

DREAMS - Fall 2023 Presenters							Oct 23-27
Presenter	Year	School	Primary Major	Project Title	Mentor/s	Division/ Institution	
Michelle Adutwum	2026	KSAS	Molecular & Cellular Biology	Dissecting the Repair Mechanisms that Maintain Lysosomal Integrity	Aakriti Jain, Roberto Zoncu	UC-Berkeley	
Arham Alam	2025	KSAS	Chemistry	Electrostatic Properties of Gold Nanoparticles Wrapped with Different Ligand Functionalizations	Xingfei Wei, Rigoberto Hernandez	KSAS	
Rajaa Alhamd	2024	KSAS	Neuroscience	Can prenatal stress develop resilience against age-related immunity activation and cognitive decline?	Lindsey Hayes	SoM	
Stefan Arseneau	2024	KSAS	Physics	Measuring The Mass-Radius Relation of White Dwarfs Using Wide Binaries	Nadia Zakamska	KSAS	
Karan Belday	2024	KSAS	Neuroscience	High Levels of Cyclohexanone Exposure Causing Perinatal Brain Injury	Yuma Kitase, Lauren Jantzie	SoM	
Joshua Berenbaum	2024	KSAS	Neuroscience	An fMRI analysis of verbal and non-verbal working memory in people with a past history of opioid dependence	Cherie Marvel	SoM	
Samuel Bronckers	2024	KSAS	Neuroscience	Axonal Projections of Layer 6 Corticothalamic Neurons in Primary Visual Cortex to the Lateral Posterior Nucleus of the Thalamus	Seong Yeol An, Solange Brown	SoM	
Jason Chen	2026	KSAS	Molecular & Cellular Biology	The MET-TWIST1 pathway regulates the key glycolytic enzyme, Hexokinase 2, METaltered NSCLC	Timothy Burns	University of Pittsburgh	
Yifei Chen	2024	KSAS	Molecular & Cellular Biology	Defining the Role of STING in the Cardiac Inflammatory Response	Ronald Vagnozzi	University of Colorado	
Seoyoon Choi	2025	KSAS	Molecular & Cellular Biology	Substrate Preferences of ERAAP vs. ERAP1 amino-peptidases in MHC-I Antigen Presentation	Adrian Martin-Esteban	SoM	
Julian Chow	2025	WSE	Chemical & Biomolecular Engineering	Electrophysiological Effects of TRPC-channel inhibition on Dystrophic Engineered Heart Tissues	Joe Criscione	SoM	
Brian Chu	2024	KSAS	Neuroscience	Comparative Characterization of Brain-Derived Extracellular Vesicle Enrichment Methods	Tanina Arab, Kenneth Witwer	SoM	
Shrey Dave	2024	KSAS	Neuroscience	DBS Outcomes Registry: A Study of Depression & Anxiety in Parkinson's Patients with DBS	Kelly Mills	SoM	
Bethel DeGracia	2025	KSAS	Public Health Studies	Community-Engaged Research in Early Childhood Home Visiting: Preliminary Findings from a Rapid Scoping Review	Allison West	BSPH	
Alp Demirtas	2026	WSE	Biomedical Engineering	Automating Growth Assay Experiments to Measure Cell Antibiotic Resistance	Abraham Stroka	Argonne National Laboratory	

Keyi Ding	2024	KSAS	Physics	Development of Machine Learning Techniques to Distinguish Giant Stars from Dwarf Stars Using Only Photometry	Rosemary Wyse, Carrie Filion	KSAS
Arjit Dogiparthi	2024	KSAS	Molecular & Cellular Biology	Prevalence of an intestinal nutrient hyperabsorption phenotype in obesity	Jennifer Foulke-Abel	SoM
Alisa Fedotova	2026	WSE	Chemical & Biomolecular Engineering	3D Micro Bioreactors for Cerebral Organoid Biocomplexity	Aishwarya Pantula, David Gracias	WSE
Jiaqi "Tina" Feng	2024	KSAS	Psychology	Investigation of Effect of Alcohol-induced Aberrant Orbitostriatal Activity in Rats' Action Selection	Yifeng Cheng, Patricia Janak	KSAS
Neel Godbole	2026	KSAS	Public Health Studies	Investigating how the germline-specific DEAD-box RNA helicase Vasa regulates Oskar protein expression	Austin Chiappetta, Tatjana Trcek	KSAS
Jan Haro	2025	KSAS	Molecular & Cellular Biology	Oxidative Damage in Single-Molecule Force Spectroscopy Studies	Christian Kaiser	KSAS
Vaughn Hernandez	2024	KSAS	Molecular & Cellular Biology	Evaluating a Novel Vancomycin-Infused Bone Graft in a Rat Model for Instrumented Lumbar Fusion	Timothy Witham, Alexander Perdomo-Pantoja	SoM
Sarah Huang	2024	KSAS	Molecular & Cellular Biology	Cardiometabolic Consequences of Obesity	Sumita Mishra	SoM
Shuqiao "Stella" Huo	2025	WSE	Computer Science	Data management and Safety Analysis of Intracortical Visual Prosthesis	Gislin Dagnelie	SoM
Katie Huynh	2024	KSAS	Public Health Studies	Performance of the Screening to Brief Intervention (S2BI)/CRAFT Tool for Identifying Substance Misuse in Adolescents and Young Adults of Color in an Urban Adult Emergency Department	Yu-Hsiang Hsieh	SoM
Kuyue "Astrid" Jiang	2024	KSAS	Neuroscience	Data management and Safety Analysis of Intracortical Visual Prosthesis	Gislin Dagnelie	SoM
Miranda Jimenez	2024	KSAS	Molecular & Cellular Biology	Sex Differences in Influenza B (IBV) Pathogenesis	Sabal Chaulagain, Sabra Klein	BSPH
Sachin Kammula	2025	WSE	Chemical & Biomolecular Engineering	Engineering a quaternary chemotherapeutic-loaded nanoparticle and developing a large-scale particle purification protocol for sustained drug-release and scalable nanoparticle production.	Yicheng Zhang, Hai-Quan Mao	WSE
Akul Kesarwani	2025	KSAS	Biophysics	Defining mechanisms for early-life inflammation in a maternal high fat diet model	Lindsey Macias, Kellie Tamashiro	SoM
Kobi Khong	2024	KSAS	Public Health Studies	Race, Residency, and Recovery: A systematic review of race, place, and drug-related health outcomes	Maura Shramko	American Institutes for Research

Arman Kian	2026	KSAS	Molecular & Cellular Biology	Delineating Factors That Shape Intestinal Eosinophil Functional Phenotypes	Lisa Spencer	University of Maryland
Davin Kim	2026	KSAS	Molecular & Cellular Biology	Characterizing EPS vs CPS: A Comparison of Cryptococcal Polysaccharide Analytical Techniques	Maggie Wear, Arturo Casadevall	BSPH
Joseph Kim	2026	KSAS	Biophysics	Decreasing HbA1c Levels Associated with Diabetes After Tadalafil (Cialis®,c) Treatment	Kitai Kim	UCLA
Divya Konduru	2024	KSAS	Public Health Studies	Parent Experiences of Care with Telemedicine: Perspectives from Spanish- and English-speaking Interviews	Helen Hughes	SoM
Robbie Kuang	2025	KSAS	Neuroscience	Effects of cannabidiol (CBD) in male and female rats during protracted opioid withdrawal	Cassie Moore	SoM
Heng-Ching "Rex" Kung	2024	KSAS	Molecular & Cellular Biology	Targeting TREM2 Immunosuppressive Macrophages in Pancreatic Ductal Adenocarcinoma after Radiation Therapy	Lei Zheng	SoM
Jasmine Lee	2024	KSAS	Neuroscience	Predicting Cognitive Outcomes after Deep Brain Stimulation Surgery in Parkinson's Disease	Kelly Mills	SoM
Jennifer Lee	2024	KSAS	Molecular & Cellular Biology	Treatment of Glioblastoma and Medulloblastoma utilizing Cisplatin-Loaded Nanoparticles	Betty Tyler	SoM
Weng I "Alisa" Leong	2026	KSAS	Neuroscience	Multi-Attribute Decision-Making Strategies on Human: Exhaustive and Filtering	Veit Stuphorn	SoM
Margaret Li	2025	KSAS	Neuroscience	Nourishing the Future: Exploring Food Insecurity Research in the Primary Care Setting	Eliana Perrin	SoM
Chloe Liang	2025	KSAS	Molecular & Cellular Biology	Single-molecule cell cycle and RNA polymerase II phosphorylation tracking with SCRIPPT for targeted drug screening in living cells	Yick Hin Ling, Carl Wu	KSAS
Jennifer Lin	2026	KSAS	Public Health Studies	Clara Cell RhoA Promotes Cockroach Allergen-Induced Airway Inflammation	Peisong Gao, Maolan Wu	SoM
Emma Liu	2025	KSAS	Neuroscience	Neuroprotectant Screening in New Zebrafish Models of Retinitis Pigmentosa	Liyun Zhang, Randi Marshall	SoM
Rongrong Liu	2024	WSE	Computer Science	Transmission Spectroscopy of Exoplanet HAT-p-14b Using Time-Series Data from JWST NIRSpec	David Sing	KSAS
Yuanmuhuang "Anna" Long	2025	WSE	Biomedical Engineering	Engineering a quaternary chemotherapeutic-loaded nanoparticle and developing a large-scale particle purification protocol for sustained drug-release and scalable nanoparticle production	Yicheng Zhang, Hai-Quan Mao	WSE
Emily Lu	2024	KSAS	Molecular & Cellular Biology	Pre-prints: Are they precedents or expedient substitutes for peer-reviewed journal publications?	Vignesh Chidambaram, Petros Karakousis	SoM

Shuming "Alan" Mao	2025	WSE	Biomedical Engineering	Generalizing Splam: cross-species benchmarking on a novel splice site predictor	Kuan-Hao Chao, Steven Salzberg	SoM
Mariana Meade	2024	KSAS	Neuroscience	Using Sensory Conflict to Understand Multimodal Integration in Egyptian Fruit Bats	Nikita Finger, Cynthia Moss	KSAS
Fred Miglo	2024	KSAS	Neuroscience	Evaluating Side Effects of Virtual Reality&nbsp;in Individuals with Tic Disorders and Anorexia Nervosa	Kesley Ramsey, Joseph McGuire	SoM
Viola Monovich	2024	KSAS	Molecular & Cellular Biology	Behavioral and Histological Characterization of Mild and Severe SMA Mouse Models	Elana Molotsky	SoM
Daniel Mousavi	2024	KSAS	Molecular & Cellular Biology	High Fiber Dietary Intervention Induces Change in Role of Faecalibacterium Prausnitzii in Gut Microbiome Ecosystem	Yan (Janie) Jiang, Aditya Mishra, Jennifer McQuade	MD Anderson Cancer Center
Istabraq Musa	2025	KSAS	Neuroscience	Lipid Nanoparticles and Small Interfering RNA targeting High mobility Group AT-Hook 2: HMGA2	Eric Raabe	SoM
Michelle Nazareth	2025	KSAS	Neuroscience	Topoisomerase 3 <sup>Î²</sup> Promotes Stability of Maternal RNA and Maintains poly(A) Length During Oocyte Aging	Seung Kyu Lee, Weidong Wang	NIH
Kevin Nguyen	2025	WSE	Biomedical Engineering	Single-molecule dynamics of early transcription elongation factors in live yeast cells	Anand Ranjan, Carl Wu	KSAS
Hyun Seo "Grace" Noh	2026	WSE	Biomedical Engineering	The Efficacy of Deep Brain Stimulation in Children with Intellectual Disbailities	Kurt Lehner	SoM
Stephanie Oh	2024	KSAS	Neuroscience	Plasticity of Cortical Excitatory Synapses in High Order Auditory Thalamus	Hey-Kyoung Lee, Gabrielle Ewall	SoM, KSAS
Annie Pan	2026	KSAS	Public Health Studies	Examining Interventions and Training to Promote Equity in Police-Community Relations: A Systematic Review	Rebecca Fix	BSPH
Virochan Pandit	2026	WSE	Applied Math & Statistics	Finding the Fairest Voting System using Likelihood Analysis	Joseph Cutrone	KSAS
Albert Park	2024	KSAS	Molecular & Cellular Biology	Variation of Alpha Synuclein Aggregation in KO Mice Models	Tae-In Kam, Jae-Jin Song	SoM
Alison Park	2025	KSAS	Molecular & Cellular Biology	Potent Immunoregulatory Function of Vertebral Bone Adherent Mesenchymal Stem Cells in VCA and SOT	Byoung Chol Oh, Gerald Brandacher	SoM
Rishy Peela	2024	KSAS	Neuroscience	Endocytic machinery primed at neuronal synapses through enrichment of PI4P and PS at endocytic zones	Shigeki Watanabe	SoM
Alain Phung	2024	KSAS	Molecular & Cellular Biology	Ribosomal Proximity During Stress Granule Assembly Activates ZAKÎ±	Sergi Regot	SoM
Cristina Pontaza	2024	KSAS	Molecular & Cellular Biology	Neutrophil-intrinsic TNF Receptor Signaling Orchestrates Host Defense Against Staphylococcus aureus	Christine Youn	SoM

Martina Pozzi	2024	KSAS	Molecular & Cellular Biology	Investigating the Effect of Ribosomal RNA Mutations on Stability and Translation	Kamena Kostova, Zachary Stolp	WSE
Panwa Promtep	2025	WSE	Chemical & Biomolecular Engineering	Investigating gene expression differences due to long-term adaptation to high bicarbonate concentrations in <i>Methylobacterium alcaliphilum</i>	Kent Rapp, Michael Betenbaugh	WSE
Melodie Quan	2024	KSAS	Behavioral Biology	Do humans have two cognitive systems for reasoning about other people's beliefs?	Christopher Krupenye	KSAS
Sabahat Rahman	2025	WSE	Biomedical Engineering	Developing a Strategy to Knock Out Hypertrophy-Associated Genes in Bone Marrow Stromal Cells	Kathryn Futrega, Pamela Robey	NIH
Xinyi "Cindy" Ren	2024	KSAS	Molecular & Cellular Biology	Investigating the Role of SREBP Pathway in Antitumor Immunity	Casie Kubota	SoM
Matthew Rodgers	2024	KSAS	Molecular & Cellular Biology	Somatic stem cells prevent niche hypertrophy via ESCRT-mediated signaling	Mara Grace, Erika Matunis	SoM
Janice Roh	2024	KSAS	Psychology	Exploring the Link Between Perceived Infertility and Relationship Satisfaction	Jeff Bowen	KSAS
Krishna Sargur	2024	WSE	Biomedical Engineering	3D Microfluidic Spatial Model of the Blood Brain Barrier and its Application to Stroke Models	Lily Liang	WSE
Aanya Shahani	2024	KSAS	Neuroscience	Treatment of Brain Tumors Using Cisplatin-Loaded Cyclodextrin Nanoparticles	Betty Tyler	SoM
Neha Skandon	2025	KSAS	Molecular & Cellular Biology	Using Latent Class Analysis to Examine Adolescent Polysubstance Use Patterns: A Systematic Review	Jennifer Ellis, Andrew Huhn	SoM
Sophia Stryjewski	2025	KSAS	Molecular & Cellular Biology	The role of microglia in retinal ganglion cell regeneration	Nimisha Krishnan, Jeff Mumm	SoM
Julie Suconic	2024	KSAS	Neuroscience	Clinical Biomarkers for Vascular Cognitive Impairment and Dementia (VCID) and Alzheimer disease (AD)	Hanzhang Lu	SoM
Akaash Suresh	2024	KSAS	Neuroscience	The Role of Agency in Memory Retention: A Comparative Analysis using Choose Your Own Adventure Paradigm	Janice Chen	KSAS
Ethan Tzen Ern Tan	2025	KSAS	Medicine, Science & the Humanities	Chinese Restaurants as Sites of Immigrant Life in 20th Century Baltimore	H. Yumi Kim	KSAS
Jennifer Tang Cabrera	2025	KSAS	Neuroscience	Interleaved M-CSWV and Electrophysiological Recording using MAVEN	Kendall Lee	Mayo Clinic
Alexander Tinana	2025	WSE	Materials Science & Engineering	Development of a stimulated grip strength assay for quantitative assessment of paralytic effect of neurotoxin	Thomas Harris, Chenhu Qiu, Hai-Quan Mao	WSE
Spencer Uggla	2024	KSAS	Neuroscience	Identification of Interneurons Involved in Phrenic and Biceps Muscle Motor Activity	Tatiana Bezdudnaya	Drexel University

Akul Umamageswaran	2024	KSAS	Molecular & Cellular Biology	Regulation of methylation in ribosomal DNA	Yana Blokhina, Abigail Buchwalter	UCSF
Maria Vabson	2024	WSE	Environmental Engineering	Investigation of Aging on the Radiative Properties of Aerosols in Los Angeles	Andreas Beyersdorf, Ana Deegan	California State University
Zimo "Lydia" Wan	2025	KSAS	International Studies	Stories of Slavery & Freedom: Searching for Quaker Manumissions in Maryland	Sydney Van Morgan	KSAS
Daniel Wang	2026	WSE	Biomedical Engineering	Creating a Decoding Tool to Identify Neural Correlates of Behavior: A Decision-Making Case Study	Daniel Dorman, Sridevi Sarma	WSE
Ethan Wang	2024	KSAS	Public Health Studies	Dual Sensory Loss and Cognitive Function in India	Jennifer Deal	BSPH
Gavin Wang	2026	KSAS	Physics	A Blind Search for Transit Depth Variability with TESS	Nestor Espinoza	KSAS
Qingxi Wang	2026	KSAS	International Studies	Stories of Slavery & Freedom: Searching for Quaker Manumissions in Maryland	Sydney Van Morgan	KSAS
Sixiang "Maggie" Wang	2025	KSAS	Molecular & Cellular Biology	Single-molecule cell cycle and RNA polymerase II phosphorylation tracking with SCRIPPT for targeted drug screening in living cells	Yick Hin Ling, Carl Wu	KSAS
Sixiang "Maggie" Wang	2025	KSAS	Molecular & Cellular Biology	Cellular Reconstitution of Immune Cell Organelles for Synthetic Cellular Biology	Joshua Doloff	SoM
Thomas "Hardy" Williams	2024	KSAS	International Studies	Stories of Slavery & Freedom: Searching for Quaker Manumissions in Maryland	Sydney Van Morgan	KSAS
Alexandra Wong	2024	KSAS	Public Health Studies	Contextualizing Mid 20th Century Efforts to Alleviate Pediatric Hearing Healthcare Disparities in Baltimore	Amanda Lauer	SoM
Charles Wu	2026	KSAS	Molecular & Cellular Biology	Investigating asymmetric cell division in mammalian spermatogonial stem cells	Binbin Ma, Xin Chen	KSAS
Jasmine Wu	2025	KSAS	Molecular & Cellular Biology	Inhibition of SLC13A5 as a Potential Osteoporosis Prevention	Naomi Dirckx	University of Maryland
Yi "Shirley" Xie	2025	KSAS	Public Health Studies	Demographic and Clinical Characteristics of Persons Engaged in Opioid/Cocaine Co-use While Receiving Methadone or Buprenorphine Treatment for Opioid Use Disorder	Jennifer Ellis, Kelly Dunn	SoM
Lance Xu	2027	WSE	Biomedical Engineering	Advanced Age Predicted Increased Susceptibility to Attribute, Goal, and Risky Choice Framing in Negative Frame Valences		
Yue "Johnny" Yang	2024	WSE	Applied Math & Statistics	Can a Novel Mixed Reality-Based Simulation App, Developed for Virtual Reality Headsets, Effectively Prepare Patients for an MRI Experience?	Christoph Leuze	Stanford

Jena Yi	2024	KSAS	Molecular & Cellular Biology	GDF15 as a possible biomarker for doxorubicin induced cardiotoxicity	Kathleen Gabrielson	SoM
Hannah Yun	2024	KSAS	Neuroscience	English Braille Recognition: Factors and the Effect of Expertise	Marina Bedny	KSAS
Dyllan Zhou	2024	KSAS	Neuroscience	Non-Quantal Transmission from Type I Hair Cell is Sufficient to Maintain Gaze Stabilization But Not Gravity Perception	Soroush Sadeghi	SoM

DREAMS - Spring 2023 Presenters						April 16-22
Presenter	Year	School	Primary Major	Project Title	Mentor/s	Division/ Institution
Michael Ahmadi	2023	KSAS	Molecular & Cellular Biology	$\gamma\delta$ T Cell-Intrinsic IL-1R Promotes Survival During Staphylococcus aureus Bacteremia	Yulia Wang	SoM
Taha Ahmedna	2023	KSAS	Molecular & Cellular Biology	The Role of $\gamma\delta$ T-lymphocytes in Glioblastoma: Current Trends and Future Directions	Jordina Rincon-Torroella	SoM
Nathalie Akbari	2023	KSAS	Public Health Studies	Evaluation of Impact of Mental Health Trainings -Trainees Knowledge and Insights 3-9 months after Mental Health First Aid and Trauma Informed Care Trainings	Lee Bone	BSPH
Joseph Alvarez	2023	KSAS	Molecular & Cellular Biology	The physiological conditions governing fold-switching in Ga95 E14G	Vincent Hilser	KSAS
Jordan Amato	2024	KSAS	Neuroscience	Deficits in memory retrieval in mouse models of Alzheimer's disease	Andrea Santi	KSAS
Yanisa "Belle" Angkanapiwat	2025	WSE	Biomedical Engineering	Haptic Touch 2	Arik Slepian	WSE
Ariana Arce Montalvo	2026	KSAS	Molecular & Cellular Biology	The Role of the Regulatory Small RNA SHOXi in Chronic Exposure to Oxidative Stress in Haloferax volcanii	Jocelyn DiRuggiero	KSAS
Daniel Ardila	2024	WSE	Civil Engineering	Emergency Transfer Optimization in Kakamega County, Kenya	Tak Igusa, Meibin Chen	WSE
Rishi Bachani	2023	KSAS	Neuroscience	Effects of Rhythm on Visual Working Memory	Susan Courtney	KSAS
Maansi Barnwal	2024	KSAS	Public Health Studies	Emotion Dysregulation and ADHD Diagnosis in Childhood Predicts Difficulties with Social Skills in Adolescence	Stewart Mostofsky, Keri Rosch, Alyssa DeRonda	SoM, KKI
Sanya Bawa	2024	KSAS	Public Health Studies	The intensity of Guideline Directed Medical Therapy (GDMT) in Heart Failure Patients in an Outpatient Community Clinic	R. Kannan Mutharasan	Northwestern University
Louisa Benatovich	2023	KSAS	Medicine, Science & the Humanities	The Foot and Society: An Analysis of Podiatry in the United States	Ahmed Ragab	SoM
Rebekah Berhane	2023	KSAS	Molecular & Cellular Biology	Impact of Ribosomal Collisions and Ribosomal Protein L9 on mRNA Frameshifting	Rachel Green	SoM
Raj Bhatt	2024	KSAS	Molecular & Cellular Biology	3D Skin and Vasculature Phantom Fabrication for Optical Imaging	Ishan Barman	WSE
Keerti Boyapati	2024	KSAS	Molecular & Cellular Biology	SLC38A3 promotes breast cancer metastasis via Gsk3 $\beta$ / $\beta$ -catenin/EMT pathway	Kristine Glunde	SoM



Stephanie Brown	2023	WSE	Chemical & Biomolecular Engineering	Investigation of chemical additives leached from naturally weathered plastic water bottles	Carsten Prasse, Matthew Newmeyer, Casey Smith	WSE, BSPH, KSAS
Fidel Cai	2024	KSAS	Molecular & Cellular Biology	Inducing Double-Stranded Breaks in Pancreatic Cancer Cells to Promote Chromosomal Instability	Selina Teh	SoM
Sydney Cantrell	2023	KSAS	Psychology	Exploring Psychological & Psychiatric Factors in Youth with Tic Disorders	Joey Ka-Yee Essoe	SoM
Jennie Cao	2023	KSAS	Molecular & Cellular Biology	A combination of MYC and class IIA HDAC inhibition enhances anti-tumor effects against non-small cell lung cancer	Stephen Baylin	SoM
Austin Carmichael	2024	KSAS	Molecular & Cellular Biology	The Role of Microglial LAG3 in Parkinson's Disease	Xiuli Yang	SoM
Mark Cassidy	2024	KSAS	Molecular & Cellular Biology	Determining the Stoichiometry of the Synaptonemal Complex in C. elegans	Brenda Cesar	KSAS
Rupasri Chalavadi	2024	KSAS	Neuroscience	Proofreader Evaluation and Analysis toolKit (PEAK) for Nanoscale Connectomics	William Gray-Roncal, Justin Joyce, Victoria Rose	APL
Chun Hei "Ryan" Chan	2023	WSE	Biomedical Engineering	Transient Programming Promotes Rejuvenation of Murine Bone Forming Stromal Cells	Ray (Yu Hao) Cheng, Patrick Cahan	SoM
Alexandria Chang	2023	KSAS	Psychology	Exploring Psychological & Psychiatric Factors in Youth with Tic Disorders	Joey Ka-Yee Essoe	SoM
Mathew Chaves	2026	KSAS	Neuroscience	The Role of SAMP Proteins in Haloferax volcanii	Jocelyne DiRuggiero	KSAS
Austin Chen	2025	KSAS	Molecular & Cellular Biology	Investigating Human Perivascular Stem Cell Diversity for Improved Skeletal Tissue Regeneration	Mario Gomez-Salazar, Aaron James	SoM
Madeline Cheshire	2023	KSAS	Neuroscience	Identifying the Neural Correlates of Narrative Lingering: Default Mode Network Contribution	Christopher Honey	SoM
Ian Chiu	2023	KSAS	Molecular & Cellular Biology	Investigating Interactions between Inflammatory Associated Fibroblasts (IAF) Conditioned Media and Colon Epithelial Cells in Inflammatory Bowel Disease	Yi Dong	SoM
Youngjin "Damon" Choi	2023	KSAS	Neuroscience	Axo-axonic inhibition by chandelier cells mediate an adaptive behavioral control motif in motor learning.	Kanghoon Jung	SoM
Amber Chou	2023	KSAS	Molecular & Cellular Biology	Arrestin-like protein influences several aspects of Drosophila physiology	Nichole Broderick	KSAS
Hannah Collins-Doijode	2023	KSAS	Medicine, Science & the Humanities	Abortion Availability and Accessibility in Hawai'i	Carolyn Sufrin, Nicole Labruto	SoM, KSAS
Kristen Corlay	2024	WSE	Civil Engineering	Earthquake Risk in Mexico City		

Colt Crain	2023	KSAS	Molecular & Cellular Biology	Examining the lineage autonomous role of $\beta$ 3-integrin in muscle regeneration	Chen-Ming Fan	CIW
Ria Datwani	2023	KSAS	Molecular & Cellular Biology	Outcomes of Rapid Clinical Exome Sequencing for Critically Ill Patients in a Tertiary Care Center	Joann Bodurtha	SoM
Ria Datwani	2023	KSAS	Molecular & Cellular Biology	Stigma Against Consensually Non-Monogamous Relationships: A Moral Foundations Perspective	Dylan Selterman	KSAS
Sayuni "Sai" Dharmasena	2024	WSE	Biomedical Engineering	The Heart of the Machine: Understanding the Prevalence, Psychology and Ethical Implications of AI-Human Intimacy		
Isaac Diaz	2023	WSE	Chemical & Biomolecular Engineering	Fabrication of 2D Material Solar Cells Backed by Sentaurs TCAD	Susanna Thon	WSE
William Diaz	2024	WSE	Computer Science	Shape Discrimination using Video to Stimulation Software for Intracortical Visual Prosthesis (ICVP)	Gislin Dagnelie	SoM
Naomi Donovan	2023	KSAS	Neuroscience	Preventing Progressive Hearing Loss in Common Transgenic Mouse Lines	Travis Babola	SoM
Nicholas Doupsas	2024	KSAS	Neuroscience	Music and 40Hz Auditory Stimulation: A Novel Treatment for Alzheimer's Disease?	Susan Courtney, Junxin Li	KSAS
Cecilia Doyle	2023	WSE	Civil Engineering	Emergency Transfer Optimization in Kakamega County, Kenya	Tak Igusa, Meibin Chen	WSE
Asha Duhan	2023	KSAS	Neuroscience	Identifying protein plasma biomarkers as a novel method for diagnosing brain injury, measuring disease progression and assessing treatment response in children with sickle cell disease	Eboni Lance	SoM, KKI
Benjamin Eke	2023	KSAS	Molecular & Cellular Biology	Human Milk Oligosaccharides Attenuate Brain Inflammation in Mouse Brain Organoid Models of Necrotizing Enterocolitis	David Hackam, Chhinder Sodhi, Raheel Ahmad	SoM
Darrell Fan	2024	KSAS	Molecular & Cellular Biology	Effects of the adenosinergic pathway on properties of IL-13R $\alpha$ 2 CAR-T cells in targeting human glioblastoma	Hernan Reza, Christine Brown	Beckman Research Institute
Magdalene "Maggie" Ford	2023	KSAS	Molecular & Cellular Biology	Optimism Trajectories During Early Treatment for Substance Use Disorders	Justin Strickland, Jennifer Ellis	SoM
Paul Gensbigler	2024	KSAS	Molecular & Cellular Biology	Springtime Denitrification in Oxygen Saturated Water in the Chesapeake Bay	Anand Gnanadesikan, Sarah Preheim	KSAS
Samantha Godinez	2024	KSAS	Behavioral Biology	TANGLED: Research Study for Young Women	Kamila Alexander	SoN
Garrett Goldin	2023	KSAS	Neuroscience	Testing for an Integrated Intuitive Physics-Action Planning System in the Human Brain	Jason Fischer	KSAS
Yanrui "Rena" Guo	2023	KSAS	Molecular & Cellular Biology	Cellular plasticity as regulated by H3 and H3.3 in <i>C. elegans</i>	Ryan Gleason	KSAS

Iris Gupta	2025	WSE	Computer Science	Visualization in 2D/3D Registration Matters For Assuring Technology-assisted Image-guided Surgery	Sue Min Cho	WSE
Helena Hall-Thomsen	2023	WSE	Chemical & Biomolecular Engineering	Directing uphill strand displacement with an engineered super-helicase	Pepijn Moerman, Rebecca Schulman	WSE
Elizabeth "Izze" Hedrick	2023	WSE	Materials Science & Engineering	Examining Vacancy Defects in CeO <sub>2</sub> -x for Tunable Optical and Electromagnetic Applications in Cryogenic Quantum Computing	Tyrel McQueen	KSAS
Ariamna Herrera Miret	2023	KSAS	Molecular & Cellular Biology	Purifying Regulatory Proteins Involved in Ribosome-mediated Quality Control		
Kathy Hong	2023	KSAS	Psychology	Exploring the relationship between sleep and eating disorder symptoms for adolescents with restrictive eating disorders	Colleen Schreyer	SoM
Zoe Hornberger	2023	KSAS	Molecular & Cellular Biology	TDP-43 & Cryptic Exon Pathology of Myotubes in Inclusion Body Myositis	Andrew Wilson	SoM
Zoe Hornberger	2023	KSAS	Molecular & Cellular Biology	The Hopkins Gender Identity Clinic and the Medicalization of Transness	Alicia Puglionesi	KSAS
Yi Han "Betty" Huang	2023	KSAS	Molecular & Cellular Biology	Investigation and characterization of putative short non-coding RNAs in <i>Haloferax volcanii</i>	Jocelyne DiRuggiero, Emma Dallon	KSAS
Omar Hussein	2024	KSAS	Neuroscience	NLRX1 suppresses neurodegeneration in EAE models	Marjan Gharagozloo	SoM
Yeon Gyeong "Lisa" Hwang	2023	KSAS	Molecular & Cellular Biology	Preoperative <i>Staphylococcus aureus</i> screening and decolonization in pediatric cardiac surgery patients	Aaron Milstone	SoM
Adrtian Ibanez	2024	KSAS	Molecular & Cellular Biology	Purification of Polycomb Repression Complex 1 (PRC1)	Sangwoo Park, Nils Benning	SoM, KSAS
Hyeunjeong "Christina" Im	2024	KSAS	Molecular & Cellular Biology	Exploring How Cells Randomly Choose Fates in the <i>Drosophila</i> Eye	Robert Johnston	KSAS
Divya Inaganti	2024	KSAS	Neuroscience	Visual Psychophysics in Ferrets	Kristina Nielsen	SoM
Ayaka Inoki	2023	KSAS	Molecular & Cellular Biology	Expansion and specification of the ancient SNAPc transcriptional complex in <i>C. elegans</i> small RNA biogenesis	Lars Benner	KSAS
Sithmi Jayasundara	2023	WSE	Biomedical Engineering	A 3D Haptic Piano for Stroke Recovery	Jeremy Brown	WSE
Jordan Jiao	2023	KSAS	Public Health Studies	Exploring a Novel Localization Expression Tag for Use in the DuTrAC Model	Jie Xiao, Frances Harris	SoM
Dana Kachman	2024	WSE	Electrical Engineering	Designing New Inverted Colloidal Quantum Dot Solar Cells for Flexible Applications	Susanna Thon, Dhanvini Gudi, Arlene Chiu	WSE
Tae Kyung "Aaron" Kakazu	2023	KSAS	Molecular & Cellular Biology	Senolytics Offer Protection Against Cognitive Impairment, Blood-brain Barrier Destruction, Cellular Metabolic Dysfunction, and Brain Atrophy in P301S Tau Mice Models	Minmin Yao	SoM

Vaishnavi Karanam	2023	KSAS	Molecular & Cellular Biology	Studying the Effects of Cofilin-1 Modulation on Mitochondrial Morphology and Cellular Energetics in Human Bronchial Epithelial Cells	Ramana Sidhaye	SoM
Kush Kataria	2024	KSAS	Chemistry	Ionic MOFs (Metal-Organic-Frameworks) for Enhanced Low Temperatures Performance of Lithium-Sulfur Batteries	Sara Thoi	KSAS
Erica Kent	2023	KSAS	Neuroscience	Investigating Norrin signaling in synaptic development and maintenance	Emily Thompson	SoM
Christopher Khoury	2024	WSE	Electrical Engineering	PbS Quantum Dot Phototransistors Incorporating 2D Materials	Susanna Thon	WSE
Arman Kian	2026	KSAS	Molecular & Cellular Biology	Investigating the Role of Rqc2 in Archaeal Translation	Jocelyne DiRuggiero	KSAS
Joseph Kim	2026	KSAS	Biophysics	Simulating Basic Chemical Reactions Through A Novel Chemical Drawing Program		
Matthew Kleiman	2023	KSAS	Molecular & Cellular Biology	Investigating the Oxidative Stress Response of Haloferax Vocanii	Sadhana Chidambaran, Jocelyne DiRuggiero	KSAS
Nicole Korinetz	2025	WSE	Chemical & Biomolecular Engineering	Hydrophobic Collapse of Alkanes in Water		
Tanvi Kosuri	2024	KSAS	Public Health Studies	Exploring Psychological & Psychiatric Factors in Youth with Tic Disorders	Joey Ka-Yee Essoe	SoM
Sumasri Kotha	2024	KSAS	Neuroscience	Investigating the spatial extent of cortical plasticity using immediate early gene expression profiles	Hey-Kyoung Lee	SoM
Diya Kulkarni	2024	KSAS	Public Health Studies	Urethra Sparing in Women at the Time of Cystectomy: Retrospective Comparison of Cystectomies with and without Urethrectomy	Sonia Kamanda	SoM
Swati Kumar	2024	KSAS	Neuroscience	The Therapeutic Potential of NLY01, a Novel Glucagon-like Peptide-1 Receptor Agonist, in Cuprizone-Induced Demyelination Models	Marjan Gharagozloo	SoM
Audrey Lacy	2025	WSE	Biomedical Engineering	Novel High Resolution MR Imaging Improves Pre-Procedure Identification of Ablation Targets in Post-Infarct Ventricular Tachycardia	Ryan O'Hara, Natalia Trayanova	WSE
Alyssa Lee	2023	KSAS	Molecular & Cellular Biology	The Road to Recovery: Modulating Neuroma Pain after Peripheral Nerve Injury Using Agrin Nanoparticle Technology	Erica Lee, Sami Tuffaha	SoM
Bum Seok "Sean" Lee	2025	KSAS	Molecular & Cellular Biology	Elucidating the genetic basis of sialic acid O-acetylation	Nick Wyhs, Kenneth Kinzler	SoM
Guangyan "Molly" Li	2024	WSE	Biomedical Engineering	Haptic Touch 2	Arik Slepyan	WSE
Gloria Li	2025	KSAS	Public Health Studies	Exploring the neuroprotection of SBJ-S on mouse photoreceptors in vitro and in vivo light damage model	Pingwu Zhang	SoM

Jintong "Alice" Li	2024	KSAS	Physics	AI Analysis of Neural Structures in Macaque Ears	Amanda Lauer	SoM
Pamela Li	2023	KSAS	Psychology	Visual Processing Constrained by Limitations in Spatial Dynamics from Zoom Interactions	Jonathan Flombaum	KSAS
Abby Liu	2024	KSAS	Molecular & Cellular Biology	Evaluating the Effects of CXCR4i BLX and FAKi on Pancreatic Ductal Adenocarcinoma Sensitization for Anti-PD-1 Therapy	Lei Zheng	SoM
Thalia Liu	2024	KSAS	Molecular & Cellular Biology	Evaluating the Effects of CXCR4i BLX and FAKi on Pancreatic Ductal Adenocarcinoma Sensitization for Anti-PD-1 Therapy	Lei Zheng	SoM
Zixing "Peter" Liu	2023	KSAS	Molecular & Cellular Biology	Discovery of Animal Toxin-derived Therapeutic Compounds with M13 Phage Display	Benjamin Larman	SoM
Emely Loscalzo	2023	KSAS	Behavioral Biology	Kinematics of Big Brown Bats	Dimitri Skandalis	KSAS
Alyssa "Ali" Luchs	2023	KSAS	Earth & Planetary Sciences	Advancing knowledge of invasive species using community science	Katalin Szlavecz	KSAS
Vivia Lung	2024	KSAS	Neuroscience	Proofreader Evaluation and Analysis toolKit (PEAK) for Nanoscale Connectomics	William Gray Roncal, Justin Joyce, Victoria Rose	APL
Adam Luo	2024	KSAS	Neuroscience	Dissecting the spatio-molecular landscape of glioblastoma multiforme via spatially resolved transcriptomics	Eugene Shenderov	SoM
Xing Jian "Jay" Luo	2024	KSAS	Neuroscience	An epigenomics approach to chronic pain gene therapy	William Renthall	Brigham & Women's Hospital
Julian Madrigal	2024	KSAS	Psychology	Investigating Instagram Following as a Representation of Online Reciprocity and its Effect on Attraction	Jeffrey Bowen	KSAS
Lauren Maytin	2023	KSAS	Behavioral Biology	Molecular and Cognitive-Behavioral Effects of Developmental Neurotoxicity in Murine and Cerebral Organoid Models	Caroline Krall	SoM
Zaida McClinton	2023	KSAS	Neuroscience	Congenitally blind and sighted adults use causal object history to assign object colors	Marina Bedny, Judy Kim	KSAS
Madison McFarland	2023	KSAS	Molecular & Cellular Biology	Lipopolysaccharide Differential Regulation of TLR4 Signaling for Colitis Protection	David Hackam	SoM
Aashi Mendpara	2025	KSAS	Neuroscience	Big-Data Electron Microscopy for Novel Community Hypotheses: Measuring and Retrieving Knowledge (BENCHMARK)	William Gray-Roncal	APL
Yueyang "Frank" Meng	2024	KSAS	Sociology	Ocular Proof: Toxic Masculinity, Anxiety and Patriarchal Dominance in Shakespeare's The Taming of the Shrew and Othello	Sharon Achinstein	KSAS

Shafkat Meraj	2023	KSAS	Public Health Studies	Understanding the Challenges and Factors Influencing the Effectiveness of National Children's Care Systems in LMICs	Yusra Shawar, Jeremy Shiffman	BSPH
Fred Miglo	2024	KSAS	Neuroscience	Exploring Psychological & Psychiatric Factors in Youth with Tic Disorders	Joey Ka-Yee Essoe	SoM
Amanda Mitchell	2023	KSAS	Molecular & Cellular Biology	Pediatric Linkage Study: Genes Associated with the Anxiety Phenotype	Marco Grados	SoM
Mazen Mohamed	2023	KSAS	Neuroscience	Developmental and neural mechanisms of non-associative fear following a stressful experience.	Roger Clem	Icahn School of Medicine
Omar Montalvo	2023	KSAS	Neuroscience	Tools for Precise Control of Gene Knockout in Zebrafish Microglia	Jeff Mumm, James Thierer	SoM
Britney Murray	2023	KSAS	Psychology	Exploring Psychological & Psychiatric Factors in Youth with Tic Disorders	Joey Ka-Yee Essoe	SoM
Divya Nair	2024	KSAS	Molecular & Cellular Biology	Quantifying the Biological Impact of Structural Variants in the Human Genome	Stephanie Yan	KSAS
Caitlin Nalda	2023	KSAS	Public Health Studies	Reno & Redo: Advice on Home Modifications from Families with Children with Medical Complexity	Brandon Smith	SoM
Holly Nelson	2023	KSAS	History	The Gifted Consciousness: Reading Neurodivergence through Stephen Dedalus in James Joyce's <i>A Portrait of the Artist as a Young Man</i>	Leonardo Lisi	KSAS
Rubyen Nelson	2023	KSAS	Public Health Studies	Baltimore Health Narratives: Utilizing Medicine and Memoir To Better Understand Chronic Disease	Joanne Cavanaugh Simpson	KSAS
Kaitlin Ness	2024	KSAS	Molecular & Cellular Biology	DNA Binding Dynamics and Target Location Mechanism of Pioneer Factor GAF in <i>D. Melanogaster</i>	Xinyu Feng, Taekjip Ha, Carl Wu	SoM, KSAS
Benjamin Nguyen	2023	KSAS	Molecular & Cellular Biology	Evaluating the Feasibility of a Kinect-Based Telerehabilitation Platform	Preeti Raghavan	SoM
Nina Nguyen	2023	KSAS	Molecular & Cellular Biology	Modeling Pericyte Behavior Ex Vivo	Tamara McErlain, Meera Murgai	NIH, NCI
Jiwoo Noh	2025	WSE	Biomedical Engineering	Delineo: Interactive Disease Modeling	Anton Dahbura	WSE
Lily Nolan	2023	KSAS	Psychology	Microgenesis of Object Representation: A Same-Object Advantage in a Very Simple Task	Jonathan Flombaum	KSAS
Hyun Jong "Jason" Oh	2023	KSAS	Neuroscience	Examining the Role of a Mast Cell-Specific Receptor in Post-Stroke Inflammation	Xinzhong Dong	SoM
Yuseong "Nick" Oh	2024	WSE	Chemical & Biomolecular Engineering	Engineering Pan-Reactive VEGF Antagonists to Treat Neovascular Eye Diseases	Jamie Spangler	WSE
Chad Oliver	2023	KSAS	Neuroscience	Interactions between theta-gamma oscillations during human decision making tasks	Ernst Niebur, Aaron Sampson	SoM

Ekin Gunes Ozaktas	2024	WSE	Electrical Engineering	Optical Parameter Extraction for Metamaterials via the&nbsp;Nicolson-Ross-Weir Method with Phase Unwrapping	Susanna Thon	WSE
Ikshu Pandey	2024	WSE	Materials Science & Engineering	The Effect of Selenoprotein P Silencing on Microglial Extracellular Vesicle Secretion in an Alzheimer's Disease Mouse Model	Tsuneya Ikezu	Mayo Clinic
Nainika Pansari	2023	KSAS	Molecular & Cellular Biology	Investigating Instagram Following as a Representation of Online Reciprocity and its Effect on Attraction	Jeffrey Bowen	KSAS
Vinay "Vinnie" Parikh	2023	KSAS	Neuroscience	Clinical coaching to improve sleep and well-being: a pilot study	Rachel Salas	SoM
Alison Park	2025	KSAS	Chemistry	A Novel Source of Vertebral Bone Adherent Mesenchymal Stem Cells with Potent Immunoregulatory Function	Gerald Brandacher, Byoung Chol Oh	SoM
Han Yun "Daniel" Park	2024	KSAS	Psychology	Exploring Psychological & Psychiatric Factors in Youth with Tic Disorders	Joey Ka-Yee Essoe	SoM
Sooyeon Park	2023	KSAS	Neuroscience	An Analysis of Sleep Quality and Working Memory Performance Under Rhythmic Conditions	Tara Ghazi, Susan Courtney	KSAS
Dikshita Patel	2023	KSAS	Molecular & Cellular Biology	Evaluation of Impact of Mental Health Trainings - Trainees Knowledge and Insights 3-9 months after Mental Health First Aid and Trauma Informed Care Trainings	Lee Bone	BSPH
Krupal Patel	2024	WSE	Applied Math & Statistics	Proofreader Evaluation and Analysis toolKit (PEAK) for Nanoscale Connectomics	William Gray Roncal, Justin Joyce, Eric Johnson, Tori Rose	APL
Megan Pedicini	2023	KSAS	Neuroscience	Psilocybin induces changes in behavior and the intestinal microbiota in a mouse model	Zachary Cordner	SoM
Sara "Barbara" Pejic	2024	WSE	Biomedical Engineering	Developing Polymer-Metal Coatings to Control Drug Release for Osteomyelitis	Tim Weihs	WSE
Phillip Perez	2023	KSAS	Molecular & Cellular Biology	Multimodal Genome-wide Survey of Progressing and Non-Progressing DCIS	Marija Debeljak, Chris Umbricht	SoM
Shajae Pinnock	2023	KSAS	Molecular & Cellular Biology	The fight against metabolic disease: Identification of novel compounds that reduce lipoprotein level in zebrafish	Steven Farber, Daniel Kelsch	KSAS
Manasi Prashant	2024	KSAS	Neuroscience	Anticipating a Yes: Determining differences between participants who consent versus those that do not in an ongoing clinical cohort study	Michelle Johansen	SoM
Justine Prince	2023	KSAS	Anthropology	Disability/Walkability: Mapping the Accessibility of Baltimore's Streets	Valeria Procupez	KSAS
Kristin Ralston	2023	KSAS	Neuroscience	Ancillary Sleep and Healthy Aging Research for Pain	Michael Smith	SoM



Cecilia Ramirez	2023	KSAS	Behavioral Biology	Developing an In Vitro Translation System for Zebrafish	Kamena Kostova	KSAS
Estelle Richardson	2023	KSAS	Psychology	Microgenesis of Object Representation: A Same-Object Advantage in a Very Simple Task	Jonathan Flombaum	KSAS
Kristina Rinaldi	2023	KSAS	Molecular & Cellular Biology	Investigating the Relationship Between Baz Distribution and H3 Histone Density in Drosophila ISCs	Emily Zion	KSAS
Jacqueline Rittenhouse	2023	KSAS	Psychology	Singlehood Satisfaction as a Function of Life Domains	Jeffrey Bowen	KSAS
Elisa Rodriguez	2023	KSAS	Neuroscience	Analyzing Changes to the Auditory System with Respect to Aging and Noise Exposure	Amanda Lauer, Sergio Vicencio-Jimenez	SoM
Ana Rosu	2023	WSE	Biomedical Engineering	Stem Cell-Mediated Intratumoral Delivery of Theranostic Gold-Decorated Iron Oxide Nanoflowers for Prostate Cancer	Jeff Bulte, Behnaz Ghaemi	SoM
Jhanay Rowden	2024	KSAS	Molecular & Cellular Biology	Impacts of Development and Early Care on Lateral Habenula Involvement in Social Behavior	Maya Opendak	KKI
Stephanie Ruiz-Torres	2023	KSAS	Molecular & Cellular Biology	Investigating the non-canonical function of the ribosome quality control factor ZNF598 in mitotic regulation	Kamena Kostova, Tanushree Ghosh	CIW
Jooyoung Ryu	2026	WSE	Computer Science	Delineo: Interactive Disease Modeling	Anton Dahbura	WSE
Mahmoud Said	2026	WSE	Computer Science	Delineo: Interactive Disease Modeling	Anton Dahbura	WSE
Ntumba "Loic" Sangwa	2023	KSAS	Neuroscience	Cross frequency coupling of dynamic cognitive control states	Daniel Dorman	WSE
Sanchit Sanyal	2024	KSAS	Molecular & Cellular Biology	HOXC8 Knockout Reduces Cell Proliferation and Alters Cell Death and Apoptosis in Castration-Resistant Prostate Cancer	Shawn Lupold	SoM
Naeem Sbaiti	2024	KSAS	Molecular & Cellular Biology	Adrenal gland-derived BDNF regulates corticosteroids and catecholamines production: implications for behavior, blood pressure and cardiac function	Jacopo Agrimi, Nazareno Paolocci	SoM
Jesica Shaffer	2023	KSAS	Molecular & Cellular Biology	Mongolochelys efremovi Cranial Morphology	Gabriel Bever	SoM
Armaan Siddiqui	2023	KSAS	Anthropology	Histology of macaque models as a pedagogical tool for cochlear histology and anatomy	Amanda Lauer	SoM
Mackenzie Simon-Collins	2023	KSAS	Public Health Studies	Alteration in ZO-1 and TNF $\alpha$ Expression in IEC18 Cells in Response to Milk or IL-12	Jennifer Liedel	Nemours Children's Health
Mariah Snelson	2024	WSE	Biomedical Engineering	The effects of chronological age on cell motility in three-dimensional microenvironments	Anshika Agrawal, Jude Phillip	WSE
Annabelle Song	2023	KSAS	Molecular & Cellular Biology	Investigating the Localization of Polycomb in the Drosophila Male Germline	Velinda Vidaurre, Xin Chen	KSAS



Hesu Song	2023	KSAS	Political Science	Counter-constructing the China Threat: A Poststructuralist Discourse Analysis of the United States-China Relationship	Renee Marlin-Bennett	KSAS
Mingyuan Song	2025	KSAS	Neuroscience	Disentangling the Effects of Social and Non-Social Early Life Stress on Pup Social Behavior	Cesar Medina	SoM
Alejandro Soto	2025	WSE	Biomedical Engineering	Synthesis and in vitro characterization of interleukin-2 polymeric micelles for local solid tumor immunotherapy	Hai-Quan Mao	WSE
Indira Summerville	2023	KSAS	Neuroscience	Effectiveness of tDCS coupled with Synonym treatment in PPA: A Case Study	Kyrana Tsapkini	SoM
Haichun "Helen" Sun	2024	KSAS	Neuroscience	Measuring and Analyzing Eye Movements of the Blind Using a Virtual Reality Headset	Gislin Dagnelie	SoM
Akash Sureshkumar	2023	KSAS	Molecular & Cellular Biology	Two Methods for Quantification of BRAFV600E Mutant Mouse-Derived Colon Organoid Growth	Shilpa Bisht	SoM
Louis "Carter" Swaby	2023	WSE	Chemical & Biomolecular Engineering	COPD epithelia have an increased fraction of phosphorylated cofilin-1	Ramana Sidhaye	SoM
Resham Talwar	2025	WSE	Biomedical Engineering	UmeedVR: A Virtual Reality Game Using Natural Language Processing and Latent Semantic Analysis for Conversation Therapy for Patients with Speech Disorders or Aphasia Post Stroke Rehabilitation		
Stacey Tang	2024	KSAS	Behavioral Biology	Evaluation of Impact of Mental Health Trainings -Trainees Knowledge and Insights 3-9 months after Mental Health First Aid and Trauma Informed Care Trainings	Lee Bone	BSPH
Natalie Thornton	2023	KSAS	Classics	An Original Method to Measure the Effects of Environmental Factors on the Extent of Degeneration in Age-Related Macular Degeneration	James Handa, Marisol Cano	SoM
Lauren Tirado	2023	KSAS	Molecular & Cellular Biology	Investigation of TCR stimulation-mediated phenotype changes in tumor-infiltrating Tregs	Kellie Smith, Arbor Dykema, Andrew Munoz	SoM, BSPH
Gabriel Tobin-Xet	2023	KSAS	Molecular & Cellular Biology	SARS-CoV-2 Vaccination Results in Increased Immune Cell Infiltration and Antibody Responses in Menstrual Effluent	Laura St Clair, Sabra Klein	BSPH
Isabelle Trentchev	2023	KSAS	Molecular & Cellular Biology	Computational Literature Review of Teamwork Focus in Healthcare Simulation	Michael Rosen	SoM
Aydin Turkay	2023	WSE	Biomedical Engineering	Functional Analysis of Network Dynamics Using Calcium Imaging to Characterize Glia-Enriched Organoids	Lena Smirnova	BSPH
Luca Valdivia	2023	KSAS	Molecular & Cellular Biology	Utilizing CRISPR-Cas9 to Knockout Murine ERAAP Sequence	J David Peske	SoM

Nina Wayne	2024	KSAS	Psychology	Exploring Psychological & Psychiatric Factors in Youth with Tic Disorders	Joey Ka-Yee Essoe	SoM
Straley "Margaret" Webb	2023	KSAS	Public Health Studies	Quantifying the Incubation Period of Tuberculosis: A Systematic Review	Sourya Shrestha, David Dowdy, Andrew Hill	BSPH
Anna "Reagan" Willis	2023	KSAS	Molecular & Cellular Biology	The association between polyamine transport, anti-tumor immunity, and disease progression in papillary thyroid cancers	R. Alex Harbison	SoM
Yuhan Wu	2024	WSE	Chemical & Biomolecular Engineering	Programmable Dynamic Self-Assembled DNA Nanostructure	Rebecca Schulman, Yanqi Jiang	WSE
Samuel Xie	2024	KSAS	Neuroscience	Examining the roles of CTSB and GADD45A on Neurogenic Skeletal Muscle Atrophy	Ruifa Mi	SoM
Darren Yang	2023	WSE	Chemical & Biomolecular Engineering	A Cloud-Based Mini-Microscopy System for Collaborative Neuroscience	Arvind Pathak	SoM
Shiimeng "Jessica" Yu	2024	KSAS	Molecular & Cellular Biology	Sensory neuron expressed TRPC3 mediates acute and chronic itch	Lintao Qu	SoM
Zhuochen Yuan	2023	KSAS	Public Health Studies	The Relationship between Strain Response and Intraocular Pressure Decrease across Five Eye Regions in Glaucoma Patients	Harry Quigley	SoM
Noah Zahn	2024	WSE	Chemical & Biomolecular Engineering	Targeted Enzyme Activity Imaging with Quantitative Phase Microscopy	Swati Tanwar	WSE
Julia Zambo	2023	KSAS	Natural Sciences Area	How Much is Too Much? The Role of Electronic Surveillance in Romantic Relationships	Jeffrey Bowen	KSAS
Ashley Zelaya	2023	KSAS	Molecular & Cellular Biology	Characterizing Long COVID-Related Fatigue in People Living with HIV compared to HIV-Seronegative People	Annie Antar	SoM
Sophia Zhai	2024	WSE	Biomedical Engineering	Interictal Intracranial EEG Single-Pulse Electrical Stimulation and Virtual Stimulation Comparison for Epileptogenic Zone Localization	Rachel June Smith, Sridevi Sarma	SoM, WSE
Bohan Zhang	2023	KSAS	Neuroscience	Automated Quantification in Mice Anterior Ventral Cochlear Nucleus	Amanda Lauer, Grace Capshaw	SoM
Maya Zhang	2024	WSE	Biomedical Engineering	Development of ELISA for Human Class II Peptide Exchange in HLA-DR Receptors	Si-Sim Kang, Jonathan Schneck	SoM
Yiqi "Claudia" Zhang	2023	KSAS	History of Art	China Collaged: Imaging Asia in Chinoiserie of the 17th-to-18th Century	Rebecca Brown	KSAS
Hanbei Zhou	2025	KSAS	Neuroscience	Event-based warping: An illusory distortion of time within events	Chaz Firestone, Ian Phillips	KSAS
Joshua Zhou	2025	WSE	Chemical & Biomolecular Engineering	Understanding Lithium Polysulfide Behavior Using Machine Learning and Molecular Dynamics	Brandon Bukowski	WSE

DREAMS - Fall 2022 Presenters							Oct 25-28
Presenter	Year	School	Primary Major	Project Title	Mentor/s	Division/ Institution	
Abigail Admase	2023	KSAS	Public Health Studies	Assessing antibiotic activity through soil sampling from the Johns Hopkins University Homewood Campus	Nichole Broderick	KSAS	
Hananeh Akbari	2023	KSAS	Molecular & Cellular Biology	ANKRD26's Pathway to Polyploidy in Chronic Liver Disease	Valentina Sladky, Andrew Holland	SoM	
Emma Ambrosius	2024	WSE	Applied Math & Statistics	Effect of Fluorinated Leaving Groups on Polymer Brush Thickness	Stephen Boyes	George Washington University	
Sofia Angel	2023	KSAS	Molecular & Cellular Biology	Forward Genetic Screen Identifies a New Mutant Allele of MTP, an Essential Protein in Lipoprotein Biogenesis	McKenna Feltes, Steven Farber	CIW, KSAS	
Akshata Balaji	2023	KSAS	Neuroscience	Longitudinal Analysis of Linguistic Decline in FTD-ALS	Chiadi Onyike	SoM	
Rebekah Berhane	2023	KSAS	Molecular & Cellular Biology	Ribosome rescue of truncated mRNAs in Bacillus subtilis	Esther Park, Allen Buskirk	SoM	
Emily Cahill	2023	KSAS	Molecular & Cellular Biology	The Efficacy of Irreversible Pan-caspase Inhibitor Q-VD-OPH as a Potential Host-Directed Immunotherapy Against Bacterial Skin Infections	Martin Alphonse	SoM	
Kareem Chambers	2023	KSAS	Neuroscience	Pharmacokinetic and Pharmacodynamic Interactions Between Cannabis Extracts and 5 Cytochrome P450 Probe Drugs	Tory Spindle, Austin Zamarripa	SoM	
Chintam "Sai" Chandan Reddy	2023	KSAS	Neuroscience	Understanding the Antidepressant Effects of Ketamine: The Role of the mGluR5-Homer1a-Pin1 Interaction	Paul Worley, Luis Gladulich	SoM	
Lucy Chang	2023	KSAS	Neuroscience	A multiple regression model of social processing during naturalistic movie viewing	Haemy Lee Masson, Leyla Isik	KSAS	
Connie Chang-Chien	2023	KSAS	Molecular & Cellular Biology	Scoliosis Surgery Classification of Post-Operative X-Ray Images using Transfer Learning and Fine-Tuning	Bardia Khosravi, A. Noelle Larson, Hilal Maradit Kremers	Mayo Clinic	
Herbert Chen	2024	KSAS	Neuroscience	Analyzing candidate genes that modulate the expression of PGC-1a in Parkinson's disease	Jie Yuan	SoM	
Claire Chen	2025	KSAS	Neuroscience	Defining the mechanisms of dysfunctional ferritinophagy in $\beta$ -propeller protein-associated neurodegeneration	Jason Chua, Sarah Stumpf	SoM	
Jamie Cheng	2024	WSE	Chemical & Biomolecular Engineering	Testing Design of Integrated Cartridge Microfluidic Device on Effectiveness of Heat Transfer and PCR Amplification	Christine O'Keefe, Jeff Wang	WSE	
Haruna Choijilsuren	2023	KSAS	Molecular & Cellular Biology	20-day Culture Increases Maturity of Embryoid-Body-Derived Kidney Organoids	Kenley Preval	UMass Chan Medical School	

Ryan Chou	2025	WSE	Biomedical Engineering	Reconstructing Surgeries: What We Can Learn From Surgeon Instrument Motion	Swaroop Vedula	WSE
Brian Chu	2024	KSAS	Neuroscience	Evaluating the Efficiency of TAP and CMS Program Implementation for Patients Facing Social Barriers to Healthcare Access	Rama Imad, Kristin Topel	SoM
Zeeshaan Chunawala	2023	KSAS	Neuroscience	Dendrimer-targeted immunosuppression of microglia reactivity promotes rod photoreceptor regeneration kinetics in the zebrafish retina	Jeffrey Mumm	SoM
Juliana Condoleo	2023	KSAS	Neuroscience	Determining the Synergistic Effect of SARS-COV-2 and Genetic Pre-Disposition to Alzheimer's Disease Pathology in hiPSC models	Jinchong Xu	SoM
Jaima Devries	2023	KSAS	Psychology	The Flying Fish Race	Nicolo Cesana Arlotti, Justin Halberda	KSAS
Alexandra DiNovi	2024	WSE	Materials Science & Engineering	Growing and Visualizing an MgZn2 Spiral Using Molecular Dynamics Simulation	Michael Falk	WSE
Thanh Doan	2025	KSAS	Public Health Studies	Factors Associated with Reproductive Health Services Utilization and Demands in Vietnamese Adolescents and Young Adults	Bach Tran	BSPH
Jessica Dure	2023	KSAS	Behavioral Biology	Hyoid Musculature of <i>Melopsittacus</i> and Vocalization Differences Across Avian Species	Amy Balanoff	KSAS
Amara Gammon	2023	KSAS	Neuroscience	Potential Modifiers of Axonal Degeneration in a Drosophila Model of Peripheral Neuropathy	Sarah Berth, Tom Lloyd	SoM
Aayush Gandhi	2023	WSE	Chemical & Biomolecular Engineering	Drug-eluting sutures for Ophthalmic Surgery	Kunal Parikh	SoM
Martina Gjyzari	2023	KSAS	Neuroscience	The relationship between stroke patients' subjective satisfaction with recovery versus objective functional measures	Elisabeth Marsh	SoM
Natalia Gonzalez	2023	KSAS	Neuroscience	Deep Brain Stimulation in Parkinson's Disease and Cognitive Trends	Kelly Mills	SoM
Rhys Gough	2023	KSAS	Neuroscience	Effects of Dopamine on Financial Loss Aversion	Aram Kim	SoM
Mia Grahm	2023	WSE	Chemical & Biomolecular Engineering	Three-Dimensional Assessment of Structural Changes Associated with the Onset of Type 1 Diabetes in Pancreatic Tissue	Ashley Kiemen, Denis Wirtz	WSE
Xinyue Gu	2024	WSE	Applied Math & Statistics	Evaluating Stromal Architecture Remodeling in Patient Tissue-Derived Tumor Organoids	Nicholas Edenhoffer, Shay Soker	Wake Forest University
Rina Helt	2023	KSAS	Molecular & Cellular Biology	Defining the dynamics of transcriptional bursting in developing Drosophila legs	Elizabeth Urban, Robert Johnston	KSAS

Annie Ho	2023	KSAS	Neuroscience	Endophilin A1 Connects Intersectin-1 Phase Dynamics to Vesicle Replenishment	Shigeki Watanabe, Tyler Ogunmowo	SoM
Emory Hsieh	2023	KSAS	Neuroscience	Ank-G Pathology in Behavior and the Brain	Juhyun Kim, Christopher Ross	SoM
Yoyo Jiang	2025	KSAS	Physics	Interface resistance of biomolecular condensates	Yaojun Zhang	KSAS
Yuan "Blanche" Jiang	2024	KSAS	Cognitive Science	Mitochondrial Stress Promotes G4-Forming Mitochondrial tRNA Fragments in Human RPE Cells	Michael Paulaitis	SoM
Maya Johnson	2024	KSAS	Neuroscience	Inhibition of TGFBR2 Signaling Re-sensitizes TMZ-Resistant Glioblastoma Cells to Therapy	Hernando Lopez-Bertoni, John Laterra	SoM
Joyce Ker	2023	KSAS	Medicine, Science & the Humanities	Dear Cancer: Oncological Implications of the Creative Writing Workshop	Dora Malech, David Yezzi	KSAS
Samuel Kho	2024	KSAS	Neuroscience	A Semiautonomous Workflow for Studying Proteasome Localization	Seth Margolis	SoM
Clara Kochendoerfer	2023	WSE	Biomedical Engineering	Engineering CAR T-Cells with a TGF- $\beta$ Inhibitor to Overcome the Immunosuppressive Tumor Microenvironment	Greg Allen, Wendell Lim	UCSF
Divya Konduru	2024	KSAS	Cognitive Science	An Update on State Legislation Supporting Menstrual Hygiene Products in US Schools: A Legislative Review, Policy Report, and Recommendations	Lucine Francis, Eliana Perrin	SoM
Lavinia Kong	2025	WSE	Biomedical Engineering	Inducing Neuronal Autophagic Flux of aSyn as a Potential Method of Treating Parkinson Disease	Jason Chua, Sarah Stumpf	SoM
Sumasri Kotha	2024	KSAS	Neuroscience	Evaluating the Efficiency of TAP and CMS Program Implementation for Patients Facing Social Barriers to Healthcare Access	Rama Imad, Kristin Topel	SoM
Shin-Pei "Melody" Lee	2023	WSE	Computer Science	Using a Computational Hippocampal Model to Categorize Phase-Dependent Stimulation Effects	Yousef Salimpour, William Anderson	SoM
Yeonjae "Angel" Lee	2023	KSAS	Neuroscience	Regulation of behavioral flexibility through brain-wide noradrenergic neuromodulation in a mouse model	Kishore Kuchibhotla	KSAS
Kennedy Leonard	2023	KSAS	Neuroscience	Assessing Changes in Hand Function Using a Grip and Lift Task After Stroke	Preeti Raghavan	SoM
Rachel Li	2023	WSE	Biomedical Engineering	Viscosity-Induced Changes in Cell Migration and Microtubule Dynamics in a Coculture Wound Healing Model	Yun Chen	WSE
Michael Liew	2023	KSAS	Neuroscience	Comparing transcriptionally-defined corticothalamic neuron types across cortical regions	Alina Spiegel, Solange Brown	SoM
Yiqi "Andrew" Liu	2023	WSE	Applied Math & Statistics	CSS1603+19: a strange cataclysmic variable	Nadia Zakamska, Hsiang-Chih Hwang, John Thorstensen	KSAS

Yiqi "Andrew" Liu	2023	WSE	Applied Math & Statistics	The Needle Internal Linear Combination: a search for primordial signal from the start of time	Tobias Marriage, Ivan Padilla	KSAS
Amy Liu	2025	KSAS	Neuroscience	An Exploration of Potential Biomarkers for Acute Traumatic Meningeal Injury	Rany Vorn	SoN
Sophie Liu	2023	KSAS	Neuroscience	ZSCAN4 knockout reduces in vitro cancer stemness in head and neck squamous cell carcinomas	Michal Zalzman	University of MD School of Medicine
Nga Laam "Vivian" Looi	2023	WSE	Computer Science	The effect of reward on movement vigor in marmoset licking	Paul Hage	SoM
Laurent Ludwig	2025	WSE	Chemical & Biomolecular Engineering	Integrated and Continuous Manufacturing of an Influenza Vaccine	Michael Betenbaugh, Bradley Priem, Justin Sargunas	WSE
Lucas Mandacaru Guerra	2024	KSAS	Physics	A study of Higgs boson couplings to photons at the Large Hadron Collider and electron-positron colliders	Andrei Gritsan	KSAS
Ankith Maremanda	2023	KSAS	Molecular & Cellular Biology	An Analysis of the Gut Phage Database	Benjamin Larman	SoM
Samuel Martin	2023	KSAS	Neuroscience	Impact of multiple competitors on neural signatures of stimulus competition in the optic tectum	Shreesh Mysore	KSAS
Meredith Mehta	2023	KSAS	Neuroscience	SPINT1 is critical to the activity of a carcinogenic bacterial enterotoxin.	Cynthia Sears, Max White	SoM
Shafkat Meraj	2023	KSAS	Public Health Studies	An Update on State Legislation Supporting Menstrual Hygiene Products in US Schools: A Legislative Review, Policy Report, and Recommendations	Lucine Francis, Eliana Perrin	SoM
Alec Merodio	2024	KSAS	Neuroscience	Drug Altered Morphology & Function of Tunneling Nanotubes (TNTs)	Minhyeok Chang, Hyungbae Kwon	SoM
Amy Mistri	2023	KSAS	Neuroscience	Evaluating the Role of Neuregulin-1 Type III in Motor Axon Development in SMA Mice	Charlotte Sumner, Lingling Kong	SoM
Daniel Mousavi	2024	KSAS	Neuroscience	Network Analysis of Gut Microbiome Throughout a Whole Foods Based High Fiber Dietary Intervention Reveals Complex Community Dynamics in Melanoma Survivors	Yan (Janie) Jiang, Aditya Mishra	University of Texas MD Anderson Cancer Center
Prianca Nadkarni	2023	KSAS	Neuroscience	Identifying the Underlying Mechanisms of Persistent Neurologic Symptoms Associated with Post Treatment Lyme Disease	Cherie Marvel	SoM
Michelle Nazareth	2025	KSAS	Neuroscience	Me & the Universe: Grounded through the Earth		
Alexander Nguyen	2023	KSAS	Molecular & Cellular Biology	Rapid and Efficient Live Zebrafish Embryo Genotyping	Jeffrey Mumm	SoM

Dylan Odell	2023	KSAS	Neuroscience	Testing the use of plyometric training to counter the effects of induced microgravity on articular cartilage health.	Chen-Ming Fan	CIW
Oluwatobi "Angel" Odukoya	2023	KSAS	Neuroscience	Utilizing CRISPR Gene Editing to Study the Interactome of Specialized, Membrane-Bound Neuro-Proteasomes (NMP)	Seth Margolis, Michael Hopkins	SoM
Sadhana Pani	2023	KSAS	Molecular & Cellular Biology	Characterizing the Effect of the CSR-1 Argonaute on C. elegans piRNA Biosynthesis	John Kim, Jessica Kirshner	KSAS
Jee-Won "Sophia" Park	2023	KSAS	Behavioral Biology	Investigating the effect of the lncRNA SMN-AS1 in a mouse model of Spinal Muscular Atrophy	Charlotte Sumner, Stephen Brown	SoM
Nicolas Rios	2024	KSAS	Neuroscience	The Role of Corticobulbar Feedback in Supporting Behavioral Flexibility	Dinu Albeanu	Cold Spring Harbor
Lia Sanchez Ramirez	2024	KSAS	Molecular & Cellular Biology	Long term capsule size dynamics of Cryptococcus neoformans follow stochastic system	Arturo Casadevall, Quigly Dragotakes	BSPH
Sreenidhi Sankararaman	2025	WSE	Biomedical Engineering	The Continued Investigation of the Role of Gene A on Regulation of Protein B for Progression of Parkinson's Disease (PD)	Jie Yuan, Ted Dawson	SoM
Masimilliano "Max" Schipani	2023	KSAS	Chemistry	Neural Mechanisms Underlying Language Development in Infants at Risk for Autism Spectrum Disorder	Rachel Reetzke	KKI
Farid Shahid	2024	WSE	Biomedical Engineering	Therapeutic potential of PRMT1 as a critical survival dependency target in multiple myeloma	Tabish Hussain, C. Marcelo Aldaz	University of Texas MD Anderson Cancer Center
Kathy Shi	2023	KSAS	Neuroscience	Emotional Modulation of Episodic Memory	Janice Chen	KSAS
Meihui "Jessica" Shi	2024	KSAS	Molecular & Cellular Biology	Ivosidenib Efficacy in Treatment-naïve IDH1mutated Lower-Grade Gliomas	David Kamson	SoM
Sonal Sinha	2023	KSAS	Neuroscience	Antigen Specificity and Location in Tumor Vaccine Efficacy	Christopher Jackson	SoM
Mingyuan Song	2025	KSAS	Neuroscience	Longitudinal Study of Neuronal Circuits in Aging through Olfactory Memory	Raul Garcia-Rosario, Perla Moreno-Castilla, Peter Rapp	NIH, NIA
Emily Sperring	2024	WSE	Environmental Engineering	The Effect of a Peer Comparison on Industrial Water Polluters	Paul Ferraro	WSE
Kwanlada Srijomkwan	2025	KSAS	Cognitive Science	Tone Assignment for English Loanwords in Thai	Colin Wilson	KSAS
Erica Stover	2024	KSAS	Writing Seminars	Adaptive Steered Molecular Dynamics (ASMD) Simulations on Proteins	Rigoberto Hernandez	KSAS
Atri Surapaneni	2025	KSAS	Public Health Studies	Proteomic Profiling of Plasma Biomarkers Following Sport-Related Concussion with and without a History of Concussion	Jessica Gill	SoN



Naranpraphai "Nupook" Suthisamphat	2025	KSAS	Public Health Studies	Limitations of Applying Behavioral Science-inspired Interventions: An Assessment of Randomized Field Experiments	Paul Ferraro	WSE
Darcy Trinco	2023	KSAS	Neuroscience	Effector Independence of Graphic Motor Plans	Michael McCloskey	KSAS
Alice Turnham	2023	KSAS	Molecular & Cellular Biology	Impacts of Artificial Aeration on the Distribution of Microbial Functional Genes	Sarah Preheim	WSE
Shruti Tyagi	2026	KSAS	Public Health Studies	Identification of Synovial Tissue Biomarkers in Late-Onset Rheumatoid Arthritis Patients		
Maria Vabson	2024	WSE	Environmental Engineering	Developing a Unit Commitment Strategy for a Microgrid	Marcial Gonzalez De Armas	Universidad Carlos III de Madrid
Isabella Vegas	2023	KSAS	Molecular & Cellular Biology	The Derivation of Trophoblast Stem Cells From TNKS/PARP-Inhibited Human Naive Embryonic Stem Cells	Ludovic Zimmerlin, Elias Zambidis	SoM
Shubha Verma	2023	KSAS	Neuroscience	Defining Distinct Regulatory Neuronal Subcircuits Within the Drosophila Evening Oscillator	Mark Wu, Matthew Brown	SoM
Balaji Vijayakumar	2024	KSAS	Neuroscience	Chorioamnionitis alters the Composition and Population Dynamics of Immune Cells in the Brain through Adulthood	Lauren Jantzie	SoM
Paige Vinch	2023	KSAS	Neuroscience	A Cross-Sectional Time Course of COVID-19 Related Worry, Perceived Stress, and General Anxiety in the Context of Post-Traumatic Stress Disorder-like Symptomatology		
XingYao "York" Wang	2023	KSAS	Molecular & Cellular Biology	Head Movements and Echolocation Behavior of Bats Tracking Moving Targets in Cluttered Environments	Cynthia Moss	KSAS
Junxiang "Jim" Wang	2023	WSE	Mechanical Engineering	Method for Robotic Motion Compensation during PET Imaging of Mobile Subjects	Peter Kazanzides	WSE
Emma Whitehead	2023	WSE	Biomedical Engineering	Immunomodulation of Macrophage Response by Oxygen-Delivering Scaffolds for Bone Regeneration	Warren Grayson	SoM
Carter Williams	2024	KSAS	Molecular & Cellular Biology	Generating AID2 Knockout Cell Lines to Investigate miRNA function	Ariane Mandlbauer	SoM
Lillian "Lily" Wilson	2023	KSAS	Molecular & Cellular Biology	The Role of N-myc downregulated gene 1 (NDRG1), a prostate metastasis suppressor gene in Ferroptosis	Sushant Kachhap	SoM
Peiyuan Xu	2023	WSE	Computer Science	Introducing a Reinforcement Learning Framework for Dynamic Baseball Scheduling	Antwan Clark, Anton Dahbura	WSE
Hannah Yamagata	2023	WSE	Biomedical Engineering	Optimizing a Carrier for Non-Invasive CRISPR-based Gene Editing	Huiyi Liang	Columbia University
Elaine Yang	2024	KSAS	Neuroscience	I Will Tell You: Dante's Inferno as a Model for Therapeutic Dialogue	Mitchell Merback	KSAS



Chuofan Yu	2024	KSAS	Molecular & Cellular Biology	Guardians of the Histones: Unraveling the Spatiotemporal Dynamics of Histone Chaperones FACT and Asf1 on a Single Molecule Level	Yick Hin Ling, Nathan Jones, Carl Wu	KSAS
Ella Zhang	2023	KSAS	Neuroscience	Investigating the structural connectivity of imitation network in children with Autism Spectrum Disorder	Deana Crocetti	KKI
Xin "Jason" Zhang	2023	WSE	Chemical & Biomolecular Engineering	In the Search for Magnetic Skyrmions: An Experimental and Computational Approach Towards the Synthesis and Characterization of Mn1-xFexP	Tanya Berry, Austin Ferrenti, Tyrel McQueen, Brandon Bukowski	KSAS, WSE
Maya Zhang	2024	WSE	Biomedical Engineering	Tumor Infiltrating Lymphocytes Have Increased Clonal Diversity After aPD-L1 and Adenosine A2AR Antagonist Treatment	Jonathan Schneck	SoM

DREAMS - Spring 2022 Presenters							Apr 19-22
Presenter	Year	School	Primary Major	Project Title	Mentor/s	Division/ Institution	
Gohta Aihara	2023	WSE	Biomedical Engineering	Substrate Stiffness Affects CD4+ T Cell Differentiation and Cytotoxicity	Ariel Isser, Joseph Choy, Jonathan Schneck	SoM	
Srihitha Akula	2023	KSAS	Molecular & Cellular Biology	The role of Malvolio, a metal ion transporter, in Salivary Gland Morphogenesis	Deborah Andrew	SoM	
Nathaniel Amoah	2022	KSAS	Biology	Investigating the Effects of LAG3 Deletion in the Microglia of Mice Models of Parkinson's Disease	Xiuli Yang, Xiaobo Mao	SoM	
Ajaykarthik Ananthakrishnan	2022	KSAS	Neuroscience	Using Artificial Intelligence to Improve Diabetic Retinopathy Screening Adherence in Pediatric Patients	Risa Wolf	SoM	
Dana Andrews	2022	KSAS	Molecular & Cellular Biology	Rescue experiments for auxin-inducible degron tagged PUF-9 RNA-binding protein in C. elegans using fertility and embryo lethality as initial measures	Amelia Alessi	SoM	
Ciara Armstrong	2022	KSAS	Molecular & Cellular Biology	The Presence of an HIV-1 Provirus Restricts CD4+ T Cell Proliferation	Robert Siliciano, Janet Siliciano, Joshua Kufera	SoM	
Jacqueline Bochkova	2023	KSAS	Molecular & Cellular Biology	Neonatal Isoflurane Anesthesia or Disruption of Postsynaptic Density-95 Protein Interactions Induced Alteration in Dendritic Spine Densities in Juvenile Mice	Roger Johns	SoM	
Yasmine Bolden	2025	KSAS	Writing Seminars	Beyond the Binary: A Performance of the Non-Linear 'Back to Africa' Archive	Jasmine Blanks Jones	Center for Social Concern	
Kriti Bomb	2022	KSAS	Public Health Studies	The Effect of Cigarette Smoke Extract on Various Brain Cell-Type Derived Extracellular Vesicles	Kenneth Witwer, Marta Garcia-Contreras	SoM	
Sarah Bortel	2023	WSE	Biomedical Engineering	Catechin Polymer Nanoparticles for Subunit Vaccine Delivery	Scott Wilson	SoM	
Sarah Bourget	2022	KSAS	Molecular & Cellular Biology	Identification of Cyclic Nucleotide produced by Lpg1739	Tamara O'Connor	SoM	
Cailey Bozic	2022	KSAS	Neuroscience	Defining Disability in the Progression of Frontotemporal Dementia (FTD)	Chiadi Onyike	SoM	
Annie Cao	2023	KSAS	Molecular & Cellular Biology	Analysis of pathological outcomes from Nusinersen treatment on patients with spinal muscular atrophy	Charlotte Sumner	SoM	
Erin Capodanno	2022	KSAS	Molecular & Cellular Biology	Development of a Calu-3 Cell Line Model for Study of the Lung Epithelium	Ramana Sidhaye	SoM	
Dana Carreno	2022	KSAS	Molecular & Cellular Biology	Loss of CTRP11 alters fasting-refeeding response and exacerbates obesity-induced insulin resistance	G. William Wong	SoM	
Miri Cazes	2022	KSAS	Behavioral Biology	Osteology and Relationships of Specimen from the Late Cretaceous of Mongolia	Amy Balanoff	KSAS	

Jeffrey Chen	2023	WSE	Biomedical Engineering	Modulation of Macrophage Polarization by Collagen Nanofiber Hydrogel Composite Leads to Pro-angiogenic Responses in Rat Subcutaneous Model	Jiayuan (Jarvis) Kong, Hai-Quan Mao	WSE
Jeffrey Chen	2023	WSE	Biomedical Engineering	Simple Methods for Preventing PDMS Drug Absorption through PDMS-PEG Additive and Drug Pretreatment	Devin Mair, Deok-Ho Kim	SoM
Eun Tack Cho	2022	WSE	Computer Science	Spatial problem-solving on manifold dynamics through neuro-topographic inference	Kanghoon Jung	SoM
Sakshi Chopra	2022	KSAS	Neuroscience	Role of VIP-expressing and SST-expressing GABAergic Interneurons in Synaptic Modulation	Soohyun Lee	WSE
Ryan Chow	2024	KSAS	Molecular & Cellular Biology	Measurement Method for Analyzing Corneal Stroma Change	Samuel Yiu, Minjie Chen	SoM
Sophia Cinquemani	2022	KSAS	Neuroscience	Investigating the Presence of Oligodendrocyte Precursor Cells (OPCs) in the Stratum Lucidum of the Hippocampus	Anya Kim, Dwight Bergles	SoM
Rene DeBrabander	2023	WSE	Biomedical Engineering	Integration of a Miniature Microscope in a Soft Prosthetic Finger	Sriramana Sankar, Nitish Thakor	SoM
Joseph Du	2022	KSAS	Molecular & Cellular Biology	Skin cell identity modulation through transplanted tissue	Sam Lee	SoM
Sreenivas Eadara	2023	KSAS	Neuroscience	Understanding the post-transcriptional mechanisms of Neuropathic pain	Mollie Meffert	SoM
Sreenivas Eadara	2023	KSAS	Neuroscience	Symbiotic Bacterium Engineering for Treatment of Coral Disease	Winston Timp, Jessica Dunleavey	WSE
Fatima Elzamzami	2023	KSAS	Molecular & Cellular Biology	Altered nuclear lamin A/C proteomes in heart and skeletal muscle of a proinflammatory (IL10-KO) mouse model of human frailty	Katherine Wilson	SoM
Isaac Epstein	2022	KSAS	Molecular & Cellular Biology	Recapitulation of PRODIGE Transformation Protocol and Phenotype Testing of LAF1 and RTA1 Knockouts	Timothy Nickels	KSAS
Amanda Ferber	2025	KSAS	Public Health Studies	Racial Disparities in Health Care Services Utilization within United States Gentrifying Neighborhoods	Roland Thorpe, Genee Smith	BSPH
Keiko Fox	2022	KSAS	Neuroscience	Novel Predictive Models for High-Value Care Outcomes Following Glioblastoma Resection	Sumil Nair, Adrian Jimenez, Debraj Mukherjee	SoM
Miao Fu	2022	KSAS	Behavioral Biology	Structure of L,D-transpeptidase CD3	Mario Bianchet	SoM
Kylie Fuller	2023	KSAS	Psychology	The Effect of Norm and Construal Activation on Instagram User's Pro-Environmental Behavior	Jeff Bowen	KSAS
Ruihan "Rachel" Gao	2023	KSAS	Neuroscience	Preclinical Testing of J147 as a Novel Therapeutic for Neonatal Hypoxic-Ischemic Encephalopathy	Qun Li	SoM
David Garib	2022	KSAS	Neuroscience	Investigating the Role of MAZ in Retinal Neurogenesis and Cell Fate Specification	Seth Blackshaw, Patrick Leavey	SoM

Priyanka Hanumaihgar	2023	KSAS	Molecular & Cellular Biology	Understanding the Calcium Dynamics of Differentiating Oligodendrocyte Precursor Cells	Tsai-Yi Lu	SoM
Nafisa Haque	2022	KSAS	Anthropology	Effects of COVID-19 pandemic social isolation on children's Theory of Mind development	Emory Davis	KSAS
Shreya Hariharakumar	2023	WSE	Biomedical Engineering	Understanding Barriers to Long-Term Survival of Transplanted RGCs for the Treatment of Optic Neuropathies	Erika Aguzzi, Thomas Johnson	SoM
Michael Harper	2022	KSAS	History of Art	Force-Lines and Fault Lines: Paradoxes of Movement, Art Historiography, and Photography during Italian Futurism's 'Classical' Period (1909-1914)	Rebecca Brown, Stephen Campbell	KSAS
Joi Haskins	2022	KSAS	Neuroscience	Microglial cannabinoid receptor type 1 mediates social memory deficits produced by adolescent THC exposure and 16p11.2 duplication	Atsushi Kamiya	SoM
Quinn Hauck	2023	WSE	Biomedical Engineering	Exploring the Usage of DNA as Data Storage	Paul Hook	WSE
Annie Ho	2023	KSAS	Neuroscience	Endophilin A1 Connects Intersectin-1 Phase Dynamics to Vesicle Replenishment	Tyler Ogunmowo, Shigeki Watanabe	SoM
Yanxiang "Jimmy" Hu	2023	WSE	Chemical & Biomolecular Engineering	Catechin Nanoparticles for Subunit Vaccine Delivery	Scott Wilson	SoM
Autumn Hughes	2022	WSE	Biomedical Engineering	A Graphical User Interface for Inanimate Training on the da Vinci Surgical System	Jeremy Brown	WSE
Angela Hussain	2022	KSAS	Molecular & Cellular Biology	The D55N mutation in Tropomyosin	Kevin Bermea	SoM
Maheen Ibrahimi	2023	KSAS	Neuroscience	Beta-Gamma Phase-Amplitude Coupling and Narrow Band Synchrony in Parkinson's Disease	Yousef Salimpour	SoM
Jiwon "Elizabeth" Im	2022	KSAS	Cognitive Science	Thought to Action: The Effect of Visual Obstruction of Words on Handwriting and Letter Stroke Directions	Michael McCloskey	KSAS
Armaan Jamal	2023	KSAS	Molecular & Cellular Biology	Investigating the role of Synaptotagmin-1 at ribbon synapses	Sebastian Markert, Shigeki Watanabe	SoM
In Kyu Jang	2022	KSAS	Neuroscience	Investigating the Role of Cerebellar Purkinje Cells in Control of the Common Marmoset Tongue	Reza Shadmehr	SoM
Samuel Jin	2022	KSAS	Neuroscience	Repurposing an Over-the-Counter Formulation of Dextromethorphan (DXM) as the first Oral, Ketamine-like Psychedelic Antidepressant: Preliminary Results and Implications	Mike Wang	SoM
Kwon Kim	2022	KSAS	Molecular & Cellular Biology	Shaping 3D geometry in tubulogenesis: Arc regulates Crumbs to determine embryonic salivary gland morphology	Ji Hoon Kim	SoM
Min Jae Kim	2022	WSE	Biomedical Engineering	Differential Phase-Targeted Stimulation Effect of Subthalamic Nucleus on Electrophysiological Markers of Parkinson's Disease	Yousef Salimpour, Pawel Kudela, William Anderson, Kelly Mills	SoM

Diana King	2022	KSAS	Neuroscience	Reelin as a Medial Temporal Lobe Marker of Age Related Cognitive Decline in Male and Female Rats	Audrey Branch	KSAS
Eryk Kokosinski	2022	KSAS	Neuroscience	Use of Compartment Locked IL-12 to Reduce Systemic Exposure in Glioblastoma Treatment	Michael Lim	SoM
Masakazu Kotaka	2023	KSAS	Molecular & Cellular Biology	Exploring mechanisms of microbial diversity	William Ludington, Robert Scheffler	CIW
Austin Larson	2024	WSE	Computer Science	Improving Global Road Transport Emissions Estimation	Derek Rollend	APL
Jay Lawrence	2024	WSE	Applied Math & Statistics	Optical techniques for investigating vortex instabilities in a stably stratified fluid	Rui Ni	WSE
Albert Lee	2023	WSE	Biomedical Engineering	Deep-learning-based de novo drug design of AKT inhibitors	Martin Pomper	SoM
Dongwoo Lee	2022	WSE	Biomedical Engineering	Synthesis of Tolerogenic Artificial Antigen Presenting Cells for Regulatory T Cell Stimulation	Jordan Green	SoM
Hojun Lee	2022	WSE	Engineering Mechanics	A Computational Method for Quantifying the Effect of Body Habitus on Cardiac Auscultation	Rajat Mittal, Jung-Hee Seo	WSE
Katharine Lee	2022	WSE	Computer Science	The ADAPT System: A Novel Gamification System for Supplementing Pediatric Physical Therapy Treatment	Amy Bastian	KKI
Ye Eun Lee	2022	KSAS	Psychology	Psychological Impact of Family Separation and Parent-Child Relationship Among Nepali Migrant Workers and Left-Behind Children: Role of Communication	Yuni Choi, Pamela Surkan	BSPH
Hantian "Maggie" Li	2023	KSAS	Molecular & Cellular Biology	The Dynamics of the Hfq C-terminal Domain and Its Role in RNA Binding	Sarah Woodson, Ana Damjanovic	KSAS
Kathleen Li	2022	KSAS	Public Health Studies	Family Health History Attitudes and Practices in East Baltimore Community Markets	Joann Bodurtha	SoM
Yukang "James" Li	2023	KSAS	Biophysics	Symbiotic Bacterium Engineering for Treatment of Coral Disease	Winston Timp, Jessica Dunleavey	WSE
Yeongseo Lim	2024	KSAS	Molecular & Cellular Biology	Developing Deep Learning Model to Detect Breast Cancer Cell Nuclei in Brightfield Images	Pei-Hsun Wu, Denis Wirtz	WSE
Eric Lin	2023	WSE	Materials Science & Engineering	Engineering an Embolization Device for Localized and Sustained Release of a Chemotherapeutic Agent	Yicheng Zhang, Hai-Quan Mao	WSE
Julia Lin	2022	KSAS	Molecular & Cellular Biology	Creating Arrays of Repeated Nucleosome Positioning Sequences	Claudia Carcamo, TJ Ha	SoM
Kevin Liu	2023	KSAS	Biology	Structure and Reactivity of a Hemoglobin from a Deep-Sea Bacterium	Juliette Lecomte, Jaime Martinez, Eric Johnson	KSAS
Carol Lu	2022	KSAS	Cognitive Science	Role of co-Occurrence Statistics in Children's Acquisition of Semantic Knowledge	Anna Fisher	Carnegie Mellon University
Carol Lu	2022	KSAS	Cognitive Science	Logic Ability Recycled for Code Comprehension in Novice Computer Coders	Marina Bedny	KSAS

Katie Lundberg	2023	KSAS	Behavioral Biology	Hippocampal BBB disruption and microglia mediate aging-associated post-operative cognitive dysfunction	Atsushi Kamiya, Yuto Hasegawa	SoM
Molly Ma	2022	KSAS	Behavioral Biology	An Evaluation of the Skeletal Hyoid Apparatus in Vocal Learning and Non-Vocal Learning Birds	Amy Balanoff	KSAS
Abby Mandalla	2022	KSAS	Neuroscience	Nectin-1 is an Entry Mediator for Varicella-Zoster Virus Infection of Human Neurons	Arun Venkatesan	SoM
Andrew Margolis	2022	KSAS	Biophysics	Nonlinear Integration of Sensory Inputs in a C. elegans Neuron	Andrew Gordus	KSAS
Shirley Marino Lee	2022	KSAS	Neuroscience	Social Communication Call Processing in the Big Brown Bat	Angeles Salles, Cynthia Moss	KSAS
Anna Mears	2023	KSAS	Psychology	Ranting vs. Reflection: Co-rumination Subtypes Differentially Predict Depressive Symptoms and Friendship Closeness	Alison Papadakis	KSAS
Karnika Mehrotra	2022	KSAS	Biology	A Preclinical Model of Chorioamnionitis: Performing Abdominal Laparotomies in Pregnant Rats	Lauren Jantzie	SoM
Vereena Metry	2023	KSAS	Molecular & Cellular Biology	Impact of a Mindfulness Intervention on PTSD Symptomology	Christopher Gowen, Cody Weston, Una McCann	SoM
Cecilia Miller	2023	KSAS	Molecular & Cellular Biology	The Role of MHC Class I and II on Oligodendrocyte Lineage Cells in the Mouse Model of Multiple Sclerosis	Riley Catenacci, Em Harrington, Peter Calabresi	SoM
Julia Modell	2024	KSAS	Psychology	Ranting vs. Reflection: Co-rumination Subtypes Differentially Predict Depressive Symptoms and Friendship Close	Alison Papadakis	KSAS
Nathan Mudrak	2022	KSAS	Molecular & Cellular Biology	Melanization in Candida auris: A Characterization and Investigation of Its Mechanism	Arturo Casadevall, Daniel Smith	BSPH
Tanvi Narvekar	2023	KSAS	Neuroscience	Investigating the Effects of Neurotransmitter NPY on Pancreatic Islet Formation and Morphology	Rejji Kuruvilla, Raniki Kumari	SoM
Holly Nelson	2023	KSAS	English	Transforming “Dreams” into Realities: The Sea as Metaphor in Langston Hughes’s The Big Sea and “Water-Front Streets”		
Andrea Newman-Rivera	2022	KSAS	Molecular & Cellular Biology	Role of the Gut Microbiome on Murine Kidney Treg and DN T Cell Metabolism	Kyungho Lee, Hamid Rabb	SoM
Princess Newton	2022	KSAS	Neuroscience	Regional White Matter Hyperintensities as Potential Markers of Preclinical Alzheimer's Disease	Anja Soldan, Corrine Pettigrew	SoM
Dennis Nguyen	2022	KSAS	Molecular & Cellular Biology	Utilization of InterSpy system to develop a synthetic neuron	Sonisilpa Mohapatra	SoM
Alex Noel	20023	KSAS	Environmental Studies	Delineo Disease Modeling	Anton Dahbura	WSE
Emilia Ochoa	2023	WSE	Computer Science	Leveraging Open Source Datasets of Public Health Indicators	Nicole Brown, Joseph Downs, Stephanie Howson	APL
Joseph Oldham	2023	KSAS	Neuroscience	Thioflavin T in-gel Staining to Study Amyloid Proteins Ex Vivo	Giulio Agnetti	SoM

Ebubechukwu "Obi" Onyinanya	2023	KSAS	Neuroscience	Constructing the Motivation Assessment for Tic Suppression (MATS): Understanding Factors that Affect Tic Severity in Adults	Joseph McGuire	SoM
Katherine Overbey	2023	KSAS	Neuroscience	Depression-related phenotypes at early stages of Abeta and tau accumulation in inducible Alzheimer's disease model: task-oriented and concept-driven interpretations	Alena Savonenko	SoM
Sananda Pai	2022	KSAS	Molecular & Cellular Biology	Mitochondrial-triggered immune responses mechanistically connect drug-induced steatohepatitis and cardiomyopathy associated with nonalcoholic steatohepatitis	Dolores Njoku	SoM
Adhith Palla	2022	KSAS	Neuroscience	The Claustrum and the Striatum: A Tale of Two Nuclei	Solange Brown	SoM
Yasheel Pandya	2022	KSAS	Public Health Studies	Family Health History Attitudes and Practices in East Baltimore Community Markets	Joann Bodurtha	SoM
Chloe Paris	2022	WSE	Applied Math & Statistics	Analyzing Personalized Mechanistic Computational Models of Menstrual Cycle Hormones	Feilim Mac Gabhann	WSE
Sundari Parise	2022	WSE	Biomedical Engineering	The ADAPT System: A Novel Gamification System for Supplementing Pediatric Physical Therapy Treatment	Amy Bastian	KKI
Angelina Park	2024	KSAS	Cognitive Science	Use of Mouse Models to Study Human Dental Phenotypes	Emily Chu	UMD: School of Dentistry
Gopi Patel	2023	KSAS	Public Health Studies	Efficacy of Catabasis-5571 as a Novel Host-Directed Therapy against Mycobacterium avium complex (MAC) Infection	Jennie Ruelas Castillo, Petros Karakousis	SoM
Shivni Patel	2023	KSAS	Public Health Studies	Examining the role of extracellular vesicles as indicators of cigarette smoke toxicity in neuronal cells	Kenneth Witwer	SoM
Megan Pedicini	2023	KSAS	Neuroscience	A translational model to explore effects of psilocybin on stress resilience	Zachary Cordner	SoM
Adriana Pena	2023	WSE	Environmental Engineering	Improving Global Road Transport Emissions Estimation	Derek Rollend	APL
Lucas Polack	2022	KSAS	Molecular & Cellular Biology	Annotations and Alignment: Creating a Precise Atlas of the Ulloborus diversus Brain	Greg Artiushin, Andrew Gordus	KSAS
Tatiana Prasad	2023	KSAS	Molecular & Cellular Biology	Antifungal Activity of Various Essential Oils	Nicole Parrish, Derek Armstrong	SoM
Hannah Pugh	2023	KSAS	Chemistry	Polysulfide Tethering In Metal-Organic Frameworks with Mesopores and Micropores	Bingqian Liu, V. Sara Thoi	KSAS
Neetika Rastogi	2022	KSAS	Neuroscience	Hippocampal neuropathological deficits, increased mortality and seizure after neonatal hypoxic-ischemia in a murine model of Alzheimer Disease	Raul Chavez-Valdez	SoM
Meghana Ravi	2022	KSAS	Molecular & Cellular Biology	The Binding Efficiency of Bispecific Antibodies to HIV Envelope Expressing HEK 293T Cells	Nathan Board, Robert Siliciano, Janet Siliciano	SoM

Deepa Ravindra	2022	KSAS	Molecular & Cellular Biology	Evaluating Non-Coding RNA-Target Interactions with Cell-Type Specificity in a Mouse Model of Fragile X Syndrome	Mollie Meffert, William Mills V, Xinbei Li	SoM
Camille Redmond	2022	KSAS	Neuroscience	Children's Use of Continuous Features While Guessing Number	Emily Sanford, Justin Halberda, Lisa Feigenson	KSAS
Rebecca Rivera	2022	KSAS	Behavioral Biology	Racial Segregation of Undergraduate Friend Groups at Johns Hopkins University	Shawntay Stocks	KSAS
William Robinson	2022	WSE	Biomedical Engineering	Electromyography Prosthetic Hand Control System, and Proposed Machine Learning Framework		
M. Carolina Rodriguez Steube	2022	KSAS	Molecular & Cellular Biology	Investigating the effect of immunosuppressants on the cytokine storm associated with COVID-19 mortality	Sylvia Sanchez, Fenna Sille	BSPH
Puru Sadh	2022	KSAS	Molecular & Cellular Biology	Examining the Protective Effects of a Healthy Microbiome using Lactobacillus Plantarum as a model in D. Melanogaster	Will Ludington	CIW
Tiara Safaei	2024	WSE	Chemical & Biomolecular Engineering	Symbiotic Bacterium Engineering for Treatment of Coral Disease	Jessica Dunleavey, Winston Timp	WSE
Pritha Saha	2022	KSAS	Neuroscience	Impact of a Mindfulness Intervention on PTSD Symptomology	Christopher Gowen, Cody Weston, Una McCann	SoM
Pritha Saha	2022	KSAS	Neuroscience	Leveraging Open Source Datasets of Public Health Indicators	Nicole Brown, Joseph Downs, Stephanie Howson	APL
Arushi Samal	2023	KSAS	Molecular & Cellular Biology	Altered nuclear lamin A/C proteomes in heart and skeletal muscle of a proinflammatory (IL10-KO) mouse model of human frailty	Katherine Wilson	SoM
Pranav Samineni	2023	KSAS	Neuroscience	Traumatic Brain Injury Changes Spinal Cord Axon Morphology	Vassilis Koliatsos, Athanasios Alexandris	SoM
Sydney Santos	2022	KSAS	Behavioral Biology	Social Needs and Dietary Patterns Among Hypertensive Black Adults with Chronic Kidney Disease	Deidra Crews	SoM
Ethan Schaffer	2023	KSAS	Molecular & Cellular Biology	Influence of Transcription Factors TFEB and TFE3 on Tuberous Sclerosis	Tamara Lotan, Kaushal Asrani	SoM
Jessica Shaffer	2023	KSAS	History	Notions of Witchcraft and Magic in the American Women's Suffrage Movement: A Visual and Spiritual Analysis	Heather Furnas	Libraries
William Shao	2022	WSE	Chemical & Biomolecular Engineering	A transferable force field for GaN crystal growth using active learning	Aaron Chen, Paulette Clancy	WSE
Cecelia Shuai	2023	KSAS	Neuroscience	Probing the Function of the Dorsal Striatum in Rats Navigating a Two-step Task Using Model-free Learning	Yifeng Cheng, Eric Garr, Patricia Janak	KSAS
Hajin Sim	2023	WSE	Applied Math & Statistics	Engineering Injectable Artificial T-Cell Stimulating Matrix Microparticles for In Vivo Activation of T Cells	Jonathan Schneck	SoM



Nordia Simmonds	2022	KSAS	Psychology	Leveraging Technological Advancements to Improve the Treatment of Trichotillomania	Joseph McGuire	SoM
Tanishk Sinha	2024	WSE	Biomedical Engineering	Optimizing Imaging Protocols to Visualize the Microvasculature of Human Sized-Bones	Warren Grayson, Allison Horenberg	SoM
Vishal Sivamani	2025	KSAS	Public Health Studies	iberia the wanderer: a reading of interstitial space, non-being, and abstraction	Jasmine Blanks-Jones	KSAS
Logan Smith	2022	WSE	Biomedical Engineering	Mechanical Testing of Vasculature: A Novel Tissue Engineering Based Approach	Lakshmi Santhanam	SoM
Mingyuan Song	2024	KSAS	Neuroscience	Effects of Social Cues in the Presence of Threat on Developing Habenula	Maya Opendak	KKI
Alejandro Soto	2025	KSAS	Biomedical Engineering	A Novel Peptide Nanodelivery System for Sustained Release of Semaglutide to Treat Type-2 Diabetes	Hai-Quan Mao	WSE
Keerti Soundappan	2023	KSAS	Molecular & Cellular Biology	Identification of Downstream Effects of Muller Cells on Epithelial Cells of the Retina During Wounding	Malia Edwards	SoM
Rebecca Ssengonzi	2022	KSAS	Molecular & Cellular Biology	The Role of Fcy and CD36 Receptor Malfunction in Parkinson's and Alzheimer's Disease	Xiaobo Mao, Xiuli Yang	SoM
Mira Stone	2022	KSAS	Medicine, Science & the Humanities	I, a Bad Gardener: A Creative Examination of South Asian American Identity		
Kaitlyn Storm	2023	WSE	Biomedical Engineering	Biomimetic Particles for Immunoengineering	Jordan Green	SoM
Victoria Subritzky Katz	2022	KSAS	Neuroscience	Information Sampling Strategies and Theta Phase Modulation of Gamma Amplitude in Multi-Attribute Decision Making	Ernst Niebur	SoM
Hanna Suh	2022	KSAS	Molecular & Cellular Biology	Investigating the efficiency of the FKBP and AID degron systems in K562 cells	Kamena Kostova	CIW
Mahmoud Summers	2022	KSAS	Molecular & Cellular Biology	Non-invasive Detection of Surgically Resectable Cancers using a PCR-based Blood Test (RealSeqS)	Christopher Douville	SoM
Sarah Syed	2023	KSAS	Neuroscience	Identifying the Role of Microglia Trogocytosis in Maintaining Excitatory Synapses	Jacqueline Griswold, Shigeki Watanabe	SoM
Claire Tan	2022	KSAS	Molecular & Cellular Biology	Constructing an Arrayed Legionella pneumophila Mutant Library to Elucidate the Role of Secreted Virulence Factors in Pathogenesis	Tamara O'Connor	SoM
Grace Tate	2022	KSAS	Neuroscience	Dopamine D1 receptor expression in auditory nerve fibers at inner hair cell synapses in the mammalian cochlea.	Elisabeth Glowatzki	SoM
Brian Trigg	2022	KSAS	Molecular & Cellular Biology	Understanding Axon Branching Through Receptor Knockout	Jakub Ziak	SoM
Chelsey Udoji	2023	KSAS	Molecular & Cellular Biology	The Role of Ras GTPase in Directed Cell Migration	Yiyan Lin	SoM
Maria Vabson	2024	WSE	Environmental Engineering	Improving Global Road Transport Emissions Estimation	Derek Rollend	APL

Anushka Vakil	2022	KSAS	Molecular & Cellular Biology	The Impact of Cocaine on Antiretroviral Transport Across the Blood-Brain Barrier	Lisa Fridman	SoM
Amy van Ee	2022	WSE	Biomedical Engineering	Characterization of dsRNA in the Skin	Luis Garza, Yingchao Xue, Mayumi Asada	SoM
Nitya Vissamsetti	2022	KSAS	Molecular & Cellular Biology	Secretion of Protein-Based Biomaterials	Stephen Fried	KSAS
Narayani Wagle	2022	WSE	Computer Science	Automated Detection of Nystagmus Using Deep Learning	Kemar Green	SoM
Caroline Wang	2022	KSAS	Public Health Studies	Characterizing Poorly Structured 3' UTR in Structure-Mediated Decay	Veronica Busa, Anthony Leung	BSPH
Natalie Wang	2024	KSAS	Neuroscience	Association of Blood-Brain Barrier Biomarkers with Postoperative Delirium in Hip Fracture Population	Esther Oh	SoM
Suyang Wang	2022	WSE	Chemical & Biomolecular Engineering	Investigating the Combined Inhibitions of PI3K and Related Kinases in Pancreatic Ductal Carcinoma	Chuan-Hsiang Huang	SoM
Zhiyan "Zyan" Wang	2023	KSAS	Neuroscience	Identifying natural transition from goal-directed to habit-like performance during sensorimotor learning in mice	Kishore Kuchibhotla, Sharlen Moore	KSAS
Aiden Willis	2022	KSAS	Molecular & Cellular Biology	Ectopic Volar Fibroblasts Induce Histologic Changes in Non-Volar Skin	Luis Garza, Sam Lee	SoM
Adam Winter	2022	KSAS	Molecular & Cellular Biology	Sex-specific Expression and Regulation of Tdrd5l in Drosophila Germ Cells	Mark Van Doren	KSAS
Michael Xiang	2022	KSAS	Chemistry	An Investigation into Alcohol and Epoxide Directed Fluorinations: Utilizing Light and Electricity to Develop Safe, Site-Selective, and Efficient Radical Fluorination Strategies for Bioorganic Molecules	Thomas Lectka	KSAS
Alice Xie	2022	KSAS	Molecular & Cellular Biology	PEERS: Using Peer Mentors to Provide Self-Care Support to Low-Income and Minority Older Adults	Jin Hui Joo, Melissa Davey-Rothwell	BSPH
Ariadni Xydia	2022	KSAS	Neuroscience	Human induced pluripotent stem cells (iPSCs) as a platform for Alzheimer's disease model	Vasiliki Machairaki	SoM
Eesha Yadav	223	KSAS	Chemistry	Development of molecular sensors and actuators to elucidate PI3K signaling.	Abhijit Deb Roy, Takanari Inoue	SoM
Yuchen Yang	2023	KSAS	Molecular & Cellular Biology	Otolith-ocular Function and Compensatory Effect of Neck Following Vestibular Loss	Amir Kheradmand	SoM
Chinat Yu	2023	WSE	Computer Science	Quest2Learn: A Gamification and Augmented Reality Approach to Advance Education	Eric Johnson, Alissa Murphy	KSAS, WSE
Monet Yuan	2022	KSAS	Molecular & Cellular Biology	Identifying Factors Responsible for Detecting Aberrant Pre-Ribosomes	Kamena Kostova	CIW
Amanda Yuen	2022	KSAS	Anthropology	In the Wake of Afghanistan: Understanding American Conceptions of the Refugee	Naveeda Khan	KSAS

David Zeng	2022	KSAS	Neuroscience	Assessing the Role of Osteopontin in Regulating Cytokine Expression Among Macrophages and Neuroinflammatory Pathways Involved in HIV-Associated Neurocognitive Disorder	Amanda Brown	SoM
Jerry Zhang	2022	WSE	Biomedical Engineering	Non-invasive, Continuous Cardiac Output Monitoring in Neonates and Infants with Congenital Heart Disease	Danielle Gottlieb Sen, Julie Shade	SoM
Jerry Zhang	2022	WSE	Biomedical Engineering	A custom-built actuator for automated, simultaneous activation of multiple e-cigarette devices	Sarah-Marie Alam El Din, Jana Mihalic, Ana Rule	BSPH
Jingyi "Jeni" Zhang	2022	KSAS	Molecular & Cellular Biology	PPTR-1 subunit in PP2A is not the degradation target of SCF in C.elegans meiotic prophase I	Joshua Blundon, Yumi Kim	KSAS
Josephine "Jojo" Zhang	2022	KSAS	Molecular & Cellular Biology	Developing Bispecific Antibodies Against Mycobacterium tuberculosis as a Model for HIV Clearance	Robert Siliciano	SoM
Wenyan "Lucy" Zhang	2022	KSAS	Molecular & Cellular Biology	Two parallel sRNA amplification pathways contribute to RNAi inheritance in C. elegans	John Paul Ouyang, Geraldine Seydoux	SoM
Yuekang Zhang	2022	KSAS	Biophysics	Molecular Landscape of Calmodulin bound to Nav1.5/Nav1.4	Mario Amzel, Sandra Gabelli	SoM
Dingjingyu Zhou	2022	KSAS	Molecular & Cellular Biology	Molecular Landscape of Calmodulin bound to Nav1.5/Nav1.4	Blake Johnson, Rong Li	SoM
Jeffrey Zhou	2022	KSAS	Molecular & Cellular Biology	Utilizing Image Analysis Techniques to Observe and Characterize Organism Behavior	Andrew Gordus	KSAS
Tianyue "Tony" Zhu	2023	KSAS	Neuroscience	A Hippocampal Place Network Model – Megamap with Variable Field Sizes and Shapes	Kechen Zhang	SoM

DREAMS - Fall 2021 Presenters						Oct 18-22
Presenter	Year	School	Primary Major	Project Title	Mentor/s	Division/ Institution
Mahnoor Abid	2022	KSAS	Molecular & Cellular Biology	What does web repairing decision making imply for web building mechanisms in Orb-Weavers?	Andrew Gordus	KSAS
Abigail Admase	2023	KSAS	Public Health Studies	Evaluating the Effectiveness of the Harriet Lane Clinic's HEDIS VBP Project	Kristin Topel, Rama Imad	SoM
Melanie Alfonzo Horowitz	2022	KSAS	Biophysics	STYK1 is a Constitutive Trimer	Kelly Karl, Kalina Hristova	WSE
Yangxi An	2024	KSAS	Public Health Studies	Acceptability of A Group Structural and Behavioral HIV Care Continuum Intervention for Community Re-Entrants in South Africa: A Qualitative Study Using the Theoretical Framework of Acceptability	Christopher Hoffmann, Jill Owczarzak	SoM
Kirtana Ananth	2022	KSAS	Neuroscience	Studying the role of the Central Amygdala in Opioid Use Disorder	Patricia Janak, Emma Chaloux-Pinette	KSAS
Joanne Baek	2022	WSE	Chemical & Biomolecular Engineering	The Role of Matrix Stiffness on Inducing Cellular Senescence in Primary Dermal Fibroblasts	Bart Starich, Denis Wirtz	WSE
Alana Barry	2022	KSAS	East Asian Studies	Summer Internship: U.S. Department of Commerce International Trade Administration Office of China and Mongolia		US Dept of Commerce
Pilar Beccar-Varela	2023	KSAS	Chemistry	Soluble Cu BIF-29 Metal-Organic Cage for Electrochemical Carbon Dioxide Reduction	Soumyodip Banerjee	KSAS
Rebekah Berhane	2023	KSAS	Molecular & Cellular Biology	Optimizing a Genetic Selection To Identify Factors Involved In Translational Quality Control In E.coli	Annabelle Campbell, Kazuki Saito	SoM
Atharva Bhagwat	2024	KSAS	Chemistry	Probing proteome-wide refoldability and identifying intrinsic disorder in S. cerevisiae	Stephen Fried, Philip To	KSAS
Emma Billings	2022	KSAS	Biology	AR-CPR DEVICE	Keith Kleinman, Therese Canares	SoM
Hritamber Chakraborty	2023	KSAS	International Studies	Strategic Consulting at Mayson-Dixon Companies		
Chintam "Sai" Chandon Reddy	2023	KSAS	Neuroscience	Studying the Interaction between mGluR and Pin1: A Mechanism Implicated in Dopamine-mediated Synaptic Plasticity	Raozhou Lin, Paul Worley	SoM
Evelyn Chang	2022	KSAS	Molecular & Cellular Biology	Comparative pre-clinical protective efficacy of liquid versus solid formulations of IBT-V02, a staphylococcal 5-component vaccine against S. aureus dermonecrotic and intramuscular infection	Yulia Wang	SoM

Natasha Charewycz	2022	KSAS	Neuroscience	Comparative pre-clinical protective efficacy of liquid versus solid formulations of IBT-V02, a staphylococcal 5-component vaccine against S. aureus dermonecrotic and intramuscular infection	Malak El Sabehe, Mostafa Borahay	SoM
Chelsey Chen	2022	KSAS	Biophysics	The role of hypoxia-inducible NARF in breast cancer stem cell enrichment and tumor metastasis	Gregg Semenza, Yongkang Yang	SoM
Szu-Chi "Jessica" Cheng	2022	KSAS	Psychology	Temperamental Dimensions of Pediatric Obsessive-Compulsive Disorder: Influence of Attention-Deficit Hyperactivity Disorder and Tourette Syndrome	Marco Grados	SoM
Sakshi Chopra	2022	KSAS	Neuroscience	SEM Measurements Underestimate Capsule Diameter for C. neoformans	Radames Cordero, Arturo Casadevall	BSPH
Sakshi Chopra	2022	KSAS	Neuroscience	Long-Term Oxygen Therapy and Portable Oxygen Management: A Congruence Study between Patient and Physician Perspectives	Jessica Dakkak, Wilson Tang	SoM
Zeeshaan Chunawala	2023	KSAS	Neuroscience	A Novel Zebrafish Model of Inducible Retinal Ganglion Cell Death Identifies Neuroprotective and Regeneration-enhancing Small Molecules	Jeffrey Mumm	SoM
Ishana Deb	2022	KSAS	Neuroscience	Sparse labeling unravels the role of H-Ras in spine formation	Hyungbae Kwon, Sarah Kruessel	SoM
Idoia Miren Dizon	2022	KSAS	Neuroscience	Brain astrocyte subpopulations in HIV-infected humanized mice with global reduction in OPN expression	Amanda Brown	SoM
Maro Doce	2022	KSAS	Neuroscience	Developmental Mechanism of Facial Recognition Deficits in Autism	Rankin Williams McGugin	Vanderbilt University
Kylie Fuller	2023	KSAS	Psychology	The Causal Role of the Auditory Cortex in Goal-Directed Sensorimotor Learning	Kishore Kuchibhotla, Celine Drieu	KSAS
Julissa Garcia	2022	KSAS	Molecular & Cellular Biology	Identifying the Epitope on Prelamin A Recognized by the 3C8 Antibody	Eric Spear, Susan Michaelis	SoM
Andrew Gausepohl	2022	KSAS	Molecular & Cellular Biology	Characterizing the Relative Abundance and Spatial Distribution of Lipids in SIV-Infected Rhesus Macaque Brain	Dionna Williams, Cory White	SoM
David Gauthier	2022	KSAS	Neuroscience	The Effects of Wing Depilation on E.fuscus	Cynthia Moss, Brittney Boubllil	KSAS
Sophia Girgenti	2022	KSAS	Neuroscience	Stroke Recovery: Mindfulness and MEG	Elisabeth Breese Marsh	SoM
Rhys Gough	2023	KSAS	Neuroscience	Association of Default Mode Network Hyperconnectivity with Comorbid Depression and Hypertension in Males	Aleksander Talishinsky, Conor Liston	Cornell University
Anya Gunewardena	2022	KSAS	Molecular & Cellular Biology	Identifying ORCO/Fruitless in Aedes aegypti and Anopheles gambiae	Andrew Hammond, Connor McMeniman	WSE, BSPH
Daniel Habib	2022	KSAS	Biophysics	Applying a Deterministic Anonymous Incentive Method to Study High School Vaping	Andrew Cherlin	KSAS

Sarah Hamimi	2022	KSAS	Neuroscience	Neonatal Erythropoietin and Melatonin Mitigates Chronic Pain in Adult Rats with Cerebral Palsy	Lauren Jantzie, Shenandoah Robinson	SoM
Yinuo Han	2022	KSAS	Neuroscience	An Improved RNA-seq analysis workflow to quantify SynGAP splicing across tissues and through development	Richard Hugarir, Ingie Hong	SoM
Jakob Heinz	2023	WSE	Biomedical Engineering	An Analysis of Population Specific Genomes	Alaina Shumate, Steven Salzberg	SoM
Elisa Herrera	2022	KSAS	Neuroscience	Evaluating the Effects of Early Exposure to Anesthesia on Neuronal Dendrites and Synapses	Swati Agarwal, Roger Johns	SoM
Ariamna Herrera Miret	2023	KSAS	Molecular & Cellular Biology	Identifying EDF1 binding sites within the bZIP domain of Jun	Marco Catipovic, Rachel Green	SoM
Bohan "Abe" Hou	2025	WSE	Computer Science	Personal Information Governance based on Behavioral Economics Theory		
Anna Hu	2022	KSAS	Psychology	Relating shared predictions to shared neural responses during narrative comprehension	Buddhika Bellana, Janice Chen	KSAS
Armaan Jamal	2023	KSAS	Molecular & Cellular Biology	Patterns and Factors Affecting Sleep Quality and Duration in Asian-Americans	Malathi Srinivasan, Lauren Eggert	Stanford Medicine
Medha Kallem	2022	KSAS	Molecular & Cellular Biology	Troubleshooting Immunohistochemistry Protocol for CRE and Caspase-3 Detection in Mouse Tissue		
Suthicha "Jessie" Kanacharoen	2022	KSAS	Molecular & Cellular Biology	Pseudocoelomic Wnt localization in coelomocyte uptake defective C. elegans mutants	Hitoshi Sawa	National Institute of Genetics
Ganghyun "Nicholas" Kim	2023	KSAS	Neuroscience	Association of posterior division MCA stroke location with populations with atrial fibrillation incidence	Andreia Faria	SoM
Sumasri Kotha	2024	KSAS	Neuroscience	Brain-specific transmembrane receptor 2 (BTTR2) as a novel mediator of tauopathy in Alzheimer's Disease	Xiaobo Mao	SoM
Sarah Kyereme	2023	KSAS	Public Health Studies	Evaluating the Effectiveness of the Harriet Lane Clinic's HEDIS VBP Project	Rama Imad, Kristin Topel	SoM
Kriti Lalwani	2022	KSAS	Neuroscience	Encoding of anxiety by neurons in the medial prefrontal cortex	Hita Adwanikar	SoM
Brian Li	2022	KSAS	Neuroscience	Optic flow cues can control hippocampal place cell activity and induce long term plasticity of the spatial network.	Manu Madhav, James Knierim	SoM
Luoyi Li	2022	KSAS	Molecular & Cellular Biology	The Spermatogonia Stem Cell Niche: Sertoli Cell as a Potential 'Influencer' for Cell Fate Determination	Binbin Ma	KSAS
Jessica Liang	2022	KSAS	Molecular & Cellular Biology	Deciphering Signaling Network Dynamics Using Massively Multiplexed Biosensor Tracking in Barcoded Cells	Chuan-Hsiang Huang	SoM

Michael Liew	2023	KSAS	Neuroscience	Determining the cellular organization of corticothalamic neurons in motor cortex	Alina Spiegel, Solange Brown	SoM
Emely Loscalzo	2023	KSAS	Behavioral Biology	Growth Hormone and/or Testosterone Trend to Reduce Vertebral Fracture Hazard Risk in Duchenne Muscular Dystrophy on Chronic Glucocorticoids	Janet Crane	SoM
Brian Lu	2022	KSAS	Neuroscience	Therapeutic Potential of Orexin Receptor Antagonists; Evidence from a rodent model of addiction	Morgan James, Jennifer Fragale	SoM
Qing Lu	2022	KSAS	Neuroscience	Assessing the Clinical Utility of the ADOS-2 Modules 1-3	Ji Su Hong	KKI
Ellie Rose Mattoon	2024	KSAS	Molecular & Cellular Biology	Can Fungal Melanin Alter Susceptibility to SonicCavitation?	Radames Cordero, Arturo Casadevall	BSPH
Shafkat Meraj	2023	KSAS	Public Health Studies	Evaluating the Effectiveness of the Harriet Lane Clinic's HEDIS VBP Project	Rama Imad, Kristin Topel	SoM
Shafkat Meraj	2023	KSAS	Public Health Studies	Hunger, Chaos, and Suffering: Revisiting the Literary Responses to the Bengal Famine of 1943		
Ritika Miryala	2022	KSAS	Neuroscience	Investigating the Effects of the Ank-G Het KO in Sensitivity to Subthreshold Stress	Shanshan Zhu	SoM
Ashley Muller	2022	KSAS	Neuroscience	The Effects of Anti-Epileptic Drugs on Lipid Values	Mackenzie Cervenka, Tanya McDonald	SoM
Ashraf Nawari	2022	KSAS	Neuroscience	Examination of Orofacial Responding and Astrocyte Density within the Prelimbic Cortex of Adolescent Female Rats Exposed to the Activity-based Anorexia (ABA) Translational Model	Matthew Hurley	SoM
Michelle Nazareth	2025	KSAS	Neuroscience	Investigating the Magnetotactic Evolution of Motile Bacteria through the Effects of a Neodymium Magnetic Field	David Deamer	UC Santa Cruz
Holly Nelson	2023	KSAS	History	A Dramatic Ethnography: Ethnographic Method as Structure in Zora Neale Hurston's Spunk and De Turkey and de Law		
Renee Nerenberg	2023	WSE	Biomedical Engineering	CAG-induced blood-brain barrier dysfunction in an isogenic iPSC model of juvenile-onset Huntington's disease	Raleigh Linville, Peter Searson	WSE
Saumya Nimmagadda	2022	KSAS	Molecular & Cellular Biology	Testing immunosuppression as a means of accelerating retinal ganglion cell regeneration in the zebrafish	Jeff Mumm, Kevin Emmerich	SoM
Merrick Ohata	2023	WSE	Applied Math & Statistics	An Approach to Identifying Problematic Game Elements	Chun Wai Liew	WSE
Lucas Perez Rivera	2022	KSAS	Molecular & Cellular Biology	Proteome Refoldability Analysis of T. Thermophilus using Limited Proteolysis Mass Spectrometry (LiP-MS)	Haley Moran, Stephen Fried	KSAS

Nainika Pansari	2023	KSAS	Molecular & Cellular Biology	Psychosocial Stress Hastens Disease Progression and Sudden Death in Mice with Arrhythmogenic Cardiomyopathy	Jacopo Agrimi, Arianna Scalco	SoM
Pritika Parmar	2022	KSAS	Neuroscience	Late deficit in PV+ interneurons in the dorsal hippocampus correlates with behavioral abnormalities after neonatal hypoxic-ischemic brain injury	Raul Chavez-Valdez	SoM
Olivia Perdigon	2022	KSAS	Psychology	Computation of exhaustivity in preverbal infants	Nicolo Cesana Arlotti	KSAS
Ying Qin	2024	KSAS	Physics	Implication on Cosmic Reionization: Mg II Emission in Low Mass Galaxies 8 billion years ago	Susan Kassir, Weichen Wang	KSAS
Zachary Reeves	2022	KSAS	Physics	Occurrence of Iron-Rich Metal-Poor Stars in Different Galactic Environments	Kevin Schlaufman, Henrique Reggiani	KSAS
Liana Savarirayan	2022	KSAS	Neuroscience	Frontal and motor connectivity differences in various subregions of the thalamus in patients with schizophrenia	Russell Margolis	SoM
Avery Seward	2022	KSAS	Behavioral Biology	PPARG in Osteoblasts Regulates Skeletal Homeostasis and Body Composition	Ryan Riddle	SoM
Sohan Shah	2022	KSAS	Neuroscience	Inhibition of CDC42 prevents cellular re-spreading and may enhance cell-based cartilage repair	Justin Parreno	University of Delaware
Amaan Siddiqui	2023	KSAS	Anthropology	Hunger, Chaos, and Suffering: Revisiting the Literary Responses to the Bengal Famine of 1943		
Neha Skandan	2025	KSAS	Public Health Studies	The Development of a Digital Intervention to Prevent the Initiation of Adolescent Opioid Misuse in School-Based Health Centers	Lynn Fiellin	Yale School of Medicine
Lakshay Sood	2023	KSAS	Biophysics	A MATLAB Software Suite for Analysis of Single-Molecule FRET Data	Arman Siddiqui, James Berger	SoM
Ananta Srivastava	2022	KSAS	Neuroscience	Identification of Neurons in the Vagus Nerve Associated with the Gut-Brain Axis	Ken Hui	SoM
Daphne Tang	2023	KSAS	Economics	U.S. Department of State Internship in the Office of Commercial and Business Affairs		US Dept of State
Katherine Torres	2022	KSAS	Neuroscience	Investigating intrinsically photosensitive retinal ganglion cell innervation of the suprachiasmatic nucleus	Alex Kolodkin, John Hunyara	SoM
Cheryl Tung	2022	KSAS	Molecular & Cellular Biology	Mitochondrial Heteroplasmy and its Association with Gene Expression in Whole Blood	Stephanie Battle, Dan Arking	SoM
Amy van Ee	2022	WSE	Biomedical Engineering	CD14 is induced by Retinoic Acid and is required for TLR3-mediated regeneration initiated by dsRNA	Luis Garza, Yingchao Xue	SoM
Kesavan Venkatesh	2024	WSE	Biomedical Engineering	Evaluating the Trustworthiness of Saliency Maps Used to Explain Deep Learning Classifications of Abnormalities on Musculoskeletal Radiographs	Jeremias Sulam, Paul Yi	WSE



Ivan Vuong	2022	WSE	Biomedical Engineering	Multi-Step Screening and Compositional Optimization of Lipid Nanoparticles for Liver-Targeted DNA Delivery	Yining Zhu, Hai-Quan Mao	WSE
Siqing Wang	2022	KSAS	Molecular & Cellular Biology	Isolation of Cryptococcus neoformans capsular polysaccharide	Maggie Wear, Arturo Casadevall	BSPH
Yinuo Wang	2022	KSAS	Economics	Personality, Gender, and Peer Gender Composition: The Mean and Interaction Effects on College Student Performance	Yujung Hwang	KSAS
Sydney White	2022	KSAS	Psychology	The Mediating Role of Cortisol Levels on the Relationship Between Trauma and PTSD, Moderated by Psychiatric Comorbidity in Veterans	Stephen Glatt	SUNY Upstate Medical University
Emma Whitehead	2023	WSE	Biomedical Engineering	Metabolic syndrome induces epigenetic changes in angiopoietin-tie2 signaling genes in swine mesenchymal stem cells	Lilach Lerman, Alfonso Eirin	Mayo Clinic
Larry Williams	2022	KSAS	Molecular & Cellular Biology	Psychosocial Stress Accounts For Increased Mortality and Cardiac Dysfunction in Arrhythmogenic Cardiomyopathy	Jacopo Agrimi, Ariana Scalco	SoM
Alexandra "Zandy" Wong	2024	KSAS	Public Health Studies	Auditory Brainstem Response Thresholding Algorithm Using Cross-Correlation of Coefficients of Adjacent Sound-Pressure Levels	Amanda Lauer, Kali Burke	SoM
Shirley Wu	2022	KSAS	Molecular & Cellular Biology	Isolation of Cryptococcus neoformans capsular polysaccharide	Elia Duh, Gianni Castiglione	SoM
Alice Xie	2022	KSAS	Molecular & Cellular Biology	On the role of necroptosis, a form of cell death, in the pathogenesis of autoimmune hypophysitis	Haroldo Rodriguez	SoM
Zepei "Kelly" Xie	2023	KSAS	Molecular & Cellular Biology	Purification, labeling, and 1-D diffusion analysis of chromatin remodeler ISW2	Carl Wu, Jee Min Kim	KSAS
Margaret "Maggie" Yang	2024	KSAS	Molecular & Cellular Biology	Defining the role of C1orf116 as a metastasis suppressor in prostate cancer	Kenneth Pienta, Sarah Amend	SoM
Ziqing Ye	2024	KSAS	Biophysics	Scoring of mRNA palindrome exposure	Siran Tian, Tatjana Trcek	KSAS
Chinat Yu	2023	WSE	Computer Science	Augmented Versus Virtual Reality in Education: An Exploratory Study Examining Science Knowledge Retention When Using Augmented Reality/Virtual Reality Mobile Applications	Eric Johnson, Alissa Murphy	SoM
Dean Zhang	2022	KSAS	Neuroscience	Localization and Antibody Binding of the Neuronal Membrane Proteasome	Seth Margolis	SoM
Qingcheng "Jessica" Zhang	2022	KSAS	Neuroscience	Investigating the role of an inhibitory midbrain nucleus in the control of spatial attention	Ninad Kothari, Shreesh Mysore	KSAS
Yuqian Zhang	2025	WSE	Electrical & Computer Engineering	A Novel, Multifunctional Tracheal Tube Based on Directive Sound Wave Monitoring Technique		
Bingying "Alice" Zhao	2023	KSAS	Molecular & Cellular Biology	Hypoxia-fate mapping Transgenic Mouse Model	Ines Godet, Harsh Oza	SoM

Lucas Zhou	2023	WSE	Biomedical Engineering	Higher Serum Cholesterol Levels Are Associated With Reduced Systemic Inflammation and Mortality During Tuberculosis Treatment Independent of Body Mass Index	Vignesh Chidambaram, Petros Karakousis	SoM
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DREAMS - Spring 2021 Presenters							Apr 22-23 Division/ Institution
Presenter	Year	School	Primary Major	Project Title	Mentor/s		
Sami Ahmad	2020	KSAS	History of Science, Medicine & Technology	Assessing Bacteria-Specific Immune Response in the Colorectal Cancer Patient Tumor Microenvironment	Franck Housseau, Drew Pardoll	SoM	
Simi Aluko	2021	WSE	Civil Engineering	Application of Foam Concrete to Low-cost, Sustainable Housing Solutions for use in urban Africa	Rachel Sangree	WSE	
Maame Amoah-Dankwah	2021	KSAS	Neuroscience	Wiring of Retinal Direction-Selective Circuits	Natalie Hamilton, Alex Kolodkin	SoM	
Ajay Ananthkrishnan	2022	KSAS	Neuroscience	The Food Systems Dashboard	Jessica Fanzo	BIB	
Christopher Anchan	2023	KSAS	Biophysics	Fourier Series Model of Mammary Organoid Branching Morphogenesis	Brian Camley	KSAS	
Katherine Armenta	2021	KSAS	Behavioral Biology	The effects of sensory hair removal on prey capture in big brown bats			
Ria Arora	2021	KSAS	Molecular & Cellular Biology	Sex Differences in Schizophrenia across the Dorsolateral Prefrontal Cortex, Hippocampus and Caudate Nucleus	Kynon Jade Benjamin, Jennifer Erwin	SoM	
Ganiyatu "Olayide" Ashiru	2022	WSE	Materials Science & Engineering	Generalizable precision medicine tools for patient cohort discovery and visualization to aid clinical decision making	Hannah Paris Cowley, William Gray-Roncal	APL	
Walee Attia	2023	WSE	Biomedical Engineering	Enabling rapid slide-free margin assessment for skin cancer treatment with a new device to flatten Mohs samples for visualization with MUSE microscopy	Nicholas Durr	WSE	
Isabelle Badzovski	2021	KSAS	Psychology	The Relationship Between Time Perception and Schizophrenia	Jonathan Flombaum	KSAS	
Sarah Baghdadi	2021	KSAS	Neuroscience	Post-operative Sleep Patterns in Children with Rett Syndrome and Cerebral Palsy after Major Orthopedic Surgery	Sapna Kudchadkar	SoM	
Dante Basile	2022	WSE	Biomedical Engineering	Simulation Guidance of Ablation Therapy for Persistent Atrial Fibrillation	Rheeda Ali	WSE	
Axel Bax	2021	KSAS	English	Machines over Mind: Computational Literary Studies and the American Gothic	Jesse Rosenthal	KSAS	
Harshit Bhasin	2023	KSAS	Biophysics	Activity Based Anorexia (ABA) results in dysfunction in mitochondrial dynamics in the brain of Sprague Dawley Rats	Timothy Moran, Kellie Tamashiro	SoM	
Rashi Bhatt	2021	KSAS	Neuroscience	Electrode 2.0: A Neural Simulation Tool for Computational Studies of Network Perturbations due to Traumatic Brain Injuries (TBI)	William Gray-Roncal, Erik Johnson	APL	
Devanik Biswas	2022	KSAS	Neuroscience	Evaluating the Biomarker Potential of c-Abl Pathway Molecules using Neuronal-Enriched L1CAM-Positive Exosomes	Saurav Brahmachari, Ted Dawson	SoM	

Kriti Bomb	2022	KSAS	Public Health Studies	Electronic Nicotine Delivery System Induced Inflammatory Responses and Related Risk of COVID-19: A Literature Review	Kenneth Witwer, Zhaohao Liao	SoM
Kiara Bowers	2021	KSAS	Neuroscience	Quantification of Cytoplasmic and Nuclear Androgen Receptors	Angelo De Marzo	SoM
Emery Buckner-Wolfson	2021	KSAS	Neuroscience	Neural Mechanisms of Anxiety Outcomes Following Traumatic Brain Injury in Mice	Juliana Popovitz, Hita Adwanikar	SoM
Claire Chen	2021	KSAS	Molecular & Cellular Biology	When Less is More: Work-up of Hypertensive Intracranial Hemorrhage	Elisabeth Breese Marsh	SoM
Liam Cheng	2021	KSAS	Neuroscience	Arteriolar Abnormalities in the Progression of Huntington's Disease	Wenzhen Duan, Hongshuai Liu	SoM
Andrew Cho	2021	KSAS	Neuroscience	Phosphorylated-S6 Expression in Sturge-Weber Syndrome Brain Tissue	Anne Comi	KKI
Jae Choi	2021	KSAS	Neuroscience	Chronic alcohol exposure impairs flexible decision-making in rats	Yifeng Cheng	KSAS
William Choi	2022	KSAS	Neuroscience	Elucidating SYNGAP Functionality From Various Protein Interactors with SYNGAP Domains	Richard Huganir, Rich Johnson	SoM
Wlma Chowdhury	2021	KSAS	Neuroscience	The Impact of Dual Antiplatelet Therapy on Stroke Recovery	Elisabeth Breese Marsh	SoM
Stephen Chu	2021	KSAS	Neuroscience	Analyzing Risky Multi-Attribute Decision Making in the Context of Multiple Gambling Options	Elisabeth Breese Marsh	SoM
Alexandra Damron	2021	KSAS	Neuroscience	Sex-dependent effects of protease inhibitors on hypothalamic-pituitary-adrenal axis in people with HIV	Leah Rubin	SoM
Brianna Dang	2021	KSAS	Neuroscience	Understanding the gut pathology in A53T Transgenic mouse model of Parkinson's Disease	Senthil Karuppagounder	SoM
Siena DeMatteo	2021	KSAS	Italian	Spring 2020 Study Abroad in Bologna, Italy		
Michael Diamreyan	2021	KSAS	Biophysics	Metagenomic study of a closed coral system: defining microbial actors	Sarah Preheim, Yixian Zheng	WSE
Jared Doan	2022	KSAS	Molecular & Cellular Biology	Effects of O-GlcNAc-modifying agents Thiamet-G and OSMI-1 on oxygen consumption parameters in H9C2 and NRVM Cells	D. Brian Foster, Kyriakos Papanicolaou	SoM
Hayden Dux	2021	KSAS	Neuroscience	Exploring the Role of Extent of Resection for Multifocal Glioblastoma	Debraj Mukherjee, Adham Khalafallah	SoM
Anirejuoritse Egbe	2022	WSE	Electrical Engineering	Automated neuron segmentation and connectivity analysis for investigating connectome-constrained subneuron computation	Brian Robinson, Justin Joyce	APL
Bruce Enzmann	2022	WSE	Materials Science & Engineering	A Biodegradable Funnel Conduit for Targeted Muscle Reinnervation	Hai-Quan Mao	WSE
Stephanie Fachiol	2021	KSAS	Neuroscience	Epidermal Growth Factor Activates the Oncogenic Transcriptional Regulator TAZ in Glioblastoma Cells	Mingyao Ying	KKI
Talia Feingold	2021	KSAS	Behavioral Biology	Enrichment Preferences of Pigtail and Rhesus Monkeys in a Laboratory Environment	Sara Flemming, Eric Hutchinson	SoM

Taskinudden Forkan	2021	KSAS	Neuroscience	Differences between children and adults in functional connectivity of the anterior cingulate cortex with the intuitive physics and social cognition areas of the human brain	Jason Fischer, Ana Navarro-Cebrian	KSAS
Sean Glaister	2022	WSE	Biomedical Engineering	A Computational Model to Predict ICU Readmission	Robert Stevens, Han Kim	SoM
Samuel Gold	2021	KSAS	Psychology	Raven's Progressive Matrices: What Does This 'Intelligence Test' Measure?	Jonathan Flombaum	KSAS
Xiangyu "Grace" Gu	2022	KSAS	Neuroscience	Computational analysis of cone cell patterning in the human retina	Bob Johnston	KSAS
Ria Gualano	2022	KSAS	Psychology	Novel-Writing, Mental Health & the Search for Mr. Perfect: How facing my problems in a fictional world led to real-world healing		
Niat Habtemariam	2021	KSAS	Molecular & Cellular Biology	Therapeutic Approaches to Disorders of Sonic Hedgehog Signaling	Anna Moyer, Roger Reeves	SoM
Niat Habtemariam	2021	KSAS	Molecular & Cellular Biology	Implementation and Piloting of Social Determinants of Health Screening Tool Embedded in a Patient Portal	Ashley Skipper, Kristin Topel	SoM
Alice Han	2022	KSAS	Neuroscience	The Role of WAKE and Dlg in Circadian Regulation of Sleep	Mark Wu, Emily Han	SoM
Subin Han	2021	KSAS	Cognitive Science	The Mental Evolution of Complexity in Visual Memory	Zekun Sun, Chaz Firestone	KSAS
Jack Hogan	2021	KSAS	Neuroscience	Researching and Compiling the Unique Movements Caused by Tardive Dyskinesia	Leslie Lundt	Neurocrine Biosciences
Jocelyn Hsu	2023	WSE	Biomedical Engineering	Prediction of Targeted Temperature Management Outcomes for Personalized Cardiac Arrest Treatment	Han Kim, Robert Stevens	SoM
Kale Hyder	2022	KSAS	Neuroscience	Electrode 2.0: A Neural Simulation Tool for Computational Studies of Network Perturbations due to Traumatic Brain Injuries (TBI)	William Gray-Roncal	APL
Sujai Jaipalli	2023	WSE	Biomedical Engineering	Enabling rapid slide-free margin assessment for skin cancer treatment with a new device to flatten Mohs samples for visualization with MUSE microscopy.	Nicholas Durr	WSE
Afareen Jaleel	2021	WSE	Biomedical Engineering	Application of Digital Image Analysis Methods for Quantifying Spatiotemporal Neural Dynamics from Planar Microelectrode Arrays	Pawel Kudela, William Anderson	SoM
Ria Jha	2023	WSE	Biomedical Engineering	Dynamics of endothelial turnover in 3D microvessel models across cell types, inflammatory conditions, and model parameters	Raleigh Linville, Peter Searson	WSE
Roshani Jha	2021	KSAS	Neuroscience	Endoscopic endonasal versus transcranial approach to resection of olfactory groove meningiomas: a systematic review	Debraj Mukherjee	SoM
Sarah Jung	2023	KSAS	Neuroscience	Literature Review: Understanding individual differences in synaptic deficiency in Alzheimer's disease	Richard Hugarir	SoM

Aparajita Kashyap	2022	KSAS	Biophysics	Generalizable precision medicine tools for patient cohort discovery and visualization to aid clinical decision making	Hannah Cowley, William Gray-Roncal	APL
Sruthi Katakam	2022	KSAS	Molecular & Cellular Biology	A Review of Contemporary U.S. Biodefense Strategy: Identifying Gaps and Proposing Policy Recommendations	Kishla Askins	US Dept of Veteran Affairs
Laura Kaye	2021	KSAS	History of Art	Eva Hesse: Material Absurdity	Rebecca Brown	KSAS
Jonah Kaziyevev	2021	KSAS	Neuroscience	The Role of TRPC3 in Non-Histaminergic Itch	Lintao Qu	SoM
Deborah Kim	2021	KSAS	History of Art	Luxurious Diplomacy: Visual Literacy in Xultún and Yomootz	Lisa DeLeonardis	KSAS
Ji Hyun "Celine" Kim	2021	KSAS	Behavioral Biology	Reopening a critical period for social reward learning using psychedelic drugs in female mice models	Kirsten Bohn	KSAS
Seongjun "Jason" Kim	2021	KSAS	Molecular & Cellular Biology	Cell intrinsic differences in human ALS motor neuron subtypes reveal a common disease mechanism and targeting lipid metabolites	Gabsang Lee, Hojae Lee	SoM
Shane Kim	2021	KSAS	Neuroscience	Structural Connectivity Study on Language Pathways using Diffusion-weighted MRI: Denoting the Importance of Inferior Frontal Junction in Cognitive Linguistic Circuitries	Cho Zang-Hee	Korea University
Juliette Klitz	2021	KSAS	Neuroscience	Prenatal Maternal Testosterone and Infant Temperament	Kristin Voegtline	SoM
Ritika Kommareddi	2021	KSAS	Psychology	Kinematics and Autism Spectrum Disorder: The role of motor function in gestural imitation deficits.	Joshua Ewen	KKI
Fatima Koroma	2021	WSE	Chemical & Biomolecular Engineering	Generalizable precision medicine tools for patient cohort discovery and visualization to aid clinical decision making	William Gray-Roncal, Hannah Paris-Cowley	APL
Seoyoung Kwon	2023	WSE	Biomedical Engineering	Enabling rapid slide-free margin assessment for skin cancer treatment with a new device to flatten Mohs samples for visualization with MUSE microscopy	Nicholas Durr	WSE
Joshua Lafair	2024	KSAS	International Studies	Explaining Republican House Member Voting Patterns	Mario Micheli	SoM
Ruo-Yah Lai	2021	KSAS	Neuroscience	Place Field Repetition in CA1 Neurons	James Knierim, William Hockeimer	SoM
Michael Lan	2021	WSE	Biomedical Engineering	Design of a Face Mask Filter to Combat the SARS-CoV-2 Pandemic and Other Droplet and Airborne Diseases	Hai-Quan Mao	WSE
Adrian Lee	2022	KSAS	Neuroscience	The effect of probiotics and the gut microbiome on the homeostatic balance of neuronal excitability and emotional behaviors	Juhyun Kim, Mikhael Pletnikov	SoM
Vinicius Lepca	2021	WSE	Computer Science	Knolist	Lawrence Aronhime, Anton Dabhura	WSE

Ethan Levy	2024	WSE	Biomedical Engineering	Assessing the Accuracy of Smart Stents for Monitoring Coronary Artery Restenosis	Jacob Cohen	SoM
Keva Li	2022	KSAS	Biology	Extracellular Fluid Viscosity Enhances Cell Motility And Invasion	Yun Chen	KSAS
Nile Liu	2021	KSAS	Cognitive Science	The Role of Yes-Associated Protein (YAP) in Enterotoxigenic Bacteroidsfragilis-mediated Colon Tumorigenesis	Franck Housseau	SoM
Michelle Low	2022	KSAS	Neuroscience	Inflammatory Priming and Chronic Pain: Insights into Post-Acute COVID Syndrome Using a Novel Non-Infectious Model in Rats	Lauren Jantzie, Shenandoah Robinson	SoM
Amy Lu	2021	KSAS	Molecular & Cellular Biology	Age-dependent effects of NELL-1 isoforms on bone marrow stromal cells		
Sally Lu	2021	KSAS	Molecular & Cellular Biology	Leydig Cell Regeneration after Injury and MEK/ERK Signaling Dynamics in Mice Testes	Erika Matunis	SoM
Neha Majety	2022	KSAS	Molecular & Cellular Biology	The Discovery of the X cell Lymphocyte and the Interactions of the Anti-X Idiotype	Abdel Rahim Hamad	SoM
Yiqing Mao	2021	KSAS	Molecular & Cellular Biology	Is CDX2 Part of an Alternative Tumorigenic Pathway?	Lijing Yang, Hariharan Easwaran	SoM
Yuncong Mao	2024	KSAS	Neuroscience	Association Between Stroke and Left Atrial Geometrical Parameters in Atrial Fibrillation Patients	Nikhil Paliwal, Natalia Trayanova	WSE
Joanna Maressa	2022	WSE	Materials Science & Engineering	A three-dimensional tissue-engineered model of the blood-brain barrier during metastatic cancer	Raleigh Linville, Peter Searson	WSE
Amanda Maytin	2021	KSAS	Neuroscience	Protein and mRNA Expression of Lin28 in Fragile X Mouse Model	Mollie Meffert, Manasi Inamdar	SoM
Jessica Montoya	2021	KSAS	Behavioral Biology	Interspecies Noise Effects on Foraging Behavior of Eptesicus fuscus	Kirsten Bohn	KSAS
Annabel Mungan	2021	WSE	Environmental Engineering	Detection of Antiviral and Antibiotic Drugs in Maryland Wastewater Using Liquid Chromatography High-Resolution Mass Spectrometry	Veronica Wallace, Carsten Prasse	WSE
Ki Yoon Nam	2021	KSAS	Neuroscience	Chemogenetic Inhibition of Jaw Proprioceptors Results in Slower Behavior during Licking Task	Will Olson, Daniel O'Connor	APL
Claire Narang	2021	KSAS	Neuroscience	Role of TRPC3 in Non-Histaminergic Itch	Lintao Qu, Yan Liu	SoM
Farina Nawar	2022	KSAS	Molecular & Cellular Biology	Dysregulation of tRNA Derived Fragments in Cardiomyopathies	Marc Halushka	SoM
Manasi Nawathe	2022	WSE	Chemical & Biomolecular Engineering	Image Processing of Cytoskeletal Filaments in Mouse Astrocytic Lamina	Arina Korneva, Yik Tung Tracy Ling	KSAS
Baochau "Stephanie" Nguyen	2021	KSAS	Neuroscience	Targeting the Glutaminase II Pathway via Glutamine Transaminase K Inhibition as a Potential Treatment for Pancreatic Cancer		



Joshua Ni	2022	WSE	Biomedical Engineering	Detection of low-frequency mutation sequence context spectra and copy number variation in glioblastoma recurrence	Zhipeng Dong, Eun Hyun Ahn	WSE
Mizuho Obayashi	2021	KSAS	Neuroscience	Pachyman as a potential antidepressant treatment as assessed in CSDS-induced stress-susceptible mice	Atsushi Kamiya, Xiaolei Zhu, Shinji Sakamoto	SoM
Apoorva Ojha	2021	KSAS	Neuroscience	Comparing and Compiling Inner Ear Data Across Multiple Bat Species	Amanda Lauer, Susanne Sterbing-D'Angelo	SoM
Juliet Okorie	2022	WSE	Chemical & Biomolecular Engineering	Electrode 2.0: A Neural Simulation Tool for Computational Studies of Network Perturbations due to Traumatic Brain Injuries (TBI)	Erik Johnson, Connor Bradfield	APL
Trisha Parayil	2021	KSAS	Neuroscience	Pathological outcomes of nusinersen treatment on patients with spinal muscular atrophy	Charlotte Sumner, Lingling Kong	SoM
Chloe Paris	2022	WSE	Biomedical Engineering	Developing Personalized Mechanistic Computational Models of Menstrual Cycle Hormones	Feilim Mac Gabhann	WSE
Aashay Patel	2021	KSAS	Neuroscience	A Serotonergic Modulation Study of the Orbitofrontal Cortex during Reversal Learning	Matt Lewis	SoM
Michaela Paugh	2022	KSAS	International Studies	Food Systems Dashboard	Jessica Fanzo	BIB
Pmegan Pedicini	2023	KSAS	Neuroscience	Effects of psilocybin on stress-induced depression-like behaviors in wild-type mice	Kellie Tamashiro, Zachary Cordner	SoM
Dylan Peters	2022	KSAS	Neuroscience	The Symbiotic Efficacy of Psychedelics and Meditation in Treating Major Depressive Disorder: Investigation of Psilocybin as a Single-Dose Pharmacological Intervention	Nathan Sepeda	SoM
Evan Petrosky	2021	KSAS	Physics	Variability, periodicity, and contact binaries in WISE	Nadia Zakamska, Hsiang-Chih Hwang	KSAS
Rebecca Reed	2022	KSAS	Psychology	Decision-Making and Discrimination in Hiring Decisions	Jemima Frimpong	CBS
Dominick Reyes	2022	KSAS	Cognitive Science	Electrode 2.0: A Neural Simulation Tool for Computational Studies of Network Perturbations due to Traumatic Brain Injuries (TBI)	William Gray-Roncal, Felicia Davenport	APL
Dominick Rich	2021	KSAS	Neuroscience	Investigating the Cellular Mechanism of TRPV4-Mediated Neuropathies	Thomas Lloyd	SoM
Isabel Ryan	2021	KSAS	Molecular & Cellular Biology	Characterizing the Role of Microtubules in Mammary Gland Branching During Puberty	Andrew Fraser, Andrew Ewald	SoM
Neha Sangana	2022	WSE	Engineering Mechanics	The impact of mechanical ventilation settings on the outcome of patients with acute brain injury in the intensive care unit	Robert Stevens	SoM
Romila Santra	2022	KSAS	Neuroscience	A Volumetric Brain Analysis of Children with ASD, ADHD and their Unaffected Siblings	Stewart Mostofsky	SoM
James Scharf	2021	KSAS	Political Science	A Semi-Automated Analysis of News Media in Hong Kong	Giovanna Maria Dora Dore	KSAS

Julianne Schmidt	2021	KSAS	History of Art	Painting Kashmir: Distance and Intimacy in Contemporary Approaches to the Valley	Rebecca Brown	KSAS
Jiayu Shao	2021	KSAS	Neuroscience	Invisible walls-Does of navigational experience influence visual scene perception?	Donald Shi Pu Li, Soojin Park	KSAS
Ashley Sharma	2023	KSAS	Neuroscience	Relationship Between Sleep Fragmentation and Neuropathic Pain in the Early Post-Operative Period	Chloe Alexandre, Alban Latremoliere	SoM
Gina Shim	2022	KSAS	Neuroscience	Different serotypes of adeno-associated virus marks different layers of parallel fibers in the cerebellum.	Keiko Tanaka-Yamamoto	KIST Brain Research Institute
Anayaa Sivakumar	2021	KSAS	Neuroscience	A Quantitative Analysis of Brain Volume Dynamics in Primary CNS Lymphoma Patients Treated With High-Dose Methotrexate	Matthias Holdhoff, David Kamson	SoM
Victoria Stepanyants	2021	KSAS	Neuroscience	Elucidating a mechanism of the anterior insular circuitry responsible for conscious fear memory retention	Ho Namkung	SoM
Madison Surmacz	2021	KSAS	Psychology	Exploring the Features of Intolerance of Uncertainty in Children with ASD.	Roma Vasa	KKI
Ananya Swaminathan	2021	WSE	Biomedical Engineering	Leveraging computer vision to screen mice for vestibular dysfunction	Kathleen Cullen	SoM
Sarah Syed	2023	KSAS	Neuroscience	Assessing parameter sensitivity in standard single-cell RNA-seq analysis pipelines	Nigel Michki	University of Michigan
Diego Tanton	2021	KSAS	Biology	Protein Recoding in Yeast Through +1 Programmed Ribosomal Frameshifting	Kyle Cunningham	KSAS
Junpei Tarashi	2022	KSAS	Biology	Multilevel predictors of treatment engagement in youth receiving medication or behavioral treatment for opioid use disorders: a systematic-review	Christopher Hammond	SoM
Elena Taylor	2022	KSAS	Neuroscience	Big Heads: The Problem of Macrocephaly in Infancy	Joseph Piatt	Nemours Children's Health
Veena Thamilselvan	2022	KSAS	Public Health Studies	Baltimore Neighbors Network: A Community Based Internship to Support Elder Adults during the Pandemic	Camille Jensen, Ann Coy	SoE
Xiao Tong	2021	KSAS	Neuroscience	Optically Investigating how Ventral Pallidum Activity Guides Reward Choices		
Kinsey Tyler	2021	KSAS	Psychology	Treatment adherence and therapy dose are associated with opioid abstinence in youth receiving medication or behavioral treatment for opioid use disorders: a systematic review	Christopher Hammond, Grace Park	SoM
Tochi Uchuno	2021	KSAS	Psychology	Attentional Sampling Strategies for Multi-Attribute Decision Making	Veit Stuphorn, Jacob Elsey	SoM
Paige Upright	2021	KSAS	Behavioral Biology	Social Call Effects on Foraging Behavior of Eptesicus fuscus	Kirsten Bohn	KSAS

Joyce Wang	2022	KSAS	Molecular & Cellular Biology	Understanding Glaucoma: Integrating Genetic Studies, Neuroprotective Animal Models, and Stem Cell-Based Approaches	Robert Johnson, Brian Guy	KSAS
Tiffany Wong	2021	KSAS	Behavioral Biology	Investigating the Effect of Sex Trafficking Education on Pornography Consumption	Bill Smedick	WSE
Serena Wu	2021	KSAS	Neuroscience	The role of IgLONs and their significance in AMPA receptor-mediated synaptic plasticity	Hana Goldschmidt	SoM
Michael Xiang	2022	KSAS	Chemistry	Investigation and Innovation of Functionally Directed, Site-Selective and Efficient Radical Fluorination Strategies for Bioorganic Molecules	Thomas Lectka	KSAS
Qianwen Xu	2021	KSAS	Neuroscience	The Potential of Intermittent Fasting for the Treatment of Neurological Disorders	Sangwon Kim	SoM
Wingel Xue	2022	KSAS	Molecular & Cellular Biology	The Myth of Black Immunity & COVID-19: Persistent Legacies	Alexandre White	KSAS
Yoko Yamashita	2022	KSAS	Neuroscience	The neuroprotective efficacy of a novel c-Abl inhibitor, K0706, in a preclinical mouse model of Parkinson's disease	Senthilkumar Karuppagounder	SoM
Jun Yang	2021	KSAS	Neuroscience	APLP1 and APLP1-LAG3 Complex facilitates transmission of pathologic a-synuclein	Xiaobo Mao	SoM
Ziqing Ye	2024	KSAS	Biophysics	Transcriptome-wide palindrome identification and analysis	Siran Tian, Tatjana Trcek	KSAS
Sang Eun Yeom	2021	KSAS	Psychology	The Influence of Movie Narrative Structures on Naturalistic Recall	Hongmi Lee, Janice Chen	KSAS
Edward Yin	2021	KSAS	Behavioral Biology	Rational decision making in humans: test case of benign prostatic hyperplasia	Andrew Cohen	SoM
Junjia Zhang	2022	KSAS	Physics	Josephson Effects of Monopole Superconductors in a Doped Weyl Semimetal	Yi Li	KSAS
Michelle Zhang	2021	KSAS	Molecular & Cellular Biology	Targeting transcription factor Creb-1 in cardiac myocytes with short hairpin shRNA adenoviruses	Kyriakos Papanicolaou, D. Brian Foster	SoM
Nancy Zhang	2021	KSAS	Neuroscience	Delayed Diagnoses and Presenting Characteristics of Acanthamoeba Keratitis at a Tertiary Care Medical Center	Fasika Woreta	SoM
Wenyan Zhang	2022	KSAS	Molecular & Cellular Biology	ZNFX-1 Maintains Poly(UG)-tailed RNAs for Transgenerational Epigenetic Inheritance	John Paul Ouyang, Geraldine Seydoux	SoM
Justin Zhou	2023	WSE	Biomedical Engineering	Dynamics of brain microvascular endothelial cell tight junctions in a 3D microvessel model	Raleigh Linville, Peter Searson	WSE

DREAMS - 2019 Presenters							Apr 5
Presenter	Year	School	Primary Major	Project Title	Mentor/s	Division/ Institution	
Chukwuebuka "Ebuka" Achebe	2019	WSE	Biomedical Engineering	Determining the Effects of Ethylene Oxide Sterilization on the Biocompatibility of 3D-Printed Bone Grafts for Craniofacial Repair	Warren Grayson	SoM	
Sami Ahmad	2020	KSAS	History of Science, Medicine & Technology	Impact of the Microbiota on the Colorectal Cancer Tumor Micro-environment	Drew Pardoll, Franck Housseau	SoM	
Aleser Alahmad	2020	WSE	Materials Science & Engineering	Analyte Sensing Organic Semiconductor Response Under High Stress Conditions	Howard Katz, Orla Wilson	WSE	
Shahmir Ali	2019	KSAS	Public Health Studies	Attitudes and awareness of water management and sanitation principles and careers among Pakistani secondary school students following an educational intervention	Kellogg Schwab, Michael Harrower	BSPH, KSAS	
Christina Ambrosino	2019	KSAS	Neuroscience	Effects of Isomyosmine on Mouse Model of Multiple Sclerosis	Katie Whartenby	SoM	
Kavya Anjur	2021	WSE	Biomedical Engineering	Therapeutic Reversal and Model Optimization of Duchenne Muscular Dystrophy in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes	Peter Andersen, Chulan Kwon	SoM	
Mariela Ayala-Lopez	2020	KSAS	Public Health Studies	Our Role in Advocating for Undocumented Families	Rocio Masset	SoM	
Sami Ayele	2019	KSAS	International Studies	Moments in Time: Participation and Identity Among Mouride Youth	Sydney Morgan	KSAS	
Sami Ayele	2019	KSAS	International Studies	SIT: New African Diasporas Study Abroad Experience			
Carver Bain	2021	KSAS	Film & Media Studies	How to Care for Strangers - A Short Film	Meredith Ward	KSAS	
Christianna Bambini	2020	WSE	Mechanical Engineering	New Hole Transport Materials for Colloidal Quantum Dot Solar Cells	Susanna Thon	WSE	
Rasha Bara	2019	WSE	Materials Science & Engineering	Engineering a Self-Expandable Embolization Device	Shin-Jae Lee, Hai-Quan Mao, Luo Gu, Christos Georgiades	WSE, SoM	
Tai Barber-Gumbs	2019	KSAS	Public Health Studies	The Diabetes Networking Tool Study	Pamela Surkan	BSPH	
Maria Bautista Rojas	2019	KSAS	Neuroscience	Analyzing Cognitive Differences Between Two Brain Areas Affecting Orthographic Long Term Memory	Brenda Rapp, Jennifer Shea	KSAS	
Woudese Befikadu	2019	KSAS	International Studies	Land Rights and Protests in Addis Ababa	Robbie Shilliam	KSAS	
Woudese Befikadu	2019	KSAS	International Studies	Semester Abroad at Sciences Po Paris			
Jenna Bellantoni	2019	KSAS	Public Health Studies	Hospital Admissions After Living Kidney Donation: Long-Term Findings from a Multi-Center Cohort Study	Dorry Segev, Madeleine Waldram	SoM	
Milena Berhane	2019	KSAS	Public Health Studies	Child Educational Development at Delta Cultura Organization in Tarrafal, Cape Verde	Rhea Wyse	BSPH	

Lauren Bernard	2020	KSAS	Public Health Studies	Investigating the role of aberrant piRNA targeting as a cause of RNAi insensitivity in Caenorhabditis elegans germ granule mutants	John Paul Ouyang, Geraldine Seydoux	SoM
Vahni-Vishala Bernard	2019	KSAS	Neuroscience	Preference Reversal in Multi-Attribute Decision Making	Veit Stuphorn, Erik Emeric	SoM, KSAS
Luca Bertozzi	2020	KSAS	Biophysics	Nano-DMS: Using Nanopore Sequencing to Resolve Riboswitch Secondary Structure	TJ Ha, Dmitriy Bobrovnikov	SoM
Pandurang "Soham" Bharne	2018	KSAS	Neuroscience	Effect of Kinase Inhibitors on p53 Expression in Colorectal Carcinoma Post Acute Aneuploidy	Rong Li	SoM
Deeya Bhattacharya	2020	KSAS	Neuroscience	Histone H2AX promotes neuronal health by controlling mitochondrial homeostasis	Solomon Snyder, Urbain Weyemi	SoM
Shivani Bisen	2020	KSAS	Public Health Studies	Hospital Admissions After Living Kidney Donation: Long-Term Findings from a Multi-Center Cohort Study	Dorry Segev, Madeleine Waldram	SoM
Sophia Block	2019	KSAS	Behavioral Biology	Memory for Object Identity and Object Positions in Novel Environmental Scenes	Arnold Bakker, Michela Gallagher	SoM, KSAS
Kiana Boroumand	2020	KSAS	Sociology	Feminist Paradise Lost? Family Policy and Lone Motherhood in the World's Most Feminist Country	Andrew Cherlin	KSAS
Anthony Boutros	2020	KSAS	Sociology	Gender in Hybridized Contention	Sarah Parkinson, Ryan Calder	KSAS
Nathanael Camick	2020	KSAS	Public Health Studies	Development of Standardized Measures of Barriers to Treatment Adherence: Field Testing and Psychometric Validation	Kristin Riekert, Alexandra Quittner	SOM, Miami Children's Research Institute
Ryan Carney	2021	KSAS	Biophysics	E-cadherin promotes proliferation in breast cancer	Denis Wirtz	WSE
Reece Carter	2020	KSAS	Neuroscience	10 Minute Neuroanatomy: An Innovative Resource for Addressing Neurophobia Among Medical Students	Rebecca DiBiase, Rachel Salas, Charlene Gamaldo	SoM
Youngjae Cha	2019	KSAS	Public Health Studies	Pathology and toxicity of different strains of alpha-synuclein	Ted Dawson, Enquan Xu, Xiaobo Mao	SoM
Vanessa Chan	2020	KSAS	Behavioral Biology	Cryptic Exon Incorporation and Parkinson's Disease	Mingkuan Sun, Shuke Nie, Liam Chen	SoM
Vedant Chandra	2021	KSAS	Physics	Hunting for Binary White Dwarf Stars using Spectroscopic Analysis	Nadia Zakamska	KSAS
Audrey Chang	2019	KSAS	Cognitive Science	A Common Genetic Etiology for 2,3 syndactyly and Maladaptive Behaviors	Marco Grados	SoM
Bowen Chen	2019	WSE	Materials Science & Engineering	Characterization of Mg-Zn-Ca and Mg-Rare Earth Corrosion in Modified Simulated Body Fluid	Timothy Weihs, Ju Xue	WSE
Joseph Chen	2019	WSE	Materials Science & Engineering	Engineering a Self-Expandable Embolization Device	Shin-Jae Lee, Hai-Quan Mao, Luo Gu, Christos Georgiades	WSE, SoM
Theresa Chen	2019	WSE	Chemical & Biomolecular Engineering	Integrating Anticoagulant Drugs to Develop Enhanced Acellular Vascular Grafts	Morgan Elliott, Sharon Gerecht	SoM, WSE

Yuxi Chen	2019	KSAS	Neuroscience	Sensorimotor sequence generation and control of tongue movements	Daniel O'Connor, Duo Xu	SoM
Jia Yuee "Elaine" Chiao	2020	KSAS	Molecular & Cellular Biology	Characterizing the Novel Germ Cell Marker GCNA in Early C. Elegans Embryogenesis	Geraldine Seydoux, Andrea Putnam	SoM
Justin Cho	2020	KSAS	Public Health Studies	Using Google Search Trends to Predict Violent Crime in Baltimore: An Interdisciplinary Approach	Rebecca Fix	BSPH
Justin-James Chua	2019	WSE	Materials Science & Engineering	Nanofiber-hydrogel composite as a treatment for acute myocardial infarction promotes angiogenesis and reduces secondary damage	Hai-Quan Mao, Calvin Chang	WSE
Christine Chung	2019	WSE	Materials Science & Engineering	Analyte Sensing Organic Semiconductor Response Under High Stress Conditions	Howard Katz, Orla Wilson	WSE
Eumihnn "Michelle" Chung	2021	KSAS	Public Health Studies	Understanding the "poverty of isolation" and impact of social wealth through the Thread model	Aaryn McCutchan	Thread, Inc
Lee Clyne	2019	KSAS	Biology	Hope and Flourishing	James Gray	American University
Eliza Cohn	2020	WSE	Electrical Engineering	Energy Based Control for Low Inertia Power Systems	Enrique Mallada Garcia	WSE
Rory Cole	2019	WSE	Materials Science & Engineering	Designing a biodegradable tough tissue adhesive for treatment of internal wounds	Luo Gu	WSE
Audrey Collins	2020	KSAS	Public Health Studies	Understanding the Role of Oxidative Stress and Inflammation in Age-Related Macular Degeneration	Marisol Cano, Jim Handa	SoM
Christian Cosgrove	2020	WSE	Computer Science	Adversarial Examples for Edge Detection: They Exist, and They Transfer	Alan Yuille	KSAS
Jaynie Criscione	2019	WSE	Materials Science & Engineering	Developing a Method to Quantify Peptide Binding to Live Cell Membranes	Michael Paul, Alexander Komin, Kalina Hristova	WSE
Marvin Cruz	2020	KSAS	Neuroscience	ETV1 Regulates Phenotypic Switching in Vascular Smooth Muscle Cells	Shannon Conley	University of Oklahoma
Julie Cui	2020	WSE	Chemical & Biomolecular Engineering	E-cadherin promotes proliferation in breast cancer	Denis Wirtz	WSE
Danielle Currey	2021	WSE	Computer Science	Deep Learning for Magnetic Resonance Fingerprinting in Cardiac MRI	Jesse Hamilton, Nicole Seiberlich	Case Western Reserve University
Carolina Daffre	2018	KSAS	Psychology	Rumination Beliefs Predict Internalizing Disorders in College Students: The Mediating Role of Rumination	Alison Papadakis	KSAS
Tess DeBerry	2019	KSAS	History of Art	Erotica in Ancient Roman: Gender Hierarchies in a World of Penetration	Emily Anderson	KSAS
Julia Dickson	2020	WSE	Environmental Engineering	Kosovo International Summer Academy		
Thomas DeSorbo	2020	WSE	Biomedical Engineering	Development of Low-Level Light Therapy Device (LLLT): Observing its Effects on Heat Shock Protein (HSP70) and Photoreceptor Degeneration	Charbel Rizk	WSE

Grace Duan	2019	KSAS	Public Health Studies	Amyloid- $\beta$ and Tau Accumulation Modulates Neuronal Excitability to Impact Sleep and Lifespan	Mark Wu	SoM
Kulsoom Durrani	2019	KSAS	Public Health Studies	Metal Enhancement of Ethyl Maltol Mediated Cytotoxicity	Joseph Bressler	KKI
Julia Duvall	2019	KSAS	Neuroscience	Exogenous Oxytocin Rescues Abnormal Neuronal Oscillations in the CNTNAP2 Transgenic Model	Peyman Golshani	UCLA
Alexa Earls	2019	KSAS	Behavioral Biology	Predicting Target Trajectory in Eptesicus Fuscus	Clarice Diebold, Angie Salles, Kirsten Bohn, Cindy Moss	KSAS
Andrew Efimov	2019	WSE	Electrical Engineering	Development of Low-Level Light Therapy Device (LLLT): Observing its Effects on Heat Shock Protein (HSP70) and Photoreceptor Degeneration	Charbel Rizk	WSE
Anirejuoritse Egbe	2022	WSE	Materials Science & Engineering	Designing a biodegradable tough tissue adhesive for treatment of internal wounds	Luo Gu	WSE
Sarah Elnozahy	2020	KSAS	Neuroscience	Context influences the behavioral and neural expression of latent knowledge during sensorimotor learning	Kishore Kuchibhotla	KSAS
Collin English	2019	KSAS	Neuroscience	Assessing Brain A $\beta$ clearance in Subjects with Enhanced Risk for Alzheimer's Disease through the APOE4 Genotype	Juan Troncoso	SoM
Hannah Fajer	2020	KSAS	Psychology	Rumination Beliefs Predict Internalizing Disorders in College Students: The Mediating Role of Rumination	Alison Papadakis	KSAS
Christian Falgons	2019	WSE	Materials Science & Engineering	Designing a biodegradable tough tissue adhesive for treatment of internal wounds	Luo Gu	WSE
Michael Farid	2021	WSE	Biomedical Engineering	Gene Entropy- A Novel Method To Delineate and Explore Cells' Biological Timepoint	Chulan Kwon, Suraj Kannan	SoM
Amanda Fernandes	2022	WSE	Electrical Engineering	Diffuse-Light-Collecting Flexible Micro-Concentrators for High Efficiency Solar Cells	Susanna Thon	WSE
Shannon Flanary	2019	WSE	Chemical & Biomolecular Engineering	Mechanistic Manipulation of Cell Cortical Tension with Y-27632	Sean Sun	WSE
Maya Flannery	2019	KSAS	Public Health Studies	Hospital Admissions After Living Kidney Donation: Long-Term Findings from a Multi-Center Cohort Study	Dorry Segev, Madeleine Waldram	SoM
Emily Franco	2020	KSAS	Psychology	Rumination Beliefs Predict Internalizing Disorders in College Students: The Mediating Role of Rumination	Alison Papadakis	KSAS
Angel Gabriel	2019	KSAS	Public Health Studies	Race, Hypertension, and the Role of Social Support in an Integrated Community	Roland Thorpe	BSPH
Tina Gao	2021	WSE	Electrical Engineering	Stabilization and Size-Tuning of Plasmonic Aluminum Nanoparticles for Aqueous Photocatalysis	Yan Cheng, Kenneth Smith, Ebuka Arinze, Arthur Bragg, Susanna Thon	WSE, KSAS



Shannon Gavin	2021	KSAS	Neuroscience	Effects of 5-MeO-DMT on Religion, Spirituality, and Personality Among One-Time Users	Alan Davis	SoM
Samantha Getsin	2019	KSAS	Biology	Hospital Admissions After Living Kidney Donation: Long-Term Findings from a Multi-Center Cohort Study	Dorry Segev, Madeleine Waldram	SoM
Jonah Giuliano	2019	KSAS	International Studies	Language Study in Bolivia	Sydney Morgan	KSAS
Adriana Gonzalez Torriente	2020	KSAS	Neuroscience	Pediatric Venous Sinus Thrombosis: Etiologies, Treatment and Outcomes	Lisa Sun	SoM
Preethi Gopal	2020	KSAS	Neuroscience	Project Healthy Schools - Sri Lanka: Examining the International and Cross-Cultural Impact of a Diabetes Prevention Program	Gilbert Burnham	BSPH
Myranda Gormley	2019	KSAS	Neuroscience	Distinct influence of value-driven attentional capture when maintaining locations and spatial relations in working memory	Susan Courtney, Thomas Hinault, Leon Gmeindl	KSAS
Mica Green Williams	2019	KSAS	Public Health Studies	Do Referrals Matter? Examining the association between receipt of referral care and viral load status among youth living with HIV in Zambia	Julie Denison	BSPH
Ethan Greist	2019	KSAS	International Studies	2017-2018 Year Abroad at Oxford University		
Rebecca Grusby	2020	WSE	Chemical & Biomolecular Engineering	Improving Hemocompatibility and Anti-Biofouling of 3D-Printed Cardiovascular Conduits Through Surface Modifications	Sung Hoon Kang	WSE
Maya Hammonds	2019	KSAS	Molecular & Cellular Biology	SNPC-4 and SIM-6 are required for male-specific piRNA expression in C. elegans	John Kim, Rebecca Tay	KSAS
Anna-Maria Hartner	2020	KSAS	Public Health Studies	Efficacy of Low-Cost Air Pollution Sensors for Public Health Fieldwork in Uganda	Darryn Waugh	KSAS
Casey Haughin	2019	KSAS	Archaeology	Study and Quantification of Locally Produced Ceramics at a Lusitanian Roman Villa	Emily Anderson, Joey Williams	KSAS, University of Central Oklahoma
Casey Haughin	2019	KSAS	Archaeology	Female Experience and Patronage in the Late Middle Ages: Books of Hours from the Walters Art Museum Collection	Christopher Lakey	KSAS
Leyla Herbst	2019	KSAS	Public Health Studies	The Live Donor Champion: Advocating for Live Organ Donation Through Educational and Social Media Interventions	Arthur Love, David Helfer, Andrew Cameron, Jacqueline Garonzik-Wang	SoM
Nicole Hernandez	2019	WSE	Chemical & Biomolecular Engineering	Investigating the effect of vaginal gel formulation on cervicovaginal mucus barrier properties	Laura Ensign-Hodges, Hannah Zierden	SoM, WSE
Louis Hoffenberg	2020	WSE	Applied Math & Statistics	Fluorofunctionalization of C=C Bonds with Selectfluor: Synthesis of $\beta$ -Fluoropiperazines through a Substrate-Guided Reactivity Switch	Thomas Lectka	KSAS
Se Wook "Chris" Hong	2019	KSAS	Public Health Studies	Sensory Deficiencies and Cognitive Assessment	Alison Abraham	SoM

Phoebe Hu	2020	KSAS	Public Health Studies	Identifying Anaerobic Digestion Effluent Growth Parameters for Lettuce in Hydroponics Systems	Ed Bouwer, Christopher Brueck	WSE
Soonmyung "Andrew" Hwang	2021	KSAS	Neuroscience	SNO-GAPDH: A Potential Target for Neuroprotection in CNS Inflammation		SoM
Darleen Ibe	2019	KSAS	Behavioral Biology	Engaging Baltimore City High School Students within Thread to Assist in Combating Social Barriers	Alla Nesmith Miller	Thread, Inc
Eda Incekara	2020	KSAS	Neuroscience	Characterization of individual aging effects on white matter integrity and dynamic network connectivity of cognitive control: An EEG Study	Thomas Hinault, Susan Courtney	KSAS
Mathias Insley	2022	WSE	Materials Science & Engineering	Engineering a Self-Expandable Embolization Device	Hai-Quan Mao, Luo Gu, Christos Georgiades, Shin-Jae Lee	WSE, SoM
Michael Irving	2019	KSAS	Public Health Studies	Reducing the Global Disease Burden of Malaria Through Health Communication and Insecticide-Treated Net Use	Rebecca Shore	BSPH
Kelsey Ishimoto	2019	KSAS	Physics	Photopatterning Liquid Crystal Cells	Francesca Serra	KSAS
Siddharth Iyer	2021	WSE	Materials Science & Engineering	Engineering a Self-Expandable Embolization Device	Hai-Quan Mao, Luo Gu, Christos Georgiades, Shin-Jae Lee	WSE, SoM
Afareen Jaleel	2021	WSE	Biomedical Engineering	Movement Vigor and Decision Making	Reza Shadmehr	SoM
Jihoon Jang	2020	WSE	Biomedical Engineering	Holding the arm still through subcortical mathematical integration of cortical commands	Scott Albert, Reza Shadmehr	SoM
Rayyan Jokhai	2019	KSAS	Chemistry	Fluorofunctionalization of C=C Bonds with Selectfluor: Synthesis of $\beta$ -Fluoropiperazines through a Substrate-Guided Reactivity Switch	Thomas Lectka	KSAS
Nya Jones	2020	KSAS	Economics	Neuroscience of Discrimination	Jemima Frimpong	CBS
Aamna Kabani	2019	KSAS	Public Health Studies	Obsessive-Compulsive Symptoms and Emotional-Behavioral Functioning in Children and Adolescents Living in Karachi, Pakistan	Marco Grados	SoM
Maya Kahane	2019	KSAS	History of Art	Patrons and Propaganda: Understanding the Role of Theater in the House of the Tragic Poet	Molly Warnock	KSAS
Sandeep Kambhampati	2021	WSE	Biomedical Engineering	Application of Doppler Ultrasound to Measuring Spinal Cord Blood Flow in Traumatic Spinal Cord Injury	Amir Manbachi, Nicholas Theodore	SoM
Suthicha "Jessie" Kanacharoen	2021	KSAS	Molecular & Cellular Biology	Nerd's Eye View: Alternative Photography of the Homewood Campus		
Alexander Kaplan	2020	KSAS	International Studies	Germany in the European Community	Sydney Morgan	KSAS
Allison Keller	2019	KSAS	Molecular & Cellular Biology	The Effect of WNT5A and TGF- $\beta$ Inhibition on Primary Human Airway Epithelium Exposed to Chronic Cigarette Smoke	Ramana Sidhaye, Kristine Nishida	SoM

Samavia Khan	2019	KSAS	Molecular & Cellular Biology	Child Health Decision Making on the Household Level in Sindh, Pakistan	Ann Herbert	BSPH
Zoya Khan	2020	KSAS	Molecular & Cellular Biology	p63 Control of Desmosomal Gene Regulation and Adhesion is Compromised with mTORC Loss of Function	Tamara Lotan, Sanjana Murali, Kaushal Asrani	SoM
Jeong Hun "Jeff" Kim	2019	WSE	Electrical Engineering	Development of Low-Level Light Therapy Device (LLLT): Observing its Effects on Heat Shock Protein (HSP70) and Photoreceptor Degeneration	Charbel Rizk	WSE
Kyu Seok Kim	2019	WSE	Materials Science & Engineering	Is high entropy really good for high entropy alloys?	Peng Yi, Michael Falk	WSE
Wonjoong "Richard" Kim	2019	KSAS	Neuroscience	Transneuronal Propagation of Alpha-synuclein from Gut to Brain as Novel Model of Parkinson's Disease	Hanseok Ko	SoM
Yaewon Kim	2020	KSAS	Public Health Studies	Investigating the Role of Anti-PAD2 Antibodies in Multiple Sclerosis	Erika Darrah	SoM
John "Jack" Klein	2020	KSAS	International Studies	Research on John Keats' Shifting Aesthetics & Influences	Jared Hickman	KSAS
Ashrita Kumar	2019	KSAS	Neuroscience	Cervical Cancer Screening: A Low- and Middle-Income Country Perspective	Sangeeta Sinha	Henry Ford Allegiance Health-Jackson
Emile-Victor Kuyl	2019	KSAS	Neuroscience	Vocal control in the common marmoset ( <i>Callithrix jacchus</i> )	Xiaoqin Wang, Lingyun Zhao	SoM
Shravika Lam	2019	KSAS	Neuroscience	Upregulation of microRNA-124 Contributes to Overlapping Endophenotypes Between Schizophrenia and Bipolar Disorder	Akira Sawa, Ho Namkung	SoM
Lawrence Langan	2019	WSE	Materials Science & Engineering	Coating 3D Magnesium-Hydroxyapatite Weaves with (Poly)Caprolactone to Provide Biocompatible Bone Scaffolds	Timothy Weihs	WSE
Maya Lapinski	2020	WSE	Biomedical Engineering	Clinical Profiles: Computable Knowledge for Translational Research	Chris Chute	SoM
Jacob LaRochelle	2020	KSAS	International Studies	Human Trafficking in Copenhagen, Denmark	Kate Bruffett	KSAS
Oscar Larraza	2019	KSAS	Neuroscience	Translational Model of Leukoencephalopathy with Brain Stem and Spinal Cord Involvement with Lactate Elevation	Ali Fatemi, Christina Nemeth Mertz	KKI
Anysia Lee	2019	KSAS	Neuroscience	Assessment of Concussion Secondary to Self-Injurious Behavior in Individuals with Intellectual and Developmental Disabilities	Griffin Rooker	KKI
Clarice Lee	2020	KSAS	Public Health Studies	Social Media Use in Increasing Rotavirus Vaccine Coverage	Rose Weeks, Maria Bulzacchelli	BSPH
Jaeyoung Lee	2019	KSAS	Writing Seminars	Hamster-Sitter	Meredith Ward	KSAS
Jung Min Lee	2020	WSE	Biomedical Engineering	Application of Ldpred	Nilanjan Chatterjee	BSPH

Wei Hao Lee	2019	KSAS	Chemistry	Fluorofunctionalization of C=C Bonds with Selectfluor: Synthesis of $\beta$ -Fluoropiperazines through a Substrate-Guided Reactivity Switch	Thomas Lectka	KSAS
Michael Leff	2021	KSAS	Molecular & Cellular Biology	Engineering cytokine-antibody fusions for cancer immunotherapy	Jamie Spangler	WSE
Allsion Lemmer	2019	WSE	Biomedical Engineering	The effect of heavy metal exposure on the rat gut microbiome	Winston Timp	WSE
Cindy Li	2019	KSAS	Neuroscience	The Role of Medial Temporal Lobe and Hippocampal Subcortical Regions in Memory Functions of Children and Adolescents with Autism Spectrum Disorder	Arnold Bakker	SoM
Jason Li	2020	KSAS	Neuroscience	A Novel Approach for the Isolation of Neuronal Primary Cilia Through Tagging Adenylyl Cyclase 3	Haiqing Zhao	KSAS
Xiang "Lisa" Li	2020	WSE	Computer Science	Modeling Underlying Forms in Natural Languages	Jason Eisner	WSE
Jialiu "Annie" Liang	2021	WSE	Biomedical Engineering	Patient-specific scar distribution alters arrhythmogenicity of pluripotent stem cell-derived cardiomyocyte (PSC-CM) cell sheet transplantation in patients with ischemic cardiomyopathy: an in silico study	Natalia Trayanova	WSE
Anching "Annie" Lien	2019	KSAS	Public Health Studies	Effect of Ethyl Maltol on Intracellular metal concentrations and cell viability	Joseph Bressler	BSPH
Wilson Liou	2022	WSE	Materials Science & Engineering	Analyte Sensing Organic Semiconductor Response Under High Stress Conditions	Howard Katz, Orla Wilson	WSE
Bessie Liu	2020	KSAS	Molecular & Cellular Biology	Exploring Bacterial Heterogeneity Using A Modified Fluorescence Dilution Approach	Kimberly Davis	BSPH
Rachelle Liu	2020	KSAS	Public Health Studies	Health Leads: Redefining Health Care	Kristen Topel	SoM
Sarah Liu	2019	KSAS	English	Towards a Shared Aesthetic, From Classical Chinese to Modern French	Christopher Cannon, Wilda Anderson	KSAS
Nikki Lopez Suarez	2019	KSAS	Medicine, Science & the Humanities	Gabriel García Márquez: Illness as a Literary Device	Maria Portuondo	KSAS
Beatrice Lunsford-Poe	2019	KSAS	Physics	Lens Defects in Cholesteric Liquid Crystals	Francesca Serra	KSAS
Nancy Luo	2019	KSAS	Neuroscience	Disruption of Sleep-dependent Excitation-Inhibition Balance Regulation in Autism Mouse Models	Alfredo Kirkwood, Michelle Bridi	SoM, KSAS
MonYi Lwin	2019	KSAS	Public Health Studies	Urine Ketones as a Biomarker for Seizure Reduction in Patients with Epilepsy on the Modified Atkins diet	Mackenzie Cervenka	SoM
QianHui "Kayla" Ma	2018	KSAS	Psychology	Rumination Beliefs Predict Internalizing Disorders in College Students: The Mediating Role of Rumination	Alison Papadakis	KSAS
Saborny Mahmud	2020	KSAS	Molecular & Cellular Biology	The Effect of WNT5A and TGF- $\beta$ Inhibition on Primary Human Airway Epithelium Exposed to Chronic Cigarette Smoke	Ramana Sidhaye, Kristine Nishida	SoM

Melissa Mai	2019	KSAS	Biophysics	Transition between Swimming and Crawling: A Model of Eukaryotic Cell Motility	Brian Camley	KSAS
Bidyut Mani	2020	WSE	Biomedical Engineering	Development of Low-Level Light Therapy Device (LLLT): Observing its Effects on Heat Shock Protein (HSP70) and Photoreceptor Degeneration	Charbel Rizk	WSE
Carolyn Marar	2020	WSE	Biomedical Engineering	The Impact of Physiological Stiffness on Cancer Cell Communication	Alexandra Sneider, Denis Wirtz	WSE
Julia Marchyshyn	2021	KSAS	Public Health Studies	Crisis Text Line Acting as a Prevention and Intervention Method for Childhood Mental Illness	Rhea Wyse	BSPH
Jacqueline Martin	2019	KSAS	Neuroscience	Using Induced Pluripotent Stem Cells to Assess Neuronal Activity, Homeostatic Plasticity and Cell Fate in Patients with Pitt Hopkins Syndrome	Brady Maher, Brittany Davis	SoM
Taylor Martin	2020	KSAS	Molecular & Cellular Biology	Hospital Admissions After Living Kidney Donation: Long-Term Findings from a Multi-Center Cohort Study	Dorry Segev, Madeleine Waldram	SoM
Daniel Matsumoto	2020	KSAS	Film & Media Studies	桜 (Sakura)	John Mann, Meredith Ward	KSAS
Constanza Mayz	2019	KSAS	International Studies	Fudan University Language Program	Sydney Morgan	KSAS
Madison McGrath	2019	WSE	Materials Science & Engineering	Designing a biodegradable tough tissue adhesive for treatment of internal wounds	Luo Gu	WSE
Nathaniel McKeever	2019	WSE	Materials Science & Engineering	Organic Field Effect Transistor Based Nitrogen Dioxide Molecular Sensors	Huidong Fan, Justine Wagner, Howard Katz	WSE
Anastasia Miller	2019	KSAS	Molecular & Cellular Biology	Temporal Filtering of Sensory Neurons in C. elegans	Andrew Gordus	KSAS
Mackenzie Mills	2020	KSAS	Earth & Planetary Sciences	Moonquake-Triggered Mass Wasting Processes on Icy Worlds	Robert Pappalardo, Mark Panning	NASA
Arman Mizani	2019	KSAS	Neuroscience	Biodegradable Wafers Releasing Temozolomide and Carmustine Result in Longer Survival Rates in Rodent Gliomasarcoma Model Compared to Standard Therapies	Betty Tyler, Henry Brem	SoM
Arman Mizani	2019	KSAS	Neuroscience	Myocardial Infarction, Combined-device, Recovery Enhancement (MiCORE) Study	Mario Bianchet	SoM
Giovanna Molina	2019	KSAS	Film & Media Studies	Chasing Eden	Jimmy Joe Roche	KSAS
John "Jack" Mountain	2018	WSE	Chemical & Biomolecular Engineering	Uncharacterized role of PI3K: PIP3-independent induction of endocytosis	Takanari Inoue	SoM
Nicole Muehleisen	2020	KSAS	Behavioral Biology	Opioid Treatment Program Moratoriums & Medication Access	Pia Mauro	Columbia University
Shaina Munin	2020	KSAS	Psychology	Stress and harm avoidance interact to modulate attentional capture	Howard Egeth	KSAS
Bayleigh Murray	2021	KSAS	Molecular & Cellular Biology	Far-Red Light Photoacclimation at the Dry Limit of Life	Jocelyne DiRuggiero	KSAS

Sanjana Murthy	2020	KSAS	Public Health Studies	Hospital Admissions After Living Kidney Donation: Long-Term Findings from a Multi-Center Cohort Study	Dorry Segev, Madeleine Waldram	SoM
Mohika Nagpal	2019	KSAS	Neuroscience	Epigenetic Editing of sema6a Promotor Rescues Transcallosal Dysconnectivity	Atsushi Kamiya, Yuto Hasegawa	SoM
Michael Natenzon	2019	WSE	Materials Science & Engineering	Analyte Sensing Organic Semiconductor Response Under High Stress Conditions	Howard Katz, Orla Wilson	WSE
Bronte Nevins	2019	KSAS	Public Health Studies	Hearing Their Voices: A Qualitative Study of Disconnection in Freddie Gray’s Baltimore	Stefanie DeLuca	KSAS
Christy Ng	2019	WSE	Materials Science & Engineering	Engineering a Self-Expandable Embolization Device	Hai-Quan Mao, Luo Gu, Christos Georgiades, Shin-Jae Lee	WSE, SoM
Hien Minh "Bruce" Nguyen Tran	2019	KSAS	Neuroscience	Neural Mechanisms for Object Discrimination in Big Brown Bats	Cynthia Moss, Angeles Salles	KSAS
Giuliana Nicolucci-Altman	2021	KSAS	International Studies	A Summer in Al-Quds	Sana Jafire	KSAS
Chidinma Nnadi	2019	KSAS	Biophysics	Probing the Effect of Sequence Variations on Vectorial Folding of the Oryza sativa Twister Ribozyme	Sarah Woodson	KSAS
Arinze Ochuba	2019	KSAS	Chemical & Biomolecular Engineering	First-Principles Study of Conductive Metal-Organic Frameworks for High Power Energy Storage	Tim Mueller	WSE
Richard Oh	2019	WSE	Chemical & Biomolecular Engineering	Exploring the Regenerative Capacity of the Sciatic Nerve in a Mouse Model	Xuewei Wang	SoM
Rose Ole-Kuyan	2020	KSAS	Anthropology	What is “Life”: Understanding Words and Signs at D.C. Protest Marches	Clara Han, Veena Das	KSAS
Michelle Ondari	2019	KSAS	Public Health Studies	Evaluation of Nurse-Anesthetist Training Program to Determine Effectiveness of Rapid-Cycle Deliberate Practice Simulation-Based Training, Compared to Tradition Model of Simulation Training	John Sampson	SoM
Richard Oh	2019	KSAS	Public Health Studies	Examining the Potential of Social Network Interventions to Improve HIV Care and Engagement Amongst Women Who Use Drugs in Tanzania	Haneefa Saleem	BSPH
Riley O'Toole	2021	KSAS	Molecular & Cellular Biology	Identifying the Risk and Resilience Factors that Protect or Degrade Pyschological Well-Being and Mental Health	Anjana Patel, Dewleen Baker	Office of Veterans Affairs
Alejandra Pablos	2019	KSAS	Molecular & Cellular Biology	Gene Expression Changes Throughout Induction of a Murine Pancreatic Cancer Model	Emily Lo, Andy Feinberg	SoM
Clarissa "Chloe" Pacyna	2019	KSAS	Biophysics	Pan-cancer analysis of transposable element expression	Kathleen Burns, Wan Rou Yang	SoM
Supriya Paidemarry	2019	KSAS	Molecular & Cellular Biology	Development of a Simple, Robust Assay to Isolate CRISPR Edited Strains and to Explore Transgenic Silencing Mediated by piRNAs	Geraldine Seydoux	SoM

Shaina Palmer	2019	WSE	Materials Science & Engineering	Designing a biodegradable tough tissue adhesive for treatment of internal wounds	Luo Gu	WSE
Aisvarya "Ash" Panakam	2019	KSAS	Public Health Studies	Competitive Antagonism among Hepatitis C Virus E1-E1 Envelope Specific Broadly Neutralizing Antibodies	Justin Bailey	SoM
Diva Parekh	2019	KSAS	Physics	Cosmology Large Angular Scale Surveyor	Chuck Bennett, Tobias Marriage	KSAS
Daniel Park	2019	KSAS	Public Health Studies	Social Media and Health Communications		
Kristen Park	2020	KSAS	Neuroscience	Identifying Novel Genes that Regulate the Circadian Timing of Sleep	Mark Wu, Sang Soo Lee, Ian Blum	SoM
Bradley Parsons	2020	KSAS	Public Health Studies	Sleep Patterns in Student Athletes	Luu Pham	SoM
Milan Patel	2020	KSAS	Biophysics	Project Healthy Schools - Sri Lanka: Examining the International and Cross-Cultural Impact of a Diabetes Prevention Program	Gilbert Burnham	BSPH
Luyi Peng	2020	KSAS	Molecular & Cellular Biology	Loss of p53 functions in Multiple Myeloma characterization	William Matsui	SoM
Rebecca Penner	2021	KSAS	Film & Media Studies	How to Care for Strangers - A Short Film	Meredith Ward	KSAS
Isabella Perone	2019	KSAS	Neuroscience	Exploring the Role of Sirt3 in the Pathogenesis of Alzheimer's Disease	Mark Mattson, Aiwu Cheng	SOM, NIH-NIA
Brianna Persaud	2019	KSAS	Public Health Studies	The Potential Effects of Ethyl Maltol + Metals in the Human Body	Joseph Bressler	KKI
Sanjana "Ana" Pesari	2021	KSAS	Molecular & Cellular Biology	ESCRT-dependent trafficking is required for viability of clathrin-mediated endocytosis mutants and efficient cargo trafficking from the plasma membrane	Kyle Hoban, Beverly Wendland	KSAS
Gianni Petrozzino	2019	KSAS	Neuroscience	Lesion Symptom Mapping	Brenda Rapp	KSAS
Justine Pinkerton	2019	KSAS	International Studies	Immersive German Language Study in Schwäbisch Hall, Germany		
Ramya Prabhakar	2019	KSAS	International Studies	Leaving the Past Behind: Examining Identity Shifts Among Palestinian-Jordanians in Amman	Matthew Kocher	SAIS
Addison Quinones	2019	KSAS	Neuroscience	Uncovering the Prognostic Role of Neurotransmitter N-Acetyl-Aspartyl-Glutamate in Cancer	Anne Le	SoM
Gugan Raghuraman	2019	KSAS	Neuroscience	Multi-kinase CDK inhibitors THZ1 and TG02 Synergistically Enhance the Tumor-Suppression Activity of EGFR-inhibitor Afatinib in Chordomas, In Vitro	Tianna Zhao, Gary Gallia	SoM
Allegra Rapoport	2020	KSAS	Public Health Studies	Re-Evaluating the Definition of Sarcopenic Obesity to Best Demonstrate Deficits in Physical Functioning	Joshua Baker	University of Pennsylvania
Madison Reed	2019	KSAS	Molecular & Cellular Biology	Production and characterization of components composing a model of immune antigen processing	Scheherazade Sadegh-Nasseri, Srona Sengupta	SoM



Juliana Rico	2019	KSAS	Public Health Studies	Addressing social determinants of health by connecting community members to social services		Health Leeds
Eric Rong	2021	WSE	Electrical Engineering	Scalable Spray-Cast Deposition of Colloidal Quantum Dot Solar Cells	Susanna Thon	WSE
Sofia Ryan	2019	KSAS	Public Health Studies	The Effect of HIV Knowledge and Attitudes on HIV Testing Acceptance among Patients in an Emergency Department in the Eastern Cape, South Africa	Bhakti Hansoti	SoM
Ashley Sablich	2019	KSAS	Neuroscience	Identifying Genetic Variations in Neurodevelopmental Disorders	Jonathan Pevsner	KKI
Rogelio Schouten-Hernandez	2019	KSAS	Behavioral Biology	Role of the superior colliculus in sensorimotor integration	Kirsten Bohn	KSAS
Julia See	2020	KSAS	Behavioral Biology	Brain and Cancer Interaction	Shinichi Kano	SoM
Sohan Shah	2022	KSAS	Neuroscience	Long-Term Outcomes of a Novel Fractionated Regimen Using Stereotactic Radiosurgery for Trigeminal Neuralgia	Sergei Castaneda	Christiana Care Health System
Ayaan Shaikh	2020	KSAS	Public Health Studies	Campaign on Toxic Chemical Exposure- A Public Health Initiative	Emily Scarr, Kyanna Cadwallader	Maryland PIRG
Christopher Shallal	2021	WSE	Biomedical Engineering	An Adaptive Socket Uses Smart Polymers to Reduce Pressure Loading for Upper Limb Prosthesis	Nitish Thakor	SoM
Rosa Shi	2020	KSAS	Neuroscience	PARIS (ZNF746) mediates $\alpha$ -synuclein induced neurodegeneration: Relevance to sporadic PD	Saurav Brahmachari, Ted Dawson	SoM
Jonathan Sileira	2019	KSAS	International Studies	Service Learning & Luso-African Society in Cape Verde	Flavia De Azeredo-Cerqueira	KSAS
Pranit Singh	2019	KSAS	Neuroscience	Aging Effects on the Structural Connectivity of White Matter Tracts and Cognitive Control	Thomas Hinault, Susan Courtney	KSAS
Shikha Singh	2020	KSAS	Neuroscience	Project Healthy Schools - Sri Lanka: Examining the International and Cross-Cultural Impact of a Diabetes Prevention Program	Gilbert Burnham	BSPH
Shreya Singireddy	2019	KSAS	Molecular & Cellular Biology	Dissecting the Temporal and Spatial Specificity of the microRNA Argonautes ALG-1 and ALG-2	Himani Galagali, John Kim	KSAS
Lauren "Mickey" Sloat	2021	KSAS	Molecular & Cellular Biology	Expression and purification of synaptonemal complex components in vitro	Yumi Kim	KSAS
Brianna So	2019	KSAS	Sociology	Housing Instability, Sociodemographic Factors, and Hypertension in an Urban Population	Deidra Crews	SoM
Youlim Song	2020	KSAS	Psychology	Rumination Beliefs Predict Internalizing Disorders in College Students: The Mediating Role of Rumination	Alison Papadakis	KSAS
Young Jun Song	2020	KSAS	Neuroscience	Cocaine Elicits Stimulant Effects and Degrades Dopamine Transporter by Autophagy	Solomon Snyder, Maged Harraz	SoM
Alexandria Soto	2019	KSAS	Neuroscience	Optimizing Patient Flow: Is 24 Hour Intensive Monitoring Post-tPA Really Necessary?	Elisabeth Marsh	SoM

Manjari Sriparna	2019	KSAS	Molecular & Cellular Biology	Lymphocyte-activation gene 3 (LAG3) Necessary to a-synuclein Induced Neurodegeneration	Xiaobo Mao, Ted Dawson	SoM
Michaela "Kaley" Sten	2019	KSAS	Earth & Planetary Sciences	Plant communities and soil characteristics in Baltimore's informal green areas	Meghan Avolio	KSAS
Michael Sun	2019	KSAS	Molecular & Cellular Biology	Development of an Enteroid Karyotyping Protocol	Julie In	SoM
Prakul Suresh	2020	KSAS	Neuroscience	Cognitive Role of NPTX2 in a Mouse Model of Alzheimer's Disease	Alena Savonenko	SoM
Gayatri Susarla	2019	WSE	Computer Science	Design of a Microcontroller-Based High-Speed In Vivo Neuroimaging System	Arvind Pathak	SoM
Kavya Tangella	2020	KSAS	Behavioral Biology	Understanding the Interaction of Thorase, Parkin, and Pink1 in Maintaining Mitochondrial Quality Control	George Umanah	SoM
Salma Tayel	2020	KSAS	Public Health Studies	Hospital Admissions After Living Kidney Donation: Long-Term Findings from a Multi-Center Cohort Study	Dorry Segev, Madeleine Waldram	SoM
Leya Teferi	2020	KSAS	Public Health Studies	Treatment Research for Hepatocellular Carcinoma	Rhea Wyse	BSPH
Christian Tessman	2021	WSE	Materials Science & Engineering	Designing a biodegradable tough tissue adhesive for treatment of internal wounds	Luo Gu	WSE
Genevieve Thomas	2020	KSAS	Film & Media Studies	Over Easy - A Short Film	Meredith Ward	KSAS
Tiffany Thomas	2020	KSAS	Public Health Studies	Expanding Live Donor Kidney Transplantation for Patients on the Kidney Transplant Waitlist through Advocacy Training and Social Media	Andrew Cameron, Arthur Love, David Helfer	SoM
Samanta Torres Bertorelli	2019	KSAS	Neuroscience	Neonatal Sleep Fragmentation and the Effects on Neuroinflammation and Behavior	Sujatha Kannan, Elizabeth Smith	SoM
Michael Tritsch	2020	KSAS	Archaeology	Material Culture Investigation in the Precinct of the Temple of Mut: Analysis of the Contexts of Painted Mud Brick and the Possible Connection to Domestic Worship during the Eighteenth Dynasty	Betsy Bryan	KSAS
Michael Tritsch	2020	KSAS	Archaeology	Preliminary Faunal Analysis of Free African American Communities in Easton, Maryland	Betsy Bryan	KSAS
Chia-Chen "Wendy" Tsai	2020	KSAS	Public Health Studies	Cell-Phone-Based Measurement of Protein Content in Moringa and Local Foods	Jed Fahey, Anita Panjwani	SoM, BSPH
AJ Tsang	2019	KSAS	Public Health Studies	An Analysis of Health Inequities and Health Policy in Colonial-Era Algeria	Kristin Cook-Gailloud	KSAS
Kevin Tu	2021	WSE	Biomedical Engineering	Successes and Challenges in Developing Image Processing Strategies to Quantify iPSC-derived Cardiomyocyte Features	Leslie Tung, Justin Lowenthal	SoM
Delaney Ubellacker	2019	KSAS	Cognitive Science	Learning the Arabic Alphabet: Behavioral and Neural Effects on Letter Representation	Bob Wiley	KSAS
Arno "Ziggy" Uvin	2019	KSAS	Neuroscience	Preference Reversal in Multi-Attribute Decision Making	Veit Stuphorn, Erik Emeric	SoM, KSAS

Amy van Ee	2022	WSE	Biomedical Engineering	Transplanted Volar Fibroblasts to Nonvolar Skin Induce Ectopic Volar Skin Identity	Seakwoo Lee, Luis Garza	SoM
Bijan Varjavand	2019	WSE	Materials Science & Engineering	Graph Statistics Applications in Materials Science	Joshua Vogelstein	WSE
Vikram Vasan	2020	KSAS	Public Health Studies	Disinfectant resistance in environmental methicilin-resistant Staphylococcus aureus (MRSA) collected from homes of people diagnosed with a community-onset MRSA infection	Meghan Davis	BSPH
Reah Vasilakopoulos	2020	KSAS	Public Health Studies	Examining the Opioid Overdose Crisis Through a Lens of Structural Racism, Specifically Considering Incarceration and Violence	Harriet Smith	Baltimore Harm Reduction Coalition
Mayuri Viswanathan	2019	KSAS	Neuroscience	Complement Protein C3 mediated Retinal Degeneration in Multiple Sclerosis	Jing Jin, Peter Calabresi	SoM
Karen Wang	2019	KSAS	Cognitive Science	Comparison of reward prediction error coding in ventral pallidum and ventral tegmental area	David Ottenheimer	SoM
Caroline West	2020	KSAS	International Studies	Linguistic and Cultural Immersion in Salamanca, Spain	Naiara Martinez-Velez	KSAS
Courtney Whilden	2020	KSAS	Neuroscience	Understanding the Role of Cortical Layer 6 in Sensory Perception	Solange Brown	SoM
Kathleen Whittington	2021	KSAS	Molecular & Cellular Biology	Targeting and Transforming 277.2 Small RNA in Haloferax Volcanii Archa	Diego Rivera Gelsinger, Jocelyn DiRuggiero	KSAS
Brandon Wolfe	2020	KSAS	Public Health Studies	Improving Digital Healthcare Services to Enhance Doctor-Patient Communication and Increase Patient Satisfaction and Quality of Care	Katherine Henry	KSAS
Kimberly Wong	2019	KSAS	Cognitive Science	The Devil's in the g-tails: Deficient letter-shape knowledge and awareness despite massive visual experience	Michael McCloskey	KSAS
Yangyiran "Wendy" Xie	2019	KSAS	Molecular & Cellular Biology	Chemotherapy-Induced Breast Cancer Stem Cell Enrichment	Gregg Semenza, Haiquan Lu	SoM
Mingyu Yang	2019	WSE	Materials Science & Engineering	Sustained protein release from electrospun polymeric fibers	Hai-Quan Mao, Chenhu Qiu	WSE
Tony Yang	2020	WSE	Computer Science	Descriptive analysis of engagement measures on online health forums: Babycenter.com as a case study	Casey Overby Taylor	SoM
Yenny Yang	2019	KSAS	Public Health Studies	Bloomberg Initiative for Global Road Safety	Shirin Wadhvaniya	BSPH
Jiahong "Jaycee" Yao	2019	KSAS	International Studies	Parental migration and its impact on left-behind children in rural China	Sydney Van Morgan, Kate Bruffett, Joel And	KSAS
Alexandria Yu	2019	KSAS	Public Health Studies	Mary Harvin Transformation Center: Addressing disparities in an aging population: The impact of direct hospital, community, and faith organization presence	Panagis Galiatsatos	SoM
Alexandria Yu	2019	KSAS	Public Health Studies	F l o r a: Hydrangea edition	Frishan Paulo	SoM

Xintong "Cindy" Yuan	2019	KSAS	Neuroscience	A New Behavioral Framework for Testng Novel Value Variables Enabling Temporal Decision-Making	Marshall Shuler, Tanya Marton	SoM
Emily Zhang	2020	KSAS	Behavioral Biology	STAT3 deficiency in keratinocytes promotes serum IgE production in response to Staphylococcus aureus epicutaneous exposure	Lloyd Miller, Ed Bouwer	SoM, WSE
Yueqi "Bill" Zhang	2021	WSE	Biomedical Engineering	The Role of Monocytes in Allergic Asthma and Their Potential as Cellular Immunotherapy	Nicola Heller	SoM
Xuwen "Alice" Zheng	2020	KSAS	Mathematics	A Novel Approach to B Cell Receptor Sequencing	Janelle Montagne, Ben Larman	SoM
Angela Zhu	2021	WSE	Chemical & Biomolecular Engineering	Engineering a Superior VEGF Antagonist to Reverse Ocular Diseases	Jamie Spangler, Rakeeb Kureshi	WSE, SoM
Peter Zhu	2021	KSAS	Psychology	Development of Disjunctive Syllogism as a Word-Learning Strategy	Justin Halberda	KSAS
Corina Zisman	2019	KSAS	Psychology	Are Parents of Children with a Developmental Disorder Interested in Opportunities for Research?	Luther Kalb, Alison Pritchard, Steve Drigotas	KKI, SoM, KSAS

DREAMS - 2018 Presenters							Apr 27 Division/ Institution
Presenter	Year	School	Primary Major	Project Title	Mentor/s		
Pascal Acree	2020	WSE	Biomedical Engineering	Kubanda Cryotherapy	Nicholas Durr		WSE
Emma Adams	2019	WSE	Computer Science	Oracle: knowledge discovery engine for the facilitation of complex queries and visualizations using natural language in sports and analytics	Anton Dahbura		WSE
Serwah Afranie	2020	KSAS	International Studies	Bologna: Culture and Populism	Sydney Van Morgan		KSAS
Serwah Afranie	2020	KSAS	International Studies	SAIS Summer in Bologna	Sydney Van Morgan		KSAS
Alex Ahn	2018	WSE	Computer Science	Oracle: knowledge discovery engine for the facilitation of complex queries and visualizations using natural language in sports and analytics	Anton Dahbura		WSE
Camilla Akbari	2018	KSAS	Medicine, Science & the Humanities	Echoes of the Healer's Mesa: Ancient Influences and Contemporary Practices in Peruvian Medicine	Lisa DeLeonardis		KSAS
Maya Alexis	2020	KSAS	Neuroscience	Intraventricular administration of TH2 cells into the CNS ameliorates the inhibitory effects of IFNg on remyelination	Peter Calabresi		SoM
Emily Always	2018	KSAS	Neuroscience	C11orf46/ARL14EP Neurodevelopmental Risk Gene Regulates Transcallosal Connectivity	Atsushi Kamiya		SoM
Soobin "Lily" An	2018	KSAS	Public Health Studies	Preventing Fire Deaths in Baltimore City	Wendy Shields		BSPH
Andrew Arceo	2018	WSE	Materials Science & Engineering	TiNiCr Alloy development for Additive Manufacturing	Jonah Erlebacher		WSE
Siddharth Arun	2020	WSE	Biomedical Engineering	A Novel Approach to OCT Segmentation of Small Airways	Wu Yuan, Xingde Le		SoM
Jennifer Aufill	2018	KSAS	Public Health Studies	Improving communication for accompanied older adults with a cognitive impairment diagnosis	Jennifer Wolff		BSPH
Leena Aurora	2019	KSAS	Public Health Studies	Community Organizing to Change Public Health Behavior	Abby Neyenhouse		BSPH
Karissa Avignon	2019	KSAS	Public Health Studies	Intimate Partner Violence in Latina Immigrant Women	Bushra Sabri		SoN
Motolani Ayeni	2018	KSAS	Public Health Studies	Challenges in Community Based Research: A Case Study of a Home Safety Intervention Trial	Wendy Shields		BSPH
Rajiv Ayyagari	2019	KSAS	Public Health Studies	Changing Behaviors to Prevent Repeat Childhood Injury: Interim Analysis	Andrea Gielen		BSPH
Karla Bachiller	2018	KSAS	Neuroscience	The Role of Brain-Derived Neurotrophic Factor (BDNF) Splice Variants in Hypothalamic Function and Feeding Behavior	Keri Martinowich, Kristen Maynard		SoM
Dylan Balter	2019	KSAS	Public Health Studies	An Examination of Racial Disparities in Inpatient Consultants	Rosalyn Stewart		SoM
Dylan Balter	2019	KSAS	Public Health Studies	An Examination of Maternal Stress and Risk Factors on Infant Birth Weight	Kristin Voegtline		SoM

Rasha Bara	2019	WSE	Materials Science & Engineering	Engineering a Biocompatible Hydrogel Device for the Current Treatment of Hemorrhages and Aneurysms	Hai-Quan Mao, Luo Gu, Christos Georgiades	WSE, SoM
Maria Bautista	2019	KSAS	Public Health Studies	The Health Leads Model: Addressing Food Supplement Benefits Denials	Lisa Folda	KSAS
Lauren Bernard	2020	KSAS	Public Health Studies	Assessing Health Behavior Change through Preventative Education and Empowerment for Peers (PEEPs)	Julia Greenspan	UA
Isaac Bernstein	2019	KSAS	Neuroscience	Inositol Polyphosphate Multikinase Inhibits Angiogenesis by Inositol Pentakisphosphate Induced HIF-1a Degradation	Solomon Snyder	SoM
Ansh Bhammar	2019	KSAS	Neuroscience	ForagerOne		
Pandurang Bharne	2019	KSAS	Neuroscience	Effect of a Kinase Inhibitor Library on Cancerous Cell Line	Rong Li	SoM
Shubhayu Bhattacharay	2020	WSE	Biomedical Engineering	A feature-based approach to quantifying motor activity in critically ill neurological patients using an unobtrusive wearable sensor matrix	Robert Stevens	SoM
Aaron Bickert	2018	KSAS	Neuroscience	Dertermining the role of the long non-coding RNA Pantr1 in cortical development	Solange Brown	SoM
Katelyn Billings	2018	KSAS	Public Health Studies	Prevalence of Type II Diabetes in Non-Hispanic Black and White Men by Obesity Status in the United States	Roland Thorpe	BSPH
AJ Bizub	2018	WSE	Materials Science & Engineering	Design Aspects of a Rapid, Sensitive Biosensor for MRSA Detection Using Graphene Oxide Particles for Signal Amplification	Howard Katz	WSE
Tara Blair	2018	WSE	Biomedical Engineering	Kubanda Cryotherapy	Nicholas Durr	WSE
Ebony Blaize	2018	WSE	Biomolecular Engineering	Neurodevelopmental Effects of Anesthetics	Cyrus Mintz	SoM
Lena Bless	2018	KSAS	Neuroscience	Early Embryonic Microglia Impairment impacts Adult Social Behaviors	Akira Sawa	SoM
Brandon Block	2017	KSAS	Political Science	Older Pathways: An Exxploration of the Blues Music of North Carolina	Hollis Robbins	KSAS
Nick Bodner	2018	WSE	Materials Science & Engineering	Developing a membrane-free alkaline fuel cell	Anthony Shoji Hall	WSE
Kelly Bowen	2017	KSAS	Neuroscience	Stress granule assembly disrupts nucleocytoplasmic transport	Jeffrey Rothstein	SoM
Kavya Boyapati	2020	KSAS	Molecular & Cellular Biology	The impact of a transitional volunteer program on Emergency Department patient experience and patient outcomes	Arjun Chanmugam	SoM
Biobele Braide	2018	KSAS	Neuroscience	Investigating Chronic Visceral Hypersensitivity in a Mouse Model of Social Stress	Kellie Tamashiro	SoM
Emma Brennan	2019	KSAS	Public Health Studies	An Examination of Maternal Stress and Risk Factors on Infant Birth Weight	Kristin Voegtline	SoM

Erin Brush	2019	KSAS	Molecular & Cellular Biology	Neural Representation of Braille Reading in Congenitally Blind Individuals: An fMRI study	Marina Bedny	KSAS
Alexandra "Allie" Bull	2017	KSAS	Environmental Science	LEEDing Olin Hall into the Future	Alexios Monopolis	KSAS
Eleanor "Ellie" Burton	2018	KSAS	Biophysics	Understanding a Promising Drug Target: Computational Analysis of Essential Outer Membrane Protein, Bama	Karen Fleming	KSAS
Austin Cardona	2020	KSAS	International Studies	Study Abroad in Salamanca, Spain	Kate Bruffet	KSAS
Jess Carney	2018	KSAS	Environmental Science	LEEDing Olin Hall into the Future	Alexios Monopolis	KSAS
Michael Carter	2018	KSAS	Molecular & Cellular Biology	The Flocculus as it Relates to Wing Size in Birds	Gabriel Bever, Amy Balanoff	SoM
Isabella Castillo	2020	KSAS	Psychology	Investigating the Effect of Sex-trafficking Education on Pornography Consumption	William Smedick	WSE
Youngjae Cha	2019	KSAS	Public Health Studies	Investigating the Pathology and Toxicity of a-synuclein in Parkinson's Disease and Multiple-System Atrophy	Ted Dawson	SoM
Alyssa Chalmin	2019	KSAS	Molecular & Cellular Biology	The Role of Platelets in the Pathogenesis of Mouse Cytomegalovirus	Kelly Metcalf Pate	SoM
Luanna Chan	2020	KSAS	Public Health Studies	A Leading Public Health Issue in Honduras: The Lack of a Proper Sanitation System	Ana Banegas	Global Brigades
Weilin Chan	2018	KSAS	Behavioral Biology	Regulation of the Immediate Early Gene Zif268 (Egr1) by Synaptic Zinc and Acute Cocaine Exposure	Michael Michaelides	NIH
Adam Chang	2019	KSAS	Neuroscience	Shorter ICU Stays? The Majority of Post-IV tPA Symptomatic Hemorrhages Occur Within 12 Hours of Treatment	Elisabeth Marsh	SoM
Melissa Chang	2019	KSAS	Neuroscience	Understanding the Role of Novel Protein Thorase in Regulating Pick1-GluA2 Interactions	George Umanah, Valina Dawson	SoM
Grace Chen	2018	KSAS	Neuroscience	Purified human ipsc-derived muscle stem cell transplantation results in better muscle regeneration	Congsha Sun, Kathryn Wagner	SoM
Sabrina Chen	2019	KSAS	Neuroscience	Altered Event Related Potentials During Novel Gesture Learning in Children with High Functioning Autism	Josh Ewen, Ajay Pillai, Danielle McAuliffe	KKI
Tiffany Chen	2018	WSE	Biomedical Engineering	Improving Stem Cell Transplantation: Development of a Novel Acetylsalicylated Methylcellulose-Based Hydrogel Scaffold for Regenerative Medical Applications	David Nauen	SoM
Tracy Chen	2018	KSAS	Public Health Studies	Health Leads	Lisa Folda	KSAS
Yuxi Chen	2019	KSAS	Neuroscience	Circuit Basis of Sensorimotor Adaptation	Daniel O'Connor	SoM



Amber Chen-Goodspeed	2018	KSAS	History of Science, Medicine & Technology	Linking peptic ulcers to bacterial ifection: An analysis of the process of scientific discovery	Sharon Kingsland	KSAS
Amy Chi	2018	WSE	Mechanical Engineering	Oxygen Fingerprints of Variability in the Atlantic Meridional Overturning Circulation - An intermodel comparison	Anand Gnanadesikan	KSAS
Sherry Chiu	2018	WSE	Electrical Engineering	Antenna Arrays for Wireless Power Transfer	Ralph Etienne-Cummings	WSE
Kevin Choi	2018	KSAS	Public Health Studies	TLC: Peer Mentor Training for HCV Seropositive Current and Former Injection Drug Users	Karin Tobin	BSPH
Jennifer Chong	2020	KSAS	Public Health Studies	The importance of improved sanitation in the Honduras	Lisa Folda	KSAS
Jae Wook Chung	2018	WSE	Chemical & Biomolecular Engineering	Biomimetic Design of Artificial Lymph Nodes for T cell Immunotherapy	Jonathan Schneck, John Hickey	SoM
Ellie Clawson	2019	KSAS	Neuroscience	The Role of the Superior Colliculus in Audiomotor Integration in Echolocating Bats	Cynthia Moss, Brittney Boubilil	KSAS
Lindsey Cohen	2018	KSAS	Public Health Studies	Bystander Intervention Training	Alyse Campbell	UA
Brendan Connolly	2018	KSAS	Neuroscience	Vocal Learning in Broad Eared Free-Tailed Bats, Nyctinomops laticaudatus	Kirsten Bohn	KSAS
Wade Coomer	2018	KSAS	Neuroscience	JHU-083 Selectively Blocks Glutaminase Activity in Brain CD11b+ cells and Prevents Depression-associated Behaviors Induced by Chronic Social Defeat Stress	Atsushi Kamiya	SoM
Therese Cordero	2020	KSAS	Neuroscience	Investigating the Effect of Sex-Trafficking Education on Pornography Consumption	William Smedick	SoM
Luis Cortina	2018	KSAS	Neuroscience	Macrophage migratory inhibitory factor (MIF) carried in extracellular vesicles induces MDSC formation in glioblastoma	Hita Adwanikar, Ian Parney	KSAS, Mayo Clinic
Will Cosgarea	2018	KSAS	Environmental Science	Rainwater Harvesting at Olin Hall: The Conflation of Water Conservation and Sustainable Design	Alexios Monopolis	KSAS
Julia Costacurta	2020	WSE	Biomedical Engineering	Designing Feedback Controllers for Human-Prosthetic Systems Using H-Infinity Model Matching	Sridevi Sarma	WSE
Himanshu Dashora	2018	WSE	Biomedical Engineering	Investigating Fibroblast and Stem Cell-Derived Cardiomyocyte Interactions on Decellularized Myocardial Tissue Slices	Leslie Tung	SoM
Simidele Davis	2018	KSAS	Neuroscience	Emerging Toward a Biological Framework for Understanding the Neocortical Connectome	William Gray Roncal	APL
Callie Deng	2018	WSE	Biomedical Engineering	Designing a High Magnification, Multi-Contrast Miniature Microscope	Arvind Pathak	SoM
Jose Carlos Diaz	2019	WSE	Chemical & Biomolecular Engineering	MOFs as Sulfur Storage units for Improved Performance of Li-S Batteries	Sara Thoi	KSAS

Robin Dickey	2018	KSAS	International Studies	Collective memory and memorial sites in Germany	Hanno Balz	KSAS
Idy Ding	2018	KSAS	Psychology	Music & Memory - Taking a Modern Approach to Music Therapy for Individuals with Dementia	Laura Foster	KSAS
Thomas DiSorbo	2020	WSE	Biomedical Engineering	Optimizing Microfluidic Droplet Sorting and Droplet Fusion for Single-Bacterial Phenotyping Assays	Jeff Wang	WSE
Aliya Doctor	2018	KSAS	International Studies	Discovering Creative Strategy through Sage Corps	Sydney Morgan	KSAS
Sydney Doman	2018	KSAS	Neuroscience	Early Detection of Hypothermic Neuroprotection Using T2-Weighted MRI in a Mouse Model of Hypoxic Ischemic Encephalopathy	Mary Ann Wilson	SoM
Mesgan Donnelly	2017	KSAS	Neuroscience	Glucagon-Like Peptide 1 As a Predictor of Clinical Depression: Proposal for a Novel Diagnostic Tool	Esther Oh	SoM
Emily Dorffer	2018	KSAS	Writing Seminars	(Dis)Ability: A Short Story Anthology	Jean McGarry	KSAS
Mia Dunn	2021	WSE	Materials Science & Engineering	Designing a genetc algorithm to find low energy surface structures	Tim Mueller	WSE
Chelsea Egbuna	2019	KSAS	Behavioral Biology	An Examination of Maternal Stress and Risk Factors on Infant Birth Weight	Kristin Voegtline	SoM
Annie Elander	2017	KSAS	Psychology	The Influence of Cortisol in Cognitive Health and Alzheimer's Disease	Arnold Bakker	SoM
Khalid Elawad	2018	WSE	Materials Science & Engineering	Developing a Tunable Bio-Ink for Versatile 3D printing	Sung Hoon Kang, Yun Chen	WSE
Aura Elias	2018	KSAS	Neuroscience	The Impact of Mindfulness and tDCS on Working Memory and Attention	Susan Courtney	KSAS
Madelaine Else	2018	WSE	Materials Science & Engineering	Designing a genetic algorithm to find low energy surface structures	Tim Mueller	WSE
Ikechukwu Enenmoh	2018	KSAS	Behavioral Biology	Predictability of Target Trajectory in the Big Brown Bat	Cynthia Moss	KSAS
Lauren Fang	2018	WSE	Biomedical Engineering	Development and Pilot Evaluation of an Automated Method of Ambu-Bag Ventilation for use in Low-Resource Settings	Nicole Shillkofski	SoM
Lilly Fang	2017	KSAS	Molecular & Cellular Biology	HIF2a Regulation of Extracellular Matrix in Smooth Muscle Cells	Sharon Gerecht	WSE
Rebecca Fang	2019	KSAS	Chemistry	Free Energy Stabilities of Novel Tandem Repeat DNABinding Helix-hairpin-helix Domains: Implications in Protein Therapeutics	Doug Barrick	KSAS
Regina Ferrara	2018	KSAS	Environmental Science	Sustainable Behavior Change in Olin Hall: Utilization of Community-Based Social Marketing to Target Food Waste, Environmental Wellness and Green Events	Alexios Monopolis	KSAS
Anna Fiedor	2021	KSAS	Public Health Studies	Depression and Anxiety in New Mothers vs Experienced Mothers	Kristin Voegtline	SoM
William Franceschi	2018	WSE	Biomedical Engineering	Using Computational Models to Simulate Stem Cell Therapy in Pigs with Myocardial Infarction	Natalia Trayanova	WSE

Scott Frankenthaler	2018	KSAS	Public Health Studies	WHOLE Donor Study	Dorry Segev	SoM
Serena Frechter	2018	KSAS	International Studies	Advanced Advocacy Mission to Israel	Sydney Van Morgan	KSAS
Tina Gao	2021	WSE	Electrical Engineering	Plasmonic Extinction Spectra of Aluminum Nanoparticles Decorated with Silver	Susanna Thon	WSE
Akanksha Girish	2020	WSE	Biomedical Engineering	Early Detection of Hypothermic Neuroprotection Using T2-Weighted MRI in a Mouse Model of Hypoxic Ischemic Encephalopathy	Mary Ann Wilson	SoM
Sashini Godage	2018	KSAS	Molecular & Cellular Biology	Evaluation of the Efficacy of Text Message Interventions Targeting NYC Taxi Drivers	Lisa Decamp, Francesca Gany	SoM, Cornell University
Juan Gomez	2020	KSAS	International Studies	Activism in Bologna	Kate Bruffet	KSAS
Juan Gomez	2020	KSAS	International Studies	Bologna Summer Program Experience	Kate Bruffet	KSAS
Victoria Gramuglia	2018	KSAS	Environmental Science	Sustainable Behavior Change in Olin Hall: Utilization of Community-Based Social Marketing to Target Food Waste, Environmental Wellness and Green Events	Alexios Monopolis	KSAS
Lauren Granata	2018	KSAS	Behavioral Biology	The Medial Prefrontal Cortex in Sustained Attention and Social Recognition Memory	Catherine Davis	SoM
Hongyi "Charlie" Guan	2020	KSAS	Chemical & Biomolecular Engineering	Copper-supported Frameworks for Wastewater Purification and Nutrient Recovery	Chao Wang	WSE
Michelle Guo	2020	KSAS	Public Health Studies	Improving Sanitation and Health Outcomes in Rural Honduras	Lisa Folda	KSAS
Amolika Gupta	2019	KSAS	Neuroscience	BDNF-TrkB signaling in oxytocin neurons contributes to maternal behavior in mice	Kristen Maynard	SoM
Ananya Gupta	2019	WSE	Biomedical Engineering	Effects of Hypoxia on Cardiac Lineage Specification during Differentiation from Induced Pluripotent Stem Cells (iPSCs)	Sharon Gerecht	WSE
Omar Hafez	2019	KSAS	Neuroscience	The computational biology of Kv1.1 channelopathies	Allan Gottschalk	SoM
Jane Han	2018	KSAS	Public Health Studies	Applied Experience	Wendy Shields	BSPH
Matthew Hans	2018	KSAS	Environmental Science	Rainwater Harvesting at Olin Hall: The Conflation of Water Conservation and Sustainable Design	Alexios Monopolis	KSAS
Grace Hao	2018	WSE	Materials Science & Engineering	Development and Application of a 2D In Vitro EPR Model for Characterization of Cancer Nanomedicines	Peter Searson	WSE
William He	2020	KSAS	Public Health Studies	Exercise Intervention and mtDNA-CN	Christina Castellani	SoM
Leyla Herbst	2019	KSAS	Public Health Studies	Intraventricular administration of TH2 cells into the CNS ameliorates the inhibitory effects of IFNg on remyelination	Peter Calabresi	SoM

Carrie Hetzel	2019	KSAS	Molecular & Cellular Biology	Patterns of Gene Expression in Latently Infected Resting CD4+ T Cells from HIV Infected Patients	Andrew Timmons	SoM
Austin Hopkins	2018	KSAS	Physics	Simulating Nonlinear Elongation Flows in Entangled Polymers	Mark Robbins	KSAS
Jasmine Hu	2021	WSE	Materials Science & Engineering	TiNiCr Alloy development for Additive Manufacturing	Jonah Erlebacher	WSE
Kathy Hu	2020	WSE	Biomedical Engineering	A Novel Sleep Stage Scoring System: Integrating Expert-Based Features with The Generalized Linear Model	Sridevi Sarma	WSE
Jim Huang	2019	KSAS	Public Health Studies	Promoting a Vibrant Food System in Baltimore	Keeve Nachman	BSPH
Patrick Huie	2021	WSE	Computer Science	Continuous Finger Position Decoding for Clinical Applications	Ralph Etienne-Cummings	WSE
Kellie Hunn	2018	KSAS	Public Health Studies	US Disaster Science: An Ontological View	Lauren Sauer	SoM
June Ho Hwang	2019	KSAS	Molecular & Cellular Biology	Investigating the role of protein phosphatase 2C in meiotic chomosome dynamics	Yumi Kim	KSAS
Nicole Israel-Meyer	2018	KSAS	Environmental Science	Remote Sensing Analysis of the Lake Chilwa Basin, Southern Malawi	Benjamin Zaitchik	KSAS
Nicole Israel-Meyer	2018	KSAS	Environmental Science	Thinking Outside the Box: Capitalizing on Olin's Outdoor Spaces	Alexios Monopolis	KSAS
Yash Jain	2019	KSAS	Molecular & Cellular Biology	A Venture to Augment Global Disease Surveillance		
Yash Jain	2019	KSAS	Molecular & Cellular Biology	Biochemical analysis of UHRF1 binding to differentially methylated DNA	Srinivasan Yegnasubramanian	SoM
Yash Jain	2019	KSAS	Molecular & Cellular Biology	ForagerOne		
Alizay Jalisi	2018	KSAS	Molecular & Cellular Biology	Viral Bcl-2 Homologs Change Membrane Curvature in Mammalian Hosts	Evangelios Moudrianakis, J. Marie Hardwick	KSAS, BSPH
Jihoon Jang	2020	WSE	Biomedical Engineering	Behavioral evidence for a relationship between moving and holding via a neural integrator	Reza Shadmehr, Scott Albert	SoM
Natalie Japlon	2019	KSAS	Public Health Studies	Increasing Engagement Through Healthcare Information Technology	Lisa Folda	KSAS
Kevin Jin	2020	KSAS	Public Health Studies	Odorant compounds modulate stiffness of human prostate cancer cells	Steven An	BSPH
Hailey Jordan	2018	KSAS	Neuroscience	ForagerOne		
Aditya Joshi	2020	KSAS	Neuroscience	A feature-based approach to quantifying motor activity in critically ill neurological patients using an unobtrusive wearable sensor matrix	Jonathan Schneck, John Hickey	SoM
Vivian Jou	2019	KSAS	Molecular & Cellular Biology	Determining NR2E1's endogenous ligand and its effects in human cells	Young-Sam Lee	KSAS

Shaowen "Sarah" Ju	2019	SOM	Neuroscience	Examining the Activity and Localization of Endogenous SynGAP by Integrating GFP into SynGAP using the CRISPR-Cas9 System and the Proteomic screening of Interacting Partners of SynGAP using APEX2 Assay	Richard Huganir	SoM
Sue Junn	2018	KSAS	Neuroscience	Isoflurane Exposure During Brain Development Activates the mTOR Pathway	Cyrus Mintz	SoM
Ananya Kalahasti	2021	KSAS	Public Health Studies	Characterization of Malaria in Pregnancies in Rwanda	David Sullivan	BSPH
In Guk "Josh" Kang	2018	KSAS	Neuroscience	BASP1 is a high affinity cocaine receptor that mediates its stimulant effect	Solomon Snyder	SoM
Shrey Kapoor	2020	KSAS	Public Health Studies	Assessment of Interstitial Myocardial Fibrosis with Cardiac Magnetic Resonance pre-Contrast T1 Mapping in the Multi-ethnic Study of Atherosclerosis (MESA)	Joao Lima	SoM
Sabin Karki	2020	WSE	Biomedical Engineering	Optimized Design of an Acoustic Respiratory Simulator and Sensor	James West	WSE
Louis Kay	2018	KSAS	Environmental Science	LEEDing Olin Hall into the Future	Alexios Monopolis	KSAS
Kiara Kaylor	2018	KSAS	Molecular & Cellular Biology	Glutathione S-transferases: unexpected roles in astrocyte activation and astrocyte-microglia communication during brain inflammation	Shin-ichi Kano	SoM
Jayanidhi Kedda	2018	KSAS	Neuroscience	Investigating Memory Impairment in Parkinson's Disease	Arnold Bakker	SoM
Grace Kim	2018	KSAS	Molecular & Cellular Biology	HIF1-a and collagen alignment as biomarkers of breast cancer	Daniele Gilkes	SoM
Jieun "Stella" Kim	2019	KSAS	Neuroscience	Isoflurane Exposure During Brain Development Activates the mTOR Pathway	Cyrus Mintz	SoM
Minji Kim	2018	KSAS	Public Health Studies	Impact of Ketogenic Diet Therapy on Sodium Concentrations in Patients with Epilepsy on Antiseizure Drugs	Mackenzie Cervenka	SoM
Minji Kim	2018	KSAS	Neuroscience	Neural and behavioral basis of obesity on impulsivity	Susan Carnell	SoM
Nikki Knudsen	2019	KSAS	Neuroscience	An Examination of Maternal Stress and Risk Factors on Infant Birth Weight	Kristin Voegtline	SoM
Kelsey Ko	2019	KSAS	East Asian Studies	Asian American Identity in the Black and White Racial Moment: A Baltimore Case Study	Erin Chung	KSAS
Danielle Kramer	2019	WSE	Computer Science	Oracle: knowledge discovery engine for the facilitation of complex queries and visualizations using natural language in sports and analytics	Anton Dashbura	WSE
Connor Krill	2020	WSE	Materials Science & Engineering	TiNiCr Alloy development for Additive Manufacturing	Jonah Erlebacher	WSE
Abhijay Kumar	2018	KSAS	Molecular & Cellular Biology	Elucidating the role of deutersomes in multiciliogenesis in mammals	Andrew Holland, Michelle Levine	SoM

Shreya Kumar	2019	KSAS	Cognitive Science	Role of Light-Touch Mechanoreceptors in the Underlying Mechanisms of Neuropathic Pain	Michael Caterina, LaTasha Crawford	SoM
Grace Kuroki	2020	WSE	Biomedical Engineering	Kubanda Cryotherapy	Nicholas Durr	WSE
Grace Kuroki	2020	WSE	Biomedical Engineering	The impact of a transitional volunteer program on Emergency Department patient experience and patient outcomes	Arjun Chanmugam	SoM
Rohan Kuruvilla	2018	KSAS	Behavioral Biology	Discrimination of Acoustic Landmarks in Eptesicus Fuscus	Cynthia Moss	KSAS
Charlotte Kwok	2019	KSAS	Neuroscience	Acute Treatment of Prolonged and Repetitive Seizures Using Sublingual Administration of Lorazepam Intensol	Gregory Krauss	SoM
Allen Lai	2017	WSE	Materials Science & Engineering	Engineering a Biocompatible Hydrogel Device for the Current Treatment of Hemorrhages and Aneurysms	Hai-Quan Mao (WSE), Luo Gu (WSE), Christos Georgiades (SOM)	WSE
Cheng-I "Jeff" Lai	2019	WSE	Electrical Engineering	DNN-based Speech Bandwidth extension for speaker verification	Najim Dehak	WSE
Gitanjali Lakshminarayanan	2018	KSAS	Molecular & Cellular Biology	Investigating Epigenetic Regulation of Embryonic Plasticity	Xin Chen	KSAS
Sharon Lam	2018	KSAS	Neuroscience	Segmenting structural MRI in Alzheimer's disease	Linda Gorman	KSAS
Shravika Lam	2020	KSAS	Neuroscience	Upregulation of microRNA-124 Contributes to Overlapping Endophenotypes Between Schizophrenia and Bipolar Disorder	Akira Sawa	SoM
Maya Lapinski	2020	WSE	Biomedical Engineering	Development of a Genetic Reporter System to Spatiotemporally Track Adipose-Derived Stem Cell Differentiation During Vasularized Bone Regeneration	Warren Grayson	SoM
Kathy Le	2020	KSAS	Biophysics	The Paternal Age Effect and stem cell competition in Drosophila germline stem cells	Erika Matunis	SoM
Jared Lebron	2018	KSAS	Public Health Studies	Is Filing for Disability too difficult?	Lisa Folda	KSAS
Chanel Lee	2020	KSAS	Neuroscience	The Cognitive and Behavioral Sequelae of Near-Hanging in Youth	Marco Grados	SoM
Erica Lee	2017	KSAS	Neuroscience	Art Therapy Focus Groups for Children and Adolescents with Headaches	Carl Stafstrom	SoM
Wei Hao Lee	2020	KSAS	Chemistry	Anti-Markovnikov Aminofluorination of Unactivated Terminal Alkenes	Thomas Leckta	KSAS
Ashley Li	2020	WSE	Biomedical Engineering	Addressing Variation in Genetic Practice Patterns in Pediatric Oncology - a Quality Improvement Project	Joann Bodurtha	SoM
Kevin Li	2018	WSE	Materials Science & Engineering	MarrowMate: A Closed, Continuous Device to Expedite Bone Marrow Aspirations	Hai-Quan Mao	WSE
Michell Li	2020	KSAS	International Studies	Bologna: Culture and Populism	Sydney Van Morgan	KSAS
Michell Li	2020	KSAS	International Studies	SAIS Summer in Bologna	Sydney Van Morgan	KSAS

Victoria Li	2020	KSAS	International Studies	Study Abroad in Salamanca, Spain	Kate Bruffet	KSAS
Anna Lindsay	2019	WSE	Environmental Engineering	A Tale of Two Pathways: Profiling nitrifying and denitrifying bacteria in the Chesapeake Bay under normal and increased Nitrogen conditions with epicPCR	Sarah Preheim	WSE
Robyn Lipschultz	2020	KSAS	Behavioral Biology	Rescue of the ABCD1 Gene in ccALD Patient iPSC	Jakub Tolar	University of Minnesota
Elizabeth Loh	2020	KSAS	Public Health Studies	ENGAGE Study	Jonathan Konel	SoM
Anita Louie	2019	KSAS	Behavioral Biology	An Analysis of Nonverbal Vocal Communication in Patients with Intellectual Disabilities	Michelle Crawford	SoM
Jin Lu	2019	KSAS	Molecular & Cellular Biology	Deciphering the DNA element code controlling stochastic gene expression	Robert Johnston	KSAS
Maria Lugo-Fagundo	2018	WSE	Materials Science & Engineering	Engineering a Biocompatible Hydrogel Device for the Current Treatment of Hemorrhages and Aneurysms	Hai-Quan Mao, Luo Gu, Christos Georgiades	WSE, SoM
Skylar Luu	2019	KSAS	Neuroscience	Dissecting the dopaminergic circuitry controlling Drosophila sleep	Mark Wu	SoM
Matthew Ma	2018	WSE	Mechanical Engineering	Robotic Antenna for Wall Following Applications	Noah Cowan	WSE
Sabrina Mackey-Alfonso	2018	KSAS	Neuroscience	The Interactions between ALS Linked RNA Binding Proteins TIA-1 and TDP-3	J Paul Taylor	St. Jude Children's Research Hospital
Madeline Malerich	2018	KSAS	Public Health Studies	Studying the Impact of Food Pantries on Baltimore's Food Environment	Joel Gittelsohn	BSPH
Ami Mange	2018	KSAS	Neuroscience	Effects of Whole-Body Oxygen (16O) Ion Exposure on Social Odor Recognition Memory in Rats	Catherine Davis-Takacs	SoM
Simon Mason	2020	WSE	Materials Science & Engineering	Designing a genetic algorithm to find low energy surface structures	Tim Mueller	WSE
Lakyn Mayo	2018	WSE	Materials Science & Engineering	Blood-Brain Barrier Transport and Efflux in Amyotrophic Lateral Sclerosis (ALS)	Peter Searson, Moriah Katt	WSE
Evelyn McChesney	2020	WSE	Biomedical Engineering	Kubanda Cryotherapy	Nicholas Durr	WSE
Nathaniel McKeever	2019	WSE	Materials Science & Engineering	TiNiCr Alloy development for Additive Manufacturing	Jonah Erlebacher	WSE
Tarek Meah	2020	KSAS	Public Health Studies	Addressing Variation in Genetic Practice Patterns in Pediatric Oncology - a Quality Improvement Project	Joann Bodurtha	SoM
Shivani Mehta	2018	KSAS	Public Health Studies	Assessing the Tuberculosis Knowledge and Attitude of the Pregnant Population in the Low Resource Settings of Pune, India	Rupak Shivakoti	BSPH
Elvin Meng	2020	KSAS	English	Musical Narrative in James Joyce's Ulysses	Douglas Mao	KSAS

Nikhil Menon	2018	WSE	Materials Science & Engineering	Engineering a Biocompatible Hydrogel Device for the Current Treatment of Hemorrhages and Aneurysms	Hai-Quan Mao, Luo Gu, Christos Georgiades	WSE, SoM
Sophie Mirviss	2018	KSAS	International Studies	Saudi Arabian Wahhabi Madrasas and Their Effect on Radicalization in Kosovo	Kate Bruffet	KSAS
Sofia Mitsotaki	2019	KSAS	Public Health Studies	Sanitation as a Social Determinant of Health: Providing better lives by building proper infrastructure	Lisa Folda	KSAS
Srihari Mohan	2019	WSE	Computer Science	Oracle: knowledge discovery engine for the facilitation of complex queries and visualizations using natural language in sports and analytics	Anton Dahbura	WSE
Allison Montoya	2020	KSAS	Molecular & Cellular Biology	Family History: Reflections from the Northeast Market	Joann Bodurtha	SoM
Gabrielle Moss	2018	WSE	Applied Math & Statistics	Percolation Thresholds for Two-Uniform Lattice	John Wierman	WSE
Nicole Muchleison	2020	KSAS	Behavioral Biology	The Role of IL-33 in the Sex Bias of Immune-Mediated, Drug-Induced Hepatitis	Dolores Njoku	SoM
Anisha Nagpal	2020	KSAS	Public Health Studies	Zero TB: Social media strategies to improve perception of tuberculosis and preventive therapy among Tibetan Youth in Dharamsala	Richard Chaisson, Kunchok Dorjee	SoM
Janani Narayan	2019	WSE	Chemical & Biomolecular Engineering	Non-steroidal mucus-penetrating mesalamine nanosuspension for improved local treatment of inflammatory bowel disease	Laura Ensign-Hodges	SoM
Jeyani Nerayan	2019	WSE	Chemical & Biomolecular Engineering	Characterization of the Mechanical Integrity of DNA Origami Structures by Altering the Presence of Nicks and Holliday Junctions	Yun Chen	WSE
Marieme Ndiaye	2018	KSAS	Neuroscience	Social conditioned place preference in Autism model mice and in Children	Gul Dolen	SoM
Melody Nguyen	2020	KSAS	Molecular & Cellular Biology	The impact of a transitional volunteer program on Emergency Department patient experience and patient outcomes	Arjun Chanmugam	SoM
Else Nico	2018	KSAS	Neuroscience	Epigenetic Therapies for Diffuse Intrinsic Pontine Glioma (DIPG): The Effect of GSKJ4 in Combination with Radiation Treatment for DIPG	Rintaro Hashizume	Northwestern University
Jane Ogagan	2018	KSAS	Public Health Studies	Benefits of Utilizing Green Spaces in Baltimore	Janet Felsten	Open Space Institute
Shih Hao "Ben" Ou	2018	WSE	Chemical & Biomolecular Engineering	Self-Assembling Immunofibers for High Affinity Binding of Immunoglobulin G	Honggang Cui	WSE
Olutosin Owoyemi	2018	KSAS	Molecular & Cell Biology	Androgen Treatment in Prostate Cancer Cells	Sushant Kachhap	SoM
Jilliann Pak	2018	KSAS	Sociology	Anti-corruption Mobilization in South Korea's Candlelight Protests	Beverly Silver	KSAS
Anil Palepu	2020	WSE	Biomedical Engineering	Development of an Interictal Spike Detector	Sridevi Sarma	WSE



Aisyarya "Ash" Panakam	2018	KSAS	Public Health Studies	Health Leads- Children's Medical Practice	Lisa Folda	KSAS
Angela Park	2018	WSE	Biomedical Engineering	Examining the role of air quality on intestinal microbiota and its associated impact on Crohn's disease and ulcerative colitis	Susan Hutfless	SoM
Lauren Parker	2020	KSAS	Molecular & Cellular Biology	Inhibition of Retinoic Acid Metabolism to Prevent Cardiomyocyte Hypertrophy	D. Brian Foster	SoM
Aneesh Patankar	2018	WSE	Chemical & Biomolecular Engineering	The effects of astrocytic Connexin-43 on motor neuron toxicity in Amyotrophic Lateral Sclerosis	Nicholas Maragakis	SoM
Jhilika Patel	2018	KSAS	Public Health Studies	The impact of a transitional volunteer program on Emergency Department patient experience and patient outcomes	Arjun Chanmugam	SoM
Kisha Patel	2020	WSE	Biomedical Engineering	A Biodegradable Hydrogel Multi-drug Delivery System for the Post-operative Ocular Management	Jordan Green	SoM
Pavan Patel	2020	KSAS	Molecular & Cellular Biology	The role of GAG3 in A53T a-synuclein transgenic mouse model	Ted Dawson	SoM
Ruchit Patel	2020	KSAS	Neuroscience	Sustainability of an Early Mobilization Program for Critically Ill Children: A Qualitative Analysis of PICU Up!	Sapna Kudchadkar	SoM
Andrew Patera	2018	KSAS	Chemistry	Homogenous Bimetallic Nanoparticle Alloys Through Metal Halide System	Thomas Kempa	KSAS
Sara Pau	2019	KSAS	Public Health Studies	The Impact of Support Groups on Latino Diabetics' Lifestyle in New Brunswick	Leslie Malachi	Robert Wood Johnson University Hospital
Luyi Peng	2018	KSAS	Public Health Studies	The impact of a transitional volunteer program on Emergency Department patient experience and patient outcomes	Arjun Chanmugam	SoM
Carley Petrone	2018	KSAS	Environmental Science	Sustainable Behavior Change in Olin Hall: Utilization of Community-Based Social Marketing to Target Food Waste, Environmental Wellness and Green Events	Alexios Monopolis	KSAS
Duy Phan	2018	KSAS	Neuroscience	Music and the brain: research journey of a musician-scientist	Susan Weiss	PI
Roshan Plamthottam	2018	WSE	Materials Science & Engineering	Continuous Preventative and Rehabilitative Knee Flexion Monitoring Using Textile Integrated Strain Sensors	Orla Wilson, Stephen Farias	WSE
Teja Polisetty	2018	WSE	Biomedical Engineering	Maximizing World Bank's Ease of Doing a Business: A Collection of Best Practices	Steve Hanke	KSAS
Christopher Pope	2018	KSAS	Neuroscience	Hospital Quality Improvement: cEEG Monitoring of Patients in the NCCU	Eva Ritzl	SoM

Bibhav Poudel	2020	WSE	Biomedical Engineering	A CD40 agonist and PD-1 antagonist antibody reprogram the microenvironment of non-immunogenic tumors to allow T cell mediated anticancer activity	Hayley Ma, Elizabeth Jaffee	SoM
Sharmini "Christine" Premananthan	2018	KSAS	Neuroscience	Development of an Interictal Spike Detector	Sridevi Sarma	WSE
Emily Presseller	2018	KSAS	Psychology	Pain and PTSD Severity are Reciprocally Related in Burn Survivors at 6 months Post-Discharge	James Fauerbach	SoM
Gopika Punchhi	2019	KSAS	Public Health Studies	Zero TB: Social media strategies to improve perception of tuberculosis and preventive therapy among Tibetan Youth in Dharamsala	Richard Chaisson, Kunchok Dorjee	SoM
Natalie Qin	2018	KSAS	Behavioral Biology	Neurobehavioral responses to food and non-food cues in children and adolescents	Susan Carnell	SoM
Catherine Quiroz	2017	WSE	Environmental Science	LEEDing Olin Hall into the Future	Alexios Monopolis	KSAS
Ben Ramsay	2018	WSE	Biomedical Engineering	Clustered Iterative Sub-Atlas Registration for Improved Deformable Registration using Statistical Shape Models	Jeff Siewerdsen	SoM
Shivam Rastogi	2020	WSE	Biomedical Engineering	Kubanda Cryotherapy	Nicholas Durr	WSE
Rahul Reddy	2019	KSAS	Molecular & Cellular Biology	Small RNA-mediated Regulation of Oxidative Stress in Haloarchaea	Jocelyne DiRuggiero	KSAS
Kristi Rhead	2018	KSAS	International Studies	The Art of Living Together: Establishing Tolerance through Space and Practice in Marseille, France	Sarah Parkinson, Sara Miglietti, Jaques Neefs	KSAS
Cristina Ricco	2019	KSAS	Neuroscience	Biliverdin Reductase: A non-enzymatic role in reduction-oxidation homeostasis	Solomon Snyder	SoM
Luis Rodriguez	2018	WSE	Chemical & Biomolecular Engineering	Free-Flow Isotachophoresis Device to Separate Nucleic Acids and Proteins Bodily Fluids	Zachary Gagnon	WSE
Indigo Rose	2018	KSAS	Neuroscience	Isolation and Characterization of Extracellular Vesicles for Neuroimmunological Research	Shinichi Kano	SoM
Jessica Rosen	2018	KSAS	Public Health Studies	Successful Long-Term Weight Management Achieved Through Diet, Exercise, and Behavior Modification	Larry Cheskin	SoM
Tyler Ross	2019	KSAS	Public Health Studies	Creating and Antimicrobial Stewardship Program in Order to Reduce Inappropriate Antimicrobial Prescribing in a Veterans Affairs Community Living Center	Stephanie Ozalas	Veterans Affairs MD Healthcare System
Eric Rothchild	2019	WSE	Materials Science & Engineering	Correlating shear modulus with vibrational properties in cubic metals using the Debye model	Evan Ma	WSE
Andre Ruas	2018	WSE	Mechanical Engineering	Robotic Antenna for Wall Following Applications	Noah Cowan	WSE
Alexa Rubens	2019	KSAS	Public Health Studies	The Role of the World Trade Center Health Registry in the Aftermath of 9/11	Katherine Henry	KSAS

Sofia Ryan	2019	KSAS	Public Health Studies	Determined, Resilient, Empowered, and AIDS-Free: Observing the Impact of the DREAMS Project on Targeted HIV Prevention Strategies for Adolescent Girls and Young Women	Zandile Mthembu	
Nicholas Saia	2017	PI	Composition	Mountain Music: Interpretations and Adaptations	Hollis Robbins	PI
Michelle Santangelo	2018	KSAS	Neuroscience	Emerging Toward a Biological Framework for Understanding the Neocortical Connectome	William Gray Roncal	APL
Omar Saul	2019	WSE	Materials Science & Engineering	TiNiCr Alloy development for Additive Manufacturing	Jonah Erlebacher	WSE
David Saveliev	2020	KSAS	International Studies	Bologna: Culture and Populism	Sydney Morgan	KSAS
David Saveliev	2020	KSAS	International Studies	SAIS Summer in Bologna	Sydney Morgan	KSAS
Daniel Schwartzbaum	2017	KSAS	Molecular & Cellular Biology	Family History: Reflections from the Northeast Market	Joann Bodurtha	SoM
Shuchi Sehgal	2020	KSAS	Public Health Studies	Health Leads and Baltimore	Lisa Folda	KSAS
Jayhyun "Jenny" Seo	2019	KSAS	Public Health Studies	Surgeons' Views on Shared Decision Making	Zackary Berger	SoM
Randal "Alex" Serafini	2016	KSAS	Neuroscience	Changes in Peripheral Bicarbonate Metabolon Expression after Spared Nerve Injury in Mice	Michael Caterina	SoM
Kvon Shakil	2018	KSAS	Public Health Studies	How Puerto Rican Hospitals will evolve as Doctors leave	Lisa Folda	KSAS
Abigail Shegelman	2019	KSAS	Public Health Studies	The Psychiatric Effects of a Ketogenic Diet on Patients with Chronic Epilepsy	Mackenzie Cervenka	SoM
Grant Shewmaker	2018	KSAS	Behavioral Biology	The Role of Tail and Wing Haris on Sensorimotor Integration in Aerial Foraging Bats	Cynthia Moss	KSAS
Linyuan "Carol" Shi	2019	KSAS	Neuroscience	Effects of D2R-antagonizing Antipsychotic Drugs on GSK3-beta Phosphorylation in WT and ArcKO Mice Models	Paul Worley	SoM
Fion Shiau	2018	KSAS	Molecular & Cellular Biology	Nfi factors as Potential Regulators of Muller Glia Specification in the Developing Retina	Seth Blackshaw	SoM
Jisu Shin	2018	KSAS	Molecular & Cellular Biology	Spheroid Motility, Invasion, and Poliferation of the Breast Cancer Metastatic Cells Exposed to Hypoxia	Daniele Gilkes	SoM
John Shin	2018	KSAS	Neuroscience	Does testosterone maintain dendritic spine density in the brains of male mice?	David Linden	SoM
Kam Siddiq	2019	WSE	Biomedical Engineering	ForagerOne		
Marcela Sierra-Arce	2018	KSAS	Neuroscience	Prevalence of sleep disorders in Parkinson's disease patients	Rachel Salas	SoM
Samuel Sklarin	2020	KSAS	International Studies	Bologna Summer Program Experience	Sydney Morgan	KSAS
Samantha Slack	2021	KSAS	Anthropology	Formation of Deviant Subcultures in Japan		

Evan Smith	2018	WSE	Materials Science & Engineering	Engineering a Biocompatible Hydrogel Device for the Current Treatment of Hemorrhages and Aneurysms	Hai-Quan Mao, Luo Gu, Christos Georgiades	WSE, SoM
Nate Smith	2019	WSE	Materials Science & Engineering	Designing a genetic algorithm to find low energy surface structures	Tim Mueller	WSE
Akin Sigunro	2018	SOM	Molecular & Cellular Biology	Radiation Therapy Paired with Extracellular Adenosine Signal Blockade as a New Treatment for Cancer	Christian Kaiser, Jonathan Powell	KSAS, SoM
Jingwei "Jerry" Song	2020	KSAS	Neuroscience	The Role of Substantia Nigra and Ventral Tegmental Area Dopamine Neurons in Conditioned Taste Aversion	Satoshi Ikemoto	NIH-NIDA
Natalia Sonsin-Diaz	2018	KSAS	Neuroscience	Cognition in Congestive Heart Failure Patients	Rebecca Gottesman	SoM
Connor Steele-McCutchen	2018	KSAS	Public Health Studies	The Role of Social Networks in Influencing the Engagement of Women Who Use Drugs along the HIV Care Continuum in Tanzania: A formative Research Study	Haneefa Saleem	BSPH
Benjamin Stern	2018	KSAS	Environmental Science	Thinking Outside the Box: Capitalizing on Olin's Outdoor Spaces	Alexios Monopolis	KSAS
Jennifer Su	2018	KSAS	Neuroscience	Memory Sensitivity to Changes in Object Identity and Position in Environments	Arnold Bakker	SoM
Sherry Sun	2020	KSAS	International Studies	Collective memory and memorial sites in Germany	Hanno Balz	KSAS
Tony Sun	2018	WSE	Biomedical Engineering	Comparing the Plasticity of Deep Neural Networks with Mouse Brain Plasticity	Richard Hukanir	SoM
Prakul Suresh	2020	KSAS	Neuroscience	Role of NPTX2 in a Mouse Model of Alzheimer's Disease	Alena Savonenko	SoM
Lidya Tadesse	2020	KSAS	Public Health Studies	Targeted Media Campaigns: Tobacco Advertising and the Youth Population	Meghan Bridgid Moran	BSPH
Matthew Tan	2018	WSE	Chemical & Biomolecular Engineering	Soft Coatings in Elastohydrodynamic Bouncing: The Role of Elasticity and Thickness	Joelle Frechette	WSE
Monica Taneja	2018	KSAS	Public Health Studies	Lifestyle, ethnicity, and inflammation prevalence among breast cancer survivors and women without cancer: a comparison using NHANES	Avonne Connor	BSPH
Diego Tanton	2021	KSAS	Molecular & Cellular Biology	Small RNA-mediated Regulation of Oxidative Stress in Haloarchaea	Joclyne DiRuggiero	KSAS
Emily Tatum	2019	KSAS	International Studies	Activism in Bologna	Kate Bruffet	KSAS
Emily Tatum	2019	KSAS	International Studies	Bologna Summer Program Experience	Kate Bruffet	KSAS
Wen Wen Teh'	2018	KSAS	Neuroscience	Modulation of Resting Motor Cortical Excitability by Transcranial Direct Current Stimulation Influences the Subjective Valuation of Physical Effort	Vikram Chib	SoM

Serena Thomas	2018	WSE	Biomedical Engineering	Kubanda Cryotherapy	Nicholas Durr	WSE
Charles Thornton	2018	WSE	Electrical Engineering	Identify Defects in Colloidal Quantum Dot Solar Cells by Photoluminescence Scanning Spectroscopy	Susanna Thon	WSE
Colin Thrasher	2020	KSAS	International Studies	Collective Memory and memorial sites in Bremen and Berlin, Germany	Hanno Balz	KSAS
Robert Ticzon	2019	KSAS	International Studies	Institutionalized Censorship in Modern China	Kate Bruffet	KSAS
Hieu "Henry" Tran	2018	WSE	Chemical & Biomolecular Engineering	Effect of Oil-polymer Interaction on Adhesion Characteristics of Polymers	Joelle Frechette	WSE
Linh Tran	2019	WSE	Biomedical Engineering	Chemotherapy-induced GSTO1 Interacts with Ryanodine Receptor RYR1 to Trigger Ca2+-dependent Breast Cancer Stem Cell Enrichment	Gregg Semenza, Haiguan Lu	SoM
Michael Trisch	2020	KSAS	Archaeology	Social Distinctions in Plantation Economies: Comparative Analysis of Faunal Remains from Contees Wharf Slave Site and Java Ruin Plantation Mansion	Betsy Bryan, James Gibb	KSAS, Smithsonian Environmental Research Center
Michael Trisch	2020	KSAS	Archaeology	Material Culture Investigation in the Precinct of the Temple of Mut: Analysis of the Contexts of Painted Mud Brick and the Possible Connection to Domestic Worship during the Eighteenth Dynasty	Betsy Bryan	KSAS
Garrett Ung	2019	WSE	Mechanical Engineering	Optimization of Integrated Concentrator Lenses for Thin Film Solar Cells	Susanna Thon	WSE
Jack Valenti	2018	KSAS	Cognitive Science	Vision science and spatial perception	Chaz Firestone	KSAS
Daphna Varadi	2018	KSAS	Public Health Studies	Promoting Safe Sleep Practices for Infants in Baltimore City	Andrea Gielen	BSPH
Bijan Varjavand	2019	WSE	Materials Science & Engineering	Engineering a Biocompatible Hydrogel Device for the Current Treatment of Hemorrhages and Aneurysms	Hai-Quan Mao, Luo Gu, Christos Georgiades	WSE, SoM
Valerie Vilarino	2019	KSAS	Public Health Studies	Health Leads Applied Experience	Lisa Folda	KSAS
Dillan Villavisanis	2018	KSAS	Medicine, Science, & the Humanities	Efferent Innervation of the Cochlea: Noise & Plasticity	Amanda Lauer	SoM
Alfred Vinnett	2019	KSAS	Neuroscience	Comparing Thermal and Visible Light Imaging for the Argus II Retinal Implant in Real-World Situations	Gislin Dagnelie	SoM
Nehali Vishwanath	2019	KSAS	Public Health Studies	The impact of the growing artificial cheapness of food	Adrienne Nolan-Smith	WellBe
Margaret Vitale	2019	KSAS	Public Health Studies	Lead Poisoning in Baltimore City: Health Leads at the Harriet Lane Clinic	Kristin Topel	SoM
Tanner Walker	2019	WSE	Mechanical Engineering	Characterization of the Mechanical Integrity of DNA Origami Structures by Altering the Presence of Nicks and Holliday Junctions	Yun Chen	WSE

Vicky Wang	2020	KSAS	Molecular & Cellular Biology	Developing in vitro systems to investigate CMPK2 as a Putative HIV-1 Restriction Factor	Hayley Ma, Elizabeth Jaffee	SoM
You "Daisy" Wang	2019	KSAS	Public Health Studies	Maternal Plasma Folate Levels, MTHFR Genotypes, and Child Risk of Asthma - A Prospective U.S. Birth Cohort Study	Xiaobin Wang	BSPH
You "Daisy" Wang	2019	KSAS	Public Health Studies	Perceptions of Pain, Illness and Quality of Life in Children with Hypermobility Type Ehlers-Danlos Syndrome: A Parent-Child Dyad Analysis	Joann Bodurtha	SoM
Falyn Wiess	2019	KSAS	Public Health Studies	Public Health Programming for Homewood Undergraduates	Lisa Folda	KSAS
Elanor West	2018	WSE	Applied Math & Statistics	Rendezvous Search On the Edges of Platonic Solids: Random Walks and Optimal Holding Probabilities	John Wierman	WSE
Abby Weyer	2021	WSE	Materials Science & Engineering	Engineering a Biocompatible Hydrogel Device for the Current Treatment of Hemorrhages and Aneurysms	Hai-Quan Mao, Luo Gu, Christos Georgiades	WSE, SoM
Austin Wilson	2018	WSE	Materials Science & Engineering	TiNiCr Alloy development for Additive Manufacturing	Jonah Erlebacher	WSE
Alyssa Wooden	2020	KSAS	Public Health Studies	An Examination of Maternal Stress and Risk Factors on Infant Birth Weight	Kristin Voegtline	SoM
Trevor Wroblewski	2018	KSAS	Public Health Studies	Zero TB: Social media strategies to improve perception of tuberculosis and preventive therapy among Tibetan Youth in Dharamsala	Richard Chaisson, Kunchok Dorjee	SoM
Cynthia Wu	2019	KSAS	Public Health Studies	Global Brigades: A Public Health Approach	Lisa Folda	KSAS
Hanchi "Stacy" Wu	2018	KSAS	Neuroscience	The Role of TDP-43	Philip Wong	SoM
Fanghan "Anna" Yang	2019	KSAS	Public Health Studies	Does the Asthma Weaning Protocol Decrease the Length of Stay?	Katharine Hodock	Hackensack University Medical Center
Zhuonan "Jojo" Yang	2018	KSAS	Neuroscience	AMPA Receptor Subunit Distribution and Function in Interneurons	Ingie Hong, Richard Hudanir	SoM
Dominic Yared	2019	WSE	Mechanical Engineering	Learning Novel Dynamics	Ismail Uyanik	WSE
Golbahar Yazdanifar	2018	KSAS	Biology	Role of Nox 4 on Aortic Aneurysm in Patients with Marfan Syndrome	Harry Dietz	SoM
Sumera Yego	2020	KSAS	International Studies	Bologna: Culture and Populism	Sydney Morgan	KSAS
Sumera Yego	2020	KSAS	International Studies	SAIS Summer in Bologna	Sydney Morgan	KSAS
Alex Yeh	2018	WSE	Materials Science & Engineering	Characterizing electrodeposited HAp coating on 3D stainless steel weaves	Tim Weihs	WSE
Rahul Yerrabelli	2018	WSE	Biomedical Engineering	Improving Hand Rehabilitation Effectiveness Using Infrared Sensor Tracking and Personalized Virtual Therapy	Vikram Chib	SoM

Sera Yoo	2017	KSAS	Anthropology	Morbid Obsessions: Exploring the Ambivalence of Death in Medical Museums and Bodyworlds in the 20th and 21st century United States	Jennifer Kingsley	KSAS
Insun Yoon	2020	KSAS	Public Health Studies	The Role of Culture in Positive Health Outcomes	Nancy Kim	Yale University
Rebecca Yun	2018	KSAS	Neuroscience	Oxytocin Magnocellular and Parvocellular Pathways	Gul Dolen	SoM
Kristina Zambo	2019	KSAS	Molecular & Cellular Biology	Validation and clinical application of Cancer Specific Alternative Splicing Events in primary HPV related Head and Neck Tumor Samples	Daria Gaykalova	SoM
Jesse Zhan	2018	KSAS	Neuroscience	Investigating Mechanisms Underlying Aberrant Light Mediated Cognitive Deficits	Samer Hattar	KSAS
Nancy Zhang	2020	KSAS	Public Health Studies	An Examination of Maternal Stress and Risk Factors on Infant Birth Weight	Kristin Voegtline	SoM
Rebecca Zhang	2018	KSAS	Neuroscience	Molecular signaling in the hippocampus of an animal model of schizophrenia	Michela Gallagher	KSAS

## DREAMS - 2017 Presenters

Presenter	Year	School	Primary Major	Project Title	Mentor/s	Division/ Institution
Chukwuebuka "Ebuka" Achebe	2019	WSE	Biomedical Engineering	Using Heparin-Sulfate to conjugate Growth Factor to Bone Samples, specifically focusing on bone sample batch to batch variability of conjugation capability.	Warren Grayson	SoM
Ana Ainechi	2019	WSE	Biomedical Engineering	GaitAssist	Robert Allen	WSE
Sarfraz Akmal	2018	KSAS	Neuroscience	Ability of KPT-350 to Suppress Toxicity of C9orf72 Repeat Mutation in Drosophila Model of ALS	Thomas Lloyd, Kai Raun	SoM
Akshay Alaghatta	2017	KSAS	Neuroscience	Empirical Validation of Alzheimer's Disease Related Genes Predicted by Novel Bioinformatics Approach	Mark Mattson	SoM
Chase Alston	2017	KSAS	Public Health Studies	Psychological Distress and the Impact on HIV Risk Perception	Danielle German	BSPH
Daniel Alvarez	2017	KSAS	Environmental Science	A Greener Baltimore	Alexios Monopolis	KSAS
Peter Angeli	2017	KSAS	Neuroscience	Octodon degus: A Novel Model of Aging and Alzheimer's Disease	Michela Gallagher	KSAS
Anne Armstrong	2017	KSAS	Behavioral Biology	The effect of psychosocial stress on reward-seeking behavior in Long Evans rats	Patricia Janak	KSAS
Trevor Aron	2017	WSE	Computer Science	Spire: An Intrusion Tolerant SCADA System for the Power Grid	Yair Amir	WSE
Helena Arose	2017	KSAS	Archaeology	The Archaeological Site of Babylon: World Heritage Worthy?	Elizabeth Rodini	KSAS
Jennifer Aufill	2018	KSAS	Public Health Studies	Correlates of Undiagnosed Cognitive Impairment in Primary Care	Jennifer Wolff	BSPH
Vonay Ayyappan	2020	WSE	Biomedical Engineering	A 2-Dimensional Model of Respiration-Induced Visceral Movement: Implications for Radiation Therapy	Eileen Haase	WSE
Laurn Bailey	2020	KSAS	Biophysics	Genetic testing in adult cancer patients receiving palliative care	Joann Bodurtha, Oluwabunmi Emidio	SoM
Max Basescu	2018	WSE	Mechanical Engineering	Nanosatellite Grasping and Reconfiguration Testbed	Marin Kobilarov	WSE
Abhijith Bathini	2018	KSAS	Neuroscience	Determining the Mechanism Underlying Lhx8-Dependent Control of Circadian Phase Preference	Seth Blackshaw	SoM
Matthew Bee	2017	KSAS	Environmental Science	Bee'more: A Venture into the Urban Beekeeping Landscape	Rebecca Kelly	KSAS
Olivia Berci	2017	KSAS	Public Health Studies	The Effect of Acculturation on HPV Vaccination Behavior Among Latina Women	Meghan Bridgid Moran	BSPH
Christianne Marguerite Bharath	2016	KSAS	Environmental Science	Kids Container Café	Alexios Monopolis	KSAS
Shubhayu Bhattacharyay	2020	WSE	Biomedical Engineering	Detecting mouse lick behavior using light and reward conditioning to probe cerebellar motor memory circuits	Paul Mathews	UCLA
Julia Bindman	2017	KSAS	Biology	User-Oriented Design of Prostate Cancer Decision-Support Tool	Scott Zeger	BSPH



Rebecca Black	2017	KSAS	Molecular & Cellular Biology	Co-culture of Endothelial and Smooth Muscle Cells Using Erythrocytotic Patient-Derived Stem Cells to Study Pulmonary Hypertension	Sharon Gerecht	WSE
Samuel Black	2017	KSAS	Molecular & Cellular Biology	Effects of a Disulfide Bond-Inhibiting Mutation in K14 on Keratinocyte Differentiation	Pierre Coulombe	BSPH
Brandon Blank	2016	KSAS	Neuroscience	Chronic Intermittent Exposure to Alcohol Disrupts Sleep Architecture in Wistar Rats	George Koob	NIH-NIAAA
Sarah Braver	2017	KSAS	History of Art	The Missing Artworks: Confiscated Art from Cuba	Elizabeth Rodini	KSAS
Thomas Brazelton	2017	KSAS	Mathematics	Consecutive Elements of Order n in Fields of Prime Order	Joshua Harrington	Cedar Crest College
Kirsten Burke	2017	KSAS	History of Art	Playing with Peter Flötner's Cards	Mitchell Merback	KSAS
Chloe Cao	2018	KSAS	Chemistry	The Oddity of the Oddy Test: The Impact of Polishing Methods on Results	Patricia McGuiggan	WSE
Mia Capobianco	2017	KSAS	History of Art	Senior thesis on trauma, memory, and the work of Vietnamese-American artist Dinh Q Lê	Rebecca Brown	KSAS
Gabriel Casella	2017	KSAS	Neuroscience	Aphasia Only Strokes: do they exist and what factors predict ischemia over mimics.	Elisabeth Marsh	SoM
Keenan Caswell	2017	KSAS	Neuroscience	Sleep disturbance and pain catastrophizing mediate the association between depression and clinical pain	Jennifer Haythornthwaite	SoM
Adrija Chaturvedi	2018	KSAS	Public Health Studies	Effects of maternal exercise on offspring obesogenic phenotype	Kellie Tamashiro	SoM
Julia Chavarry	2018	KSAS	Earth & Planetary Sciences	Optimal Harvest of Fisheries with Disease	Anand Gnanadesikan	KSAS
Richard Chen	2019	WSE	Biomedical Engineering	Identifying Metastases in Sentinel Lymph Nodes with Deep Convolutional Neural Networks	Hunter Jackson	KSAS
Jamie Chen	2020	KSAS	Public Health Studies	Impact of Porn on Adolescents	Aliza Watters	KSAS
Tracy Chen	2018	KSAS	Public Health Studies	Deficiency in Milk Fat Globule-Epidermal Growth Factor 8 (MFG-E8) Accelerates Organ Injury and Mortality in Neonatal Sepsis	Ping Wang, Laura Hansen	KSAS
Lindsay Cheu	2017	KSAS	Neuroscience	Evaluation of a Biomaterial Hydrogel for the Treatment of Duchenne Muscular Dystrophy	Kathryn Wagner	SoM
Eric Chiang	2018	WSE	Biomedical Engineering	Utilizing Photometric Stereo to Extract Surface Profile Correct Optical Properties Acquired from Spatial Frequency Domain Imaging	Nicholas Durr	WSE
Alfred Chin	2019	KSAS	Neuroscience	Inositol pyrophosphate promotes focal adhesion kinase autophosphorylation	Solomon Snyder	SoM
Lucinda Chiu	2017	KSAS	Neuroscience	A Dopaminergic Circuit Critical for Homeostatic Protein Intake in Drosophila	Mark Wu	SoM
Joshua Choe	2019	KSAS	Expository Writing	Determining the Scope of Restorative Justice with Juvenile Offenders	Aliza Watters	KSAS

Alex Choi	2019	KSAS	Biology	Twist 1 induced dissemination	Andrew Ewald	SoM
Sunho "James" Chung	2017	KSAS	Chemistry	Narp mediates antidepressant-like effects of electroconvulsive seizures	Irving Reti	SoM
Garrett Cleary	2017	KSAS	Film & Media Studies	Balancing Social Integration and Ethnic Preservation:A comparison of three Chinese diasporas during the late modern period	Huei-Ying Kuo	KSAS
Giannina Crosby	2017	KSAS	History	Grass Widows in Medieval Egypt	Tamer El-Leithy	KSAS
Damian Cross	2019	WSE	Mechanical Engineering	Perileve: a Novel Management Method for Refractory Ascites	Ashish Nimgaonkar, Steven Marra	SoM, WSE
Yuan "Jason" Cui	2017	KSAS	History	The role of government in the industrialization of Japanese and Chinese silk industry in 19th century	William Rowe	KSAS
John Curtain	2017	KSAS	Behavioral Biology	In Vivo Differentiation of Optogenetic Human Embryonic Stem Cells in Mice and Rats	Vassilis Koliatsos	SoM
James Damewood	2018	KSAS	Chemistry	Anion Photoelectron Spectroscopy of Electrosprayed Species	Kit Bowen	KSAS
Brendan Dang	2017	WSE	Chemical & Biomolecular Engineering	The role of Megf11 in OPC tiling, differentiation and engulfment	Dwight Bergles	SoM
Aiden Danoff	2018	WSE	Materials Science & Engineering	Characterization of a lipid uptake mutation within larval zebrafish	Steve Farber	KSAS
Himanshu Dashora	2018	WSE	Biomedical Engineering	An Ink Injection System for Localization of Axillary Lymph Nodes in the Treatment of Invasive Breast Cancer	Ryan Woods, Nicholas Durr	SoM, WSE
Jenina David	2017	KSAS	Public Health Studies	Effectiveness of Public Health’s Response to Dengue in the Philippines	Randall Packard	SoM
Justin Decker	2018	KSAS	Environmental Science	All Paws in Gardening: Addressing Student Apathy through Emotional Appeals	Alexios Monopolis	KSAS
Louna Dekker-Vargas	2017	PI	Flute	Behind the Curtain: New Music on Women	David Smooke	PI
Sophia Doerr	2017	WSE	Biomedical Engineering	Cerviscreen: For Earlier Prediction of Preterm Labor	Robert Allen	WSE
Amanda Donoghue	2019	KSAS	Expository Writing	The Harms of Sexual Scripting: People, Culture, and the Brain	Aliza Watters	KSAS
Aviana Duca	2017	KSAS	Molecular & Cellular Biology	The effects of G2 phase length on asymmetric Germline Stem Cell Division	Rajesh Rajan	SoM
Nicholas Duncan	2017	WSE	Electrical Engineering	Synthesis of Fully Flexible Photovoltaic Devices Using Quantum Dots	Susanna Thon	WSE
Madison Dutson	2018	KSAS	Public Health Studies	Global Brigades and the Effort to Improve Access toPharmaceutical Medications in Rural Honduras	Lisa Folda	KSAS
Annie Elander	2017	KSAS	Psychology	The Influence of Cortisol in Cognitive Health and Alzheimer's Disease	Arnold Bakker	SoM
Nicolas Eng	2018	WSE	Biomedical Engineering	Making Sense of Intergenic Variants Using Machine Learning	Michael Beer	SoM
Joon Eoh	2017	WSE	Chemical & Biomolecular Engineering	Enhanced elastin synthesis and maturation in human vascular smooth muscle tissue derived from induced-pluripotent stem cells	Sharon Gerecht	WSE

Isabel Evans	2017	KSAS	Public Health Studies	The Influence of "Guangchang Wu" on the Lives of Older Women in China	Tobie Meyer-Fong	KSAS
Ashley Ezema	2017	KSAS	Public Health Studies	Examining Obesity Prevalence in Black African Immigrants and African-Americans in the US	Roland Thorpe	BSPH
Alex Farid	2018	WSE	Mechanical Engineering	Haptic Feedback Gripper for Aerial Grasping	Marin Kobilarov	WSE
Hannah Farkas	2017	KSAS	Environmental Science	Goddard Waste Management	Alexios Monopolis	KSAS
Michaelangelo Fichera	2017	WSE	Materials Science & Engineering	Creating a Rapid and Low Cost Sensor for a MRSA Protein Using Polymer Thin Films, Antibodies, and Gold Nanoparticles	Howard Katz	WSE
Tess Fields	2017	KSAS	Environmental Science	A Greener Baltimore	Alexios Monopolis	KSAS
Jennifer Flournoy	2019	WSE	Mechanical Engineering	Developing 3D Molding and 3D Printing Techniques to Study the Effect of Geometry on the Protein Expression in Micro-Tissues	Yun Chen	WSE
William Franceschi	2018	WSE	Biomedical Engineering	Investigating the Pro-Arrhythmic Interaction Between Fibrosis Burden and Ablation Lesions in Patients with Persistent Atrial Fibrillation	Natalia Trayanova	WSE
Nicholas Frisco	2017	KSAS	Biology	A subset of polymorphic Alu elements may confer disease risk by altering isoform usage	Kathleen Burns	SoM
Lalita Ganti	2017	KSAS	Public Health Studies	The Effectiveness of Ayurvedic Type II Diabetes Treatment in Hyderabad, New Delhi, and Kochi, India	Christov Roberson	KSAS
Huidong Gao	2018	WSE	Mechanical Engineering	Cockroach Self-righting Process in Complex Terrains	Chen Li	WSE
Rebecca Glowinski	2017	WSE	Biomedical Engineering	Neuropathology Induced by Sindbis Virus during Nonfatal Alphavirus Encephalomyelitis	Diane Griffin	BSPH
Huizi "Holly" Guo	2019	WSE	Biomedical Engineering	The stem cell factor LIN28B regulates diffuse intrinsic pontine glioma cell proliferation and apoptosis	Eric H. Raabe	SoM
Kyu Han Sang	2018	WSE	Chemical & Biomolecular Engineering	Effects of the Tumor Cell Microenvironment on Generating Aneuploidy	Denis Wirtz	WSE
Girija Hariprasad	2017	KSAS	Neuroscience	Prediction Error as a Driving Force of Reward-Expectancy Learning in Primary Visual Cortex	Marshall Shuler	SoM
Casey Haughin	2019	KSAS	Archaeology	The Wreck of the RMS Titanic: Pop Culture and Capitalism's Effect on Cultural Heritage Management	Elizabeth Rodini	KSAS
Connie He	2020	WSE	Chemical & Biomolecular Engineering	The Novel Synthesis of Alloy Nanoparticles for the Water Gas-Shift Reaction	Chao Wang	WSE
Stefanie Hernandez	2018	KSAS	Public Health Studies	Applied Experience at Madera County Public Health Department	Laura Foster	KSAS
Elisabetta Hobbins	2017	KSAS	Public Health Studies	Bridging the Postpartum Gap: Mommy and Me Transitional Care	Wendy Bennett and Sarah Polk	SoM
Yu-Chen "Herriet" Hsieh	2018	KSAS	Neuroscience	In vivo dynamics of cortical oligodendrocyte loss and replacement	Dwight Bergles	SoM

Han "Debra" Huang	2016	WSE	Biomedical Engineering	Exploring Possible Improvements of Deep Brain Stimulation by Computational Model Simulation	Sridevi Sarma	WSE
Jiawei Huang	2017	WSE	Computer Science	Sparse Causal Error Analysis	Jason Eisner	WSE
Ruthe Huang	2017	KSAS	Public Health Studies	The Association of Hot vs. Cool Inhibitory Control to Children's Emotional Regulation to Disappointment	Kristin Voegtline	SoM
Alizay Jalisi	2018	KSAS	Modern Languages & Literatures	Testimonios, A Mental Health Support Group for Latino Immigrants	Kathleen Page	SoM
Amanda Jan	2017	KSAS	Neuroscience	Defining the role of neurotrophins in the developing hippocampus in relation to activity and circuit activation.	Daniel Paredes	SoM
Venkatasai Jasty	2017	WSE	Chemical & Biomolecular Engineering	Engineering essential amino acid expression system into HEK cells	Michael Betenbaugh	WSE
Jane Jeffery	2017	KSAS	Public Health Studies	Using MySleep101's Educational App to Assess and Improve Young Adult Knowledge and Attitudes Toward Sleep	Rachel Salas and Charlene Gamaldo	SoM
Pankhuri Jha	2017	KSAS	Neuroscience	Characterization of Mss51	Kathryn Wagner	SoM
Darin Johnson	2017	KSAS	Medicine, Science & the Humanities	Neurogenesis and medial temporal lobe epilepsy	Kimberly Christian	SoM
Karl Johnson	2018	KSAS	Economics	The role of platelets in inducing formation of regulatory T cells	Kelly Pate	SoM
Dan Ju	2017	KSAS	Behavioral Biology	Noseleaf dynamics and sensorimotor feedback control in bat echolocation	Cynthia F. Moss	KSAS
Julia Ju	2016	WSE	Chemical & Biomolecular Engineering	The Role of Hypoxia Regulated RhoB in Breast Cancer Progression	Daniele Gilkes	SoM
Felicia Juarez	2017	KSAS	Neuroscience	Investigating the role of Lhx2 in the development of the ciliary body	Seth Blackhaw	SoM
Eugene Kang	2018	WSE	Mechanical Engineering	Electrospinning of Piezoelectric PVDF Nano/Micro Fibers	Sung Hoon Kang	WSE
In Guk "Josh" Kang	2018	KSAS	Neuroscience	Aspects of Family History in Adult Cancer Patients in Palliative Care	Joann Bodurtha	SoM
Maura Kanter	2017	KSAS	History	How Changes in Feudal Inheritance Patterns and the Evolution of the English Legal System Reduced the Political Agency of Aristocratic Women in Medieval England.	Gabrielle Spiegel	KSAS
Anjani Kapadia	2017	KSAS	Public Health Studies	Socioeconomic Integration as a Tool to Improve Student Outcomes	Aliza Watters	KSAS
Patrick Keating	2017	KSAS	Biophysics	Engineering Protein pH Switches Using Ionizable Groups with Anomalous pKa Values	Bertrand Garcia-Moreno	KSAS
James Keiler	2017	KSAS	Neuroscience	Alpha-Synuclein Transmission Pathology Mediated by LRRK2	Ted Dawson	SoM
Mitchell Keller	2017	WSE	Chemical & Biomolecular Engineering	Ammonium and Phosphorous Sequestration via ZSM-5 Zeolites	Chao Wang	WSE
Susanna Kellogg	2017	WSE	Mechanical Engineering	Locking Redesign Proposal for WRVU16 Upper Limb Prosthesis	Nathan Scott	WSE

Michael Kelly	2016	KSAS	Physics	Investigating the Active Galactic Nucleus Unification Model with the MaNGA Survey	Nadia Zakamska	KSAS
Alyssa Khan	2017	KSAS	Molecular & Cellular Biology	Training Task to Improve Unhealthy Eating Behaviors	Jessica Salwen	SoM
Shipra Khatri	2019	WSE	Biomedical Engineering	An Analysis of Physio-Resistive Sensors	Nitish Thakor	SoM
Michelle Kihara	2017	KSAS	Public Health Studies	The Role of Mass Media Public Health Campaigns in HIV Prevention in Kenya and Tanzania	Peter Winch	BSPH
Daniel Kim	2017	KSAS	Molecular & Cellular Biology	Spatiotemporal control of cellular migration determines epithelial ductal bifurcation	Andrew Ewald	SoM
Doo Hee "Jay" Kim	2018	KSAS	Public Health Studies	Pesticides effects on dopaminergic neurons	Lena Smirnova	BSPH
Hanbiehn Kim	2018	WSE	Biomedical Engineering	Undergraduate Research in the Heritage Science for Conservation Laboratory	Patricia McGuiggan, Molly McGath, Andrea Hall	WSE
Jeongjae Kim	2017	KSAS	Environmental Science	The Food System Lab – Connecting Food and Knowledge	Alexios Monopolis, Anand Gnanadesikan	KSAS
Ji Woong Kim	2019	WSE	Mechanical Engineering	Developing Force-Driven Tissue Organization Model and Cell StretchingTechniques as a platform for Measuring Cellular forces	Yun Chen	WSE
Nicole Kim	2017	WSE	Electrical Engineering	Aluminum Nanoparticle Simulations and Synthesis	Susanna Thon	WSE
SangMin Kim	2017	KSAS	Public Health Studies	Effects of diet quality on risk of infectious diseases among preschool-aged children living in rural Guatemala.	Jennifer Schrack/ Kristen Hurley	BSPH
Youngeun Kim	2016	WSE	Chemical & Biomolecular Engineering	Optimal Strategies for Convection Enhanced Delivery (CED) of DNA Brain-Penetrating Nanoparticle (DNA-BPN) for Glioblastoma Treatment	Justin Hanes	SoM
Christina Kiriakos	2017	KSAS	History	Hagia Sophia: Identity and Power in Contested Religious Spaces	Elizabeth Rodini	KSAS
Can Kocabalkanli	2018	WSE	Mechanical Engineering	NAO Robot Perception	Gregory Chirikjian	WSE
Kit Shaun Tommy Koh	2017	KSAS	Political Science	Passengers: The effect of ASEAN on local perceptions toward regional labor migration	Erin Chung	KSAS
Gergory Konar	2017	KSAS	Molecular & Cellular Biology	The role of alphaB-crystallin on signaling, apoptosis, and autophagy in ocular melanoma	Debasish Sinha	SoM
Michael Koo	2018	WSE	Biomedical Engineering	Unfolding the paths of microRNA suppression in Acute Lymphoblastic Leukemia	Linda Resar	SoM
Alex Kossak	2018	KSAS	Chemistry	Symmetry Breaking as a Route to Formation of Anisotropic Nanostructures	Thomas Kempa	KSAS
Sanjay Kottapalli	2019	WSE	Chemical & Biomolecular Engineering	Thymulin-Based Gene Therapy for COPD Using Biodegradable Mucus-Penetrating Nanoparticles	Jung Soo Suk	SoM
Linda Krasniewski	2019	KSAS	Molecular & Cellular Biology	Natural history of S. aureus colonization and infection in military trainees	Gene Millar	BSPH

Erez Krinsky	2017	WSE	Mechanical Engineering	A subset of polymorphic Alu elements may confer disease risk by altering isoform usage	Kathleen H Burns	SoM
Thomas Labarca	2018	WSE	Applied Math & Statistics	Engineering protein pH switches using ionizable groups with anomalous pKa values	Bertrand Garcia-Moreno	KSAS
Jeff Lai	2018	WSE	Electrical Engineering	Voice Activity Detection of Noisy Speech Utterance with LSTM	Najim Dehak	WSE
Sharon Lam	2018	KSAS	Neuroscience	Drug screening for $\alpha$ -synuclein receptor	Ted Dawson	SoM
Albert Law	2018	WSE	Biomedical Engineering	CLVIZ - visualizing and analyzing clarity brains	Joshua Vogelstein	WSE
Brennan Lee	2017	WSE	Materials Science & Engineering	Mesoporous black titania aerogels for cocatalyst-free hydrogen generation	Sara Thoi	KSAS
Diana Lee	2017	KSAS	Neuroscience	The reactivation of latent HIV in infected astrocytes by a small RNA inhibitor	Kenneth Witwer	SoM
Jae Young "Jake" Lee	2018	KSAS	Chemistry	Free Radical Polymerization of BN2-vinylnaphthalene	Rebekka Klausen	KSAS
Jennifer Lee	2016	KSAS	Cognitive Science	Evolving Conceptions of Minjok: Race, Nationality, and Identity in a Globalizing South Korea	Beverly Silver	KSAS
Jody Lee	2017	KSAS	Behavioral Biology	Investigating the functional development of higher order visual area PSS in ferrets	Kristina Nielsen	KSAS
Shin-Jae Lee	2017	WSE	Materials Science & Engineering	Spray-BX - A Novel Biomaterial Spray for the Prevention of Post-Surgical Osteomyelitis	Hai-Quan Mao	WSE
Taein Lee	2017	WSE	Materials Science & Engineering	Analysis of electrical properties of organic membranes in biosensor applications	Howard E. Katz	WSE
Olivia Leung	2017	KSAS	Molecular & Cellular Biology	Enhanced Therapeutic Vaccine-Induced Antitumor Immunity Through Tumor Draining Lymph Node Targeting	Trina Schroer	KSAS
Anne Li	2019	KSAS	Neuroscience	An investigation of changes in the expression of microRNA 21 and microRNA 34a due to the green tea polyphenol epigallocatechin gallate, and effects of these changes and polyphenol application itself on the growth of human glioblastoma U-87 MG cells	Kenneth Witwer	SoM
Joey Li	2017	KSAS	Molecular & Cellular Biology	IQGAP1 scaffold protein associates with cancer stem cells in pancreatic ductal adenocarcinoma	William Matsui	SoM
Sijia Li	2017	WSE	Materials Science & Engineering	Design novel membrane-active antimicrobial peptides as therapeutic drugs	Kalina Hristova	WSE
Yu "Belle" Liang	2017	KSAS	Neuroscience	Pathological a-synuclein transmission initiated by binding lymphocyte- activation gene 3	Ted Dawson	SoM
Wilhelm Liano	2017	WSE	Chemical & Biomolecular Engineering	Heterogeneous Dephosphorylation of Biomolecules via Ceria Nanocatalysts	Chao Wang	WSE

Samantha Lindgren	2017	KSAS	Archaeology	Messages in Monumental Text: A Comparative Analysis of Monumental Inscriptions from the Iron Age	Kyle McCarter	KSAS
Bo Liu	2017	WSE	Computer Science	Tractable, Feature-Rich Generative Parsing Models via Neural Left-Context Features	Jason Eisner	WSE
Huixin "Hallie" Liu	2017	KSAS	International Studies	Minority Language Policy and the National Question in the People's Republic of China, 1949-Present	William Rowe	KSAS
Julie Liu	2017	KSAS	Molecular & Cellular Biology	Effects of Emerin Variants on Laminopathies	Katherine Wilson	SoM
Sizhe "Jem" Liu	2017	KSAS	Molecular & Cellular Biology	Establishing a spontaneous ovarian cancer model in mouse	TC Wu, Chien-Fu Hung	SoM
Julia Logan	2017	KSAS	Public Health Studies	Integrating Mental Health and Primary Care for Patients with Serious Mental Illness	Gail Daumit	SoM
Charltien Long	2017	KSAS	Neuroscience	Reading and Naming Recovery After Left PCA Stroke	Argye Hillis	SoM
Jasmine Love	2018	KSAS	Neuroscience	Nausea and Place Aversion: Testing Conditioned Avoidance in Humans	Harriet de Wit	SoM
Emily Lubin	2017	KSAS	Neuroscience	Behavioral Relevance of Sensory Stimuli Affects the Firing of Primary Somatosensory Cortex Neurons	Daniel O'Connor	SoM
Alexandra Luna	2018	KSAS	Molecular & Cellular Biology	Endogenous Nurr1 Ligand and Parkinson's Disease	Young-Sam Lee	KSAS
Skylar Luu	2019	KSAS	Neuroscience	Dissecting the dopaminergic circuitry controlling Drosophila sleep	Mark Wu	SoM
Diego Luy	2017	KSAS	Neuroscience	Watch and Wait: No Role for Routine Repeat Cranial CT for Patients with Mild TBI	Deborah Stein	UMD Shock Trauma Center
Brittany Ma	2018	KSAS	Chemistry	Genetic testing in adult cancer patients receiving palliative care	Joann Bodurtha	SoM
Matthew Ma	2018	WSE	Mechanical Engineering	Biologically Inspired Antenna for Tactile Sensing	Noah Cowan	WSE
Spandana Mandalaju	2018	KSAS	Cognitive Science	Surprise Retroactively Enhances Learning in Young Children	Lisa Feigenson	KSAS
Kristen Manto	2017	WSE	Chemical & Biomolecular Engineering	Hydrogel Microcapsule Technology as Novel Tool to Study Tumor Growth	Kostas Konstantopoulos	WSE
Michael Marinier	2017	WSE	Materials Science & Engineering	The SAVE Device: Super-Absorbable Vascular Embolization Device for the Treatment of Aneurysms and Hemorrhages	Hai-Quan Mao	WSE
Leila Mashouf	2017	KSAS	Neuroscience	Simultaneous blockade of interacting CK2 and EGFR pathways by tumor-targeting nanobioconjugates increases therapeutic efficacy against glioblastoma multiforme	Julia Ljubimova	Cedars-Sinai
Sasmira Matta	2017	WSE	Applied Math & Statistics	System Dynamics Models to Help Ugandan Policymakers Overcome Barriers to Vaccine Coverage	David Bishai	BSPH
Denis McInerney	2018	KSAS	Physics	Sensor Curvature Study for the Higgs Boson	Andrei Gritsan	KSAS



Thomas Mee	2017	KSAS	Public Health Studies	Function of Leydig Cells After Phthalate Treatment	Barry Zirkin	BSPH
Hannah Melton	2017	KSAS	Environmental Science	Mapping the Discussion: Food Security at COP22	Keith Peterman, Gregory Foy, Alexios Monopolis	KSAS
Hannah Melton	2017	KSAS	Environmental Science	Optimizing Invasive Species Control in Baltimore: Prioritizing Through a Socio-Ecological Lens	Alexios Monopolis	KSAS
Junghyun "Hyun" Min	2017	KSAS	Physics	Map Classification: What on Earth is This Map?	Giorgia Fortuna	Wolfram Research
Amy Monasterio	2017	KSAS	Neuroscience	Intact Memory Performance and Gene Induction in a Cue Mismatch Task by Aged Rats with Preserved Spatial Memory	Michela Gallagher, Rebecca Haberman	KSAS
Arman Mosenia	2016	WSE	Materials Science & Engineering	Continuous Microfluidic Assembly of Biodegradable Poly(beta-amino ester)/DNA Nanoparticles for Enhanced Gene Delivery	Jordan Green	SoM
Rahul Mukherjee	2017	WSE	Chemical & Biomolecular Engineering	Development of Gold Nanoparticles (AuNP) Conjugated to Murine Anticollagen I+III for Assessment of Fibrosis	Lilach Lerman	Mayo Clinic
Saachi Nangia	2017	KSAS	Public Health Studies	The Cross-Contamination of Polluted Air from Stove Use Among Households in rural Puno, Peru	William Checkley	SoM
Janani Narayan	2018	WSE	Chemical & Biomolecular Engineering	Nanoformulations for treatment of Inflammatory Bowel Disease	Laura Ensign, Sharon Gerecht	SoM, WSE
Zoha Naseer	2017	KSAS	Environmental Science	Public Health Impacts of the GGRA	Alexios Monopolis, Rebecca Kelly, Keeve Nachman	KSAS, BSPH
Ndeye "Marieme" Ndiaye	2018	KSAS	Neuroscience	Novel behavioral assay with improved face validity for modeling social deficits in autism model mice	Gul Dolen	SoM
Kevin Necochea	2018	WSE	Materials Science & Engineering	The SAVE Device: Super Absorbable Vascular Embolization Device	Hai-Quan Mao	WSE
Andrzej Novak	2017	KSAS	Physics	Z' to tT' search in full luminosity 13TeV collision data.	Petar Maksimovic	KSAS
Cindy Nunez	2017	KSAS	Neuroscience	The Role of MAGUK Scaffolding Proteins in the Regulation of Neurotransmitter Receptor Stabilization, Trafficking, and Synaptic Transmission	Richard Huganir	SoM
Richard Oh	2019	WSE	Chemical & Biomolecular Engineering	Propagation of Neuronal Activity Induced by Direct Cortical Stimulation	Pawel Kudela, William S. Anderson	SoM
Kareem Osman	2017	KSAS	Molecular & Cellular Biology	Expression analysis of microRNA biogenesis components in a rat model of cognitive aging	Michela Gallagher	KSAS
Aine O'Sullivan	2017	WSE	Biomedical Engineering	CytoBloom: An Improved Biopsy Device for Bile Duct Cancer Diagnosis	Robert Allen, Clifford Weiss	SoM
Shaina Palmer	2019	WSE	Materials Science & Engineering	Measuring Properties of Adhesives Commonly Employed in the Conservation of Cultural Heritage Using Tack Testing	Patricia McGuiggan	WSE



Tony Pan	2017	WSE	Chemical & Biomolecular Engineering	Formulation Optimization of Glutaminase Inhibitor Loaded Nanoparticles	Qingguo Xu	SoM
Manish Paranjpe	2017	KSAS	Biophysics	Role of the Let-7 MicroRNA in Fragile X Syndrome	Mollie Meffert	SoM
Ashley Park	2017	KSAS	Public Health Studies	How to get more people to volunteer as lay health educators without financial incentives	Panagis Galiatsatos	SoM
Jun Ha "Jason" Park	2018	WSE	Chemical & Biomolecular Engineering	Novel synthesis of alloy nanoparticles for the RWGS reaction	Chao Wang	WSE
Marian Park	2019	KSAS	Molecular & Cellular Biology	Exploring Novel Insights Into Breast Cancer Progression through Sialic Acid Engineering	Kevin Yarema	SoM
Edwina Picon	2016	KSAS	Psychology	Non-Suicidal Self-Injury at Hopkins	Alison Papadakis	KSAS
Bret Pinsker	2017	KSAS	Behavioral Biology	$\gamma\delta$ T Cell Response Protects Against Staphylococcus aureus Skin Reinfection	Carly Dillen	SoM
Adam Polevoy	2019	WSE	Biomedical Engineering	An Analysis of Piezoresistive Sensors	Nitish Thakor	SoM
Teja Polisetty	2018	WSE	Biomedical Engineering	Snapback Test Quantification and 3D Soft-tissue Modeling of the Eyelid	Nicholas Durr	WSE
Michael Pozin	2018	WSE	Mechanical Engineering	Towards Dexterous Continuum Shape Sensing by FBG sensing	Mehran Armand	SoM
Josh Punnoose	2017	WSE	Biomedical Engineering	spektr 3.0-A computational tool for x-ray spectrum modeling and analysis	Jeffrey Siewerdsen	SoM
Andrew Rauch	2017	WSE	Electrical Engineering	Bandpass Photonic Crystal	Susanna Thon	WSE
India Reiss	2017	KSAS	Neuroscience	Natural Variation in Color Perception in Flies	Robert Johnston	KSAS
Naomi Rodgers	2018	KSAS	Earth & Planetary Sciences	LIBSing on a Prayer: A study of climate cyclicity in the Newark Basin	Kevin Lewis	KSAS
Luis Rodriguez	2018	WSE	Chemical & Biomolecular Engineering	Non-Optically Tracking Microfluidic Flows Using Impedance Spectroscopy	Zachary Gagnon	WSE
Olivia Rodriguez	2017	KSAS	History of Art	Walid Raad: Issues, Questions, and Themes in Contemporary Art of the Middle East	Rebecca Brown	KSAS
Ukrit "Genki" Rojanasena	2017	WSE	Materials Science & Engineering	Developing a closed, continuous system for bone marrow aspiration	Orla Wilson, Tim Weihs, Ivan Borrello	WSE, SoM
Corbin Rosset	2017	WSE	Computer Science	Knowledge Base Completion with Embeddings of Graphs, Text, and Paths	Raman Arora	WSE
Denis Routkevich	2021	WSE	Biomedical Engineering	The Role of Endosomal Buffering in Poly(beta Amino Ester) Nanoparticle Mediated Transfection	Jordan Green	SoM
Michael Ruiz	2017	WSE	Materials Science & Engineering	The effect of titanium surface modification on the composition and strength of biomimetically deposited Hap	Tim Weihs	WSE
Rienna Russo	2017	KSAS	Public Health Studies	Change in needle exchange policy and syringe-related risk behavior among injection drug users in Baltimore	Danielle German	BSPH

Brian Ryu	2017	WSE	Chemical & Biomolecular Engineering	Enhanced elastin synthesis and maturation in human vascular smooth muscle tissue derived from induced-pluripotent stem cells	Joelle Frechette	WSE
Daphne Schlesinger	2018	WSE	Biomedical Engineering	Polymer microneedles for enhanced transdermal drug delivery	Jordan Green	SoM
Erica Schwarz	2017	WSE	Biomedical Engineering	Kaleydos: A Telemedicine Solution for Retinopathy of Prematurity	Nicholas Durr	WSE
Erica Schwarz	2017	WSE	Biomedical Engineering	Using Flow Network Theory and the Minimum Cut Algorithm to Predict Ablation Targets	Natalia Trayanova	WSE
Ryan Selig	2017	WSE	Mechanical Engineering	Water-Jet Project	Nathan Scott	WSE
Jayhyun "Jenny" Seo	2019	KSAS	Public Health Studies	Surgeons' Attitudes About Preoperative Medical Evaluations and Uncertainty	Zack Berger	SoM
Daniel Shade	2017	WSE	Chemical & Biomolecular Engineering	Hypoxia-induced DDR2 expression promotes breast cancer metastasis	Daniele Gilkes	SoM
Janie Shade	2019	WSE	Biomedical Engineering	Milk Fat Globule-EGF Factor 8 as a Regulator of Adult Neurogenesis in the Mammalian Dentate Gyrus	Hongjun Song	SoM
Vishwesh Shah	2018	WSE	Chemical & Biomolecular Engineering	Concurrent inhibition of IL-6R, IL-8R, and EGFR infers new strategy to repress tumor growth and metastasis.	Denis Wirtz	WSE
James Shamul	2017	WSE	Biomedical Engineering	PEG-PBAE-PEG Block Copolymer Micelles for Anti-Cancer therapy	Jordan Green	SoM
Thaara Shankar	2019	KSAS	History of Art	Decoding Klimt Through Neuroaesthetics	Christopher Lakey	KSAS
Sonal Sharda	2018	KSAS	Neuroscience	MRI in Infantile Spasms Patients	Chellamani Harini, Sanjay Prabhu	KSAS
Yu Jung Shin	2017	WSE	Biomedical Engineering	Engineered Bovine Tissue for Corneal Reconstruction	Jennifer Elisseeff	SoM
Michelle Shu	2019	WSE	Mechanical Engineering	Cell Volume Analysis on Different Substrate/ Stochastic Modeling on Different Populations Involving Competition and Cooperation	Sean Sun	WSE
Kamran Siddiq	2019	WSE	Biomedical Engineering	Assessment of Highly branched Poly(beta amino-ester)s for Improved Transfection Efficacy	Jordan Green	SoM
Devanshu Singh	2020	WSE	Biomedical Engineering	Modulatory Effect of Autonomic Nervous System Stimulation on Cardiac Function is Maintained When Given in Combination with Commonly Prescribed Heart Failure Drugs	Jeffrey Ardell	UCLA
Prerna Singh	2020	WSE	Biomedical Engineering	Kaleydos Imaging Device: A Telemedicine Solution for Retinopathy of Prematurity	Nicholas Durr	WSE
Jonathan Snedecker	2018	KSAS	Biology	Coordination of DNA Replication in Male Drosophila Germline Stem Cells	Xin Chen	KSAS
Alex Song	2018	KSAS	Public Health Studies	Safety and Efficacy of Ketamine as a Battlefield Analgesic for Acute Burn Pain	Jim Fauerbach	SoM

Jingwei "Jerry" Song	2020	KSAS	Neuroscience	Prolonged Optogenetics Manipulation by Fiber Optics Destroys Neuronal Structures and Decreases Transgene Expression	Yeka Aponte	SoM
Sophia Song	2019	KSAS	Cognitive Science	Action Timing as a Behavioral Platform to Detect Cholinergic Impairments	Barbara Landau	KSAS
Steven Sosa	2017	WSE	Materials Science & Engineering	Corrosion behavior of metal-metal bonds fabricated using reactive foils	Tim Weihs	WSE
Arun Sridharan	2016	KSAS	Chemistry	Tuning the Biradical Behavior of Quinoidal Methano[10]annulene through Steric Effects	JD Tovar	KSAS
Akshay Srivatsan	2017	WSE	Computer Science	Vector Augmentation of PCFGs	Jason Eisner	WSE
Robert Stafford	2017	KSAS	Earth & Planetary Sciences	Reevaluating the Marker Bed of Mount Sharp (Aeolis Mons), Mars	Kevin Lewis	KSAS
Asa Stahl	2017	KSAS	Physics	Probing the Mysteries of LINER Galaxies	Nadia Zakamska	KSAS
Daniel Stambler	2019	KSAS	International Studies	Improving Interest in History in High Schools Across the United States	Annalisa Cieczulin	KSAS
Noah Stanco	2017	KSAS	Chemistry	Forced in Silico Unfolding of Helical Fast Folding Proteins	Rigoberto Hernandez	KSAS
Alec Stepanian	2018	KSAS	Neuroscience	An optogenetics based approach for elucidating how high frequency stimulation at the subthalamic nucleus suppresses excessive self-grooming in autism-like mouse models	Irving Reti	SoM
Hayley Strasburger	2017	KSAS	Neuroscience	Oligodendrocyte Progenitor Cell Transdifferentiation as a Mechanism for Remyelination Failure in Multiple Sclerosis	Peter Calabresi	SoM
Karen Sun	2020	KSAS	Public Health Studies	"Case Race," Beer Pong, and Jell-O Shots: An Evaluation of the Current Minimum Legal Drinking Age of 21	Aliza Watters	KSAS
Michael Sun	2019	KSAS	Biology	Association of soil potassium, pesticide application and other risk factors with spatial disparities of liver cancer in the United States	Karen Beemon	KSAS
Saakshi Suri	2017	KSAS	International Studies	Dispossession & Disappointment: Revisiting the Politics of India's Special Economic Zones	Michael Levien	KSAS
Monica Taneja	2017	KSAS	Public Health Studies	Stem Cell Divisions in Human Psoriasis	Katherine Henry	KSAS
Man Hon Ambrose Tang	2020	PI	Trumpet	The Pulse of Hong Kong	Susan Weiss	PI
Jessamy Taylor	2018	WSE	Mechanical Engineering	Piezoelectric Transducer to Monitor Heart and Lung Sounds	Jim West	WSE
Sameer Thakker	2017	KSAS	Public Health Studies	Examining Metabolite Differences in Active vs. Latent TB Infection	Petros Karakousis	SoM
Jai Thakor	2017	KSAS	Biology	Cancer in a Dish: Characterization of Mouse Intestinal Stem Cell-Derived Organoids	Hariharan Easwaran, Stephen Baylin	SoM
Justin Thomas	2017	KSAS	Molecular & Cellular Biology	Differentiation of Hematovascular Lineages from Naive Human Pluripotent Stem Cells	Elias Zambidis	SoM

Sean Thompson	2017	KSAS	Neuroscience	Tracking Cell Populations in Mouse Models of Alzheimer's Disease	Kerstin Braunstein, Philip Wong	SoM
Sang Tran	2016	KSAS	Biology	Investigating the Roles of DNA Elements in Stochastic Gene Expression	Robert Johnston	KSAS
Tiffany Tran	2017	KSAS	Biology	Regulation of Quiescence in the Stem Cell Niche	Erika Matunis	SoM
Eric Tsai	2017	WSE	Computer Engineering	Bandpass Photonic Crystal	Susanna Thon	WSE
Joby Tsai	2017	KSAS	Molecular & Cellular Biology	Pulmonary Perfusion Changes Following Single-Lung Transplantation	Roberto Salas Fragomeni	SoM
Bilyana Tzolova	2016	KSAS	Mathematics	Adaptive Polynomial Expansion Method for the Numerical Solution of the Landau Equation	Chris Scullard	Lawrence Livermore National Laboratory
Garrett Ung	2019	WSE	Mechanical Engineering	Flexible Integrated Concentrator Lenses for Colloidal Quantum Dot Solar Cells	Susanna Thon	WSE
Tina Vaziri	2017	KSAS	Neuroscience	The Effects of Sepsis on Cerebral Autoregulation	Kathryn Rosenblatt	SoM
Fernando Vicente	2018	WSE	Biomedical Engineering	Biologically-inspired Design of Artificial Antigen Presenting Cell Nanoparticles for Immunotherapy	Jonathan Schneck	SoM
Ariadne Villegas	2017	KSAS	Environmental Science	GrowMore: Building a Urban Garden in Baltimore City	Alexios Monopolis, Leo Horrigan	KSAS, BSPH
Harsh Wadhwa	2018	KSAS	Molecular & Cellular Biology	Effect of Ataxin-2 Intermediate Length Polyglutamine Expansion on Nucleocytoplasmic Transport in C9ORF72-mediated ALS	Thomas Lloyd	SoM
Rose Wall	2016	WSE	Electrical Engineering	Mitigating the Dangers of Submerged Hydraulic Jumps from Low Head Dams	Ciaran Harman	WSE
Annette Wang	2018	KSAS	Molecular & Cellular Biology	Role of PACAP in circadian photoentrainment and masking	Samer Hattar	SoM
Judy Wang	2017	WSE	Biomedical Engineering	Mapping Macaque Brain Images Using Large Deformation Diffeomorphic Metric Mapping	Tilak Ratnanather	WSE
Sabrina Wang	2017	KSAS	Neuroscience	Targeting abnormal metabolism downstream of MYC in atypical teratoid/rhabdoid tumor	Eric Raabe	SoM
Songnan Wang	2017	WSE	Chemical & Biomolecular Engineering	Low Oxygen Tension to Enhance Cardiomyocyte Differentiation and Maturation from Induced Pluripotent Stem Cells	Sharon Gerecht	WSE
Tony Wang	2017	WSE	Biomedical Engineering	Gaussian Mixture Models for Evaluating the Efficacy of Biomaterials for Tissue Regeneration	Jennifer Elisseeff, Suchi Saria	SoM, WSE
Yuxuan Wang	2017	WSE	Chemical & Biomolecular Engineering	Simulations on CO2 reduction	Chao Wang	WSE
Haley Wendt	2017	KSAS	Neuroscience	Small Aneurysms Account for Majority and Increasing Percentage of Aneurysmal Subarachnoid Hemorrhage: a 25-Year Study	Geoffrey Colby	SoM

Max White	2019	KSAS	Biophysics	Probing topological gene regulation at the single-cell level	Jie Xiao	SoM
Ting Yu "Tinnie" Wu	2017	KSAS	Neuroscience	Investigating the Dissociation of Spoken and Written Object Identification in a Individual with Acquired Dysgraphia	Brenda Rapp	KSAS
Amy Xiao	2018	WSE	Biomedical Engineering	Vehicle Design for Nanomedicine-based Treatment of Dry Eye Syndrome	Laura Ensign	SoM
Yuan Jing "Vincent" Yan	2017	WSE	Computer Science	Tractable, Feature-Rich Generative Parsing Models via Neural Left-Context Features	Jason Eisner	WSE
Fanghan "Anna" Yang	2019	KSAS	Public Health Studies	Nemo-like kinase modulates mutant Huntingtin toxicity	Wenzhen Duan	SoM
Yae Eun "Yenny" Yang	2019	KSAS	Biology	Increased Telomerase Recruitment through Ku not Sufficient to Compensate for Loss of Est1	David Zappulla, Evan Hass	SoM
Zhuonan Yang	2018	KSAS	Neuroscience	Functional connections between iPSC-derived cardiomyocytes and primary autonomic neurons	Yasuhiko Jimbo	SoM
I Chae "Rachel" Ye	2016	WSE	Chemical & Biomolecular Engineering	Tuning the Effects of DDIT4 to promote cell death under hypoxia	Daniele Gilkes	SoM
Daniat Yemane	2017	KSAS	Public Health Studies	Sawa Military Training and Women's Health in Eritrea	Peter Winch	BSPH
Danait Yemane	2017	KSAS	Public Health Studies	Patient-Centered Attitudes Among Medical Students in Mali	Peter Winch	BSPH
Yu-Hsin "Yvonne" Yen	2017	KSAS	Neuroscience	Investigating the Role of Neuropilin-2 and Semaphorin-3F in the Rod Photoreceptor Synapse	Alex Kolodkin	SoM
Rahul Yerrabelli	2018	WSE	Biomedical Engineering	Improving Hand Rehabilitation Effectiveness Using Infrared Sensor Tracking and Personalized Virtual Therapy	Vikram Chib	SoM
Thomas Yi	2017	WSE	Biomedical Engineering	An X-Ray Guided Spine Surgery Robot	Jeff Siewerdsen, Ali Uneri	SoM
Brandon Yu	2018	WSE	Chemical & Biomolecular Engineering	The Role of Glycogen in Neuronal Cell Death by Oxygen Glucose Deprivation	Shaida Andrabi	SoM
Chenxiao Zeng	2018	KSAS	Physics	Searching Features in the Primordial Power Spectrum with Planck and SDSS	Marc Kamionkowski	KSAS
Zezhou "Zach" Zhao	2018	KSAS	Molecular & Cellular Biology	miRNA 186-3p in HIV infection and extracellular vesicle shuttling	Kenneth Witwer	SoM
Jessica Zionts	2017	WSE	Environmental Engineering	Trophic Energy Flow in Wytham Woods	Yadvinder Malhi	University of Oxford
Alessandra Zito	2018	KSAS	Chemistry	Molybdenum Sulfide-Loaded Carbon Aerogels for Hydrogen Evolution	Sara Thoi	KSAS

## Undergraduate Research Day - 2016 Presenters

Presenter	Year	School	Primary Major	Project Title	Mentor/s	Division/ Institution
Julia Adams	2016	KSAS	Environmental Science	Nature, Baltimore and a Sense of Place: Examining Lake Roland as a Case Study to Explore the Benefits of Public Greenspace	Alexios Monopolis	KSAS
Gloria Aldana	2016	KSAS	Environmental Science	New Perspectives for a More Sustainable Baltimore	Alexios Monopolis	KSAS
Sari Amiel	2016	KSAS	Environmental Science	Biocharming Baltimore	Alexios Monopolis	KSAS
Helena Arose	2017	KSAS	Archaeology	Protecting the Past: The Athienou Archaeological Project, Community Engagement, and the Preservation of Cultural Heritage	Emily Anderson	KSAS
Michael Ayad	2016	KSAS	Neuroscience	Visualizing neurons of the mouse motor cortex in CUBIC cleared	Rick Hukanir	SoM
Andrew Beamesderfer	2017	WSE	Materials Science & Engineering	Enhanced Osseointegration in Antimicrobial Polymeric Implant	Hai-Quan Mao	WSE
Chinar Berry	2016	KSAS	Neuroscience	Expression of the $\beta$ 2-adrenergic receptor in the pancreas	Rejji Kuruvilla	KSAS
Brett Brodsku	2016	KSAS	Environmental Science	Nature, Baltimore and a Sense of Place: Examining Lake Roland as a Case Study to Explore the Benefits of Public Greenspace	Alexios Monopolis	KSAS
Dannielle Brown	2017	KSAS	Public Health Studies	Yabonga: Making a Difference Through the Eyes of Orphans and Vulnerable Children	Mieka Smart	KSAS
Silin Chen	2016	KSAS	History of Art	Twentieth-Century Travels of Chinese Treasures: Art Exhibitions and Cultural Exchange	Rebecca Brown	KSAS
Jessica Chung	2016	KSAS	Neuroscience	Gender-Related and Age-Related Differences in Implantable Defibrillator Recipients: Results From the Pacemaker and Implantable Defibrillator Leads Survival Study	Todd Cohen	WSE
Rachel Conklin	2016	KSAS	Environmental Science	Camp Singewald: Spatial and Experiential Design	Alexios Monopolis	KSAS
Guillermo Contreras	2017	KSAS	Chemistry	Core Shell DMOF-1 for Applications in Solar Cells	Thomas Kempa	KSAS
Allsion Cox	2016	KSAS	History	Capturing the West: Women Photographers on Indian Reservations, 1880-1912	Ronald Walters	KSAS
Austin Coye	2016	KSAS	Neuroscience	CTGF Expression in Persistent Subplate Neurons as it Relates to Schizophrenia	Solange Brown	SoM
Anna Davis	2016	KSAS	History	Instrument of Empire: Logwood Interest Groups and the Making and Un-Making of British Imperial Policy, 1680-1720	Philip Morgan	KSAS

Emilie Decoppet	2016	KSAS	Neuroscience	Pharmacological Inhibition of BACE 1 Activity Affects Regeneration of Adult Serotonergic Axons in the Central Nervous System	David Linden	SoM
Zoe Demko	2017	KSAS	Public Health Studies	Incentivized Community Screening: A Novel Approach to Tuberculosis Diagnostics in South Africa	Aamir Khan	BSPH
John Durovsk	2016	KSAS	History of Art	Rethinking Gulf Museology: Identity and Museums in Doha and Abu Dhabi	Jennifer Kingsley	KSAS
Adebayo "Bayo" Eisape	2018	WSE	Electrical Engineering	Electret Based Energy Harvester	Jim West	WSE
Naomi Ephraim	2016	WSE	Computer Science	Game Theory in Dynamic and Multicast Networks	Michael Dinitz	WSE
Noah Erwin	2016	KSAS	Environmental Science	New Perspectives for a More Sustainable Baltimore	Alexios Monopolis	KSAS
Elizabeth Fassas	2017	KSAS	Molecular & Cellular Biology	Contemporary Healthcare Realities: Optimistic Expectations of Limited Accessibility	Jacky Jennings	SoM
Gehn Ferguson	2016	WSE	Materials Science & Engineering	Integrated Platform for On-Board Monitoring of Bicycles	Jim Spicer	WSE
Lara Gaffney	2017	KSAS	Public Health Studies	Examining the Effectiveness of Social Work Initiatives on Localized HIV Prevention and HIV Education	Mieka Smart	KSAS
Andrew Han	2016	WSE	Materials Science & Engineering	A Comprehensive Cell Migration Analysis Program and Methodology, with Immediate Applications towards Improving Cell Neuroregenerative Potentiation of Nerve Guidance Conduits	Hai-Quan Mao	WSE
Maria Hazbon	2016	KSAS	Neuroscience	Role of tp52inp2 in the survival of sympathetic neurons	Rejji Kuruvilla	KSAS
Gwendolyn Hoffman	2016	WSE	Materials Science & Engineering	Lab-on-a-chip assay for detection of HRP2, a malaria biomarker in	Peter Searson	WSE
Wakako Horiuchi	2016	KSAS	Neuroscience	Dopaminergic circuitry regulate protein intake in Drosophila	Mark Wu	SoM
Nicole Huang	2016	KSAS	Neuroscience	Resveratrol oppositely regulates ghrelin secretion in vitro and in vivo	Jeffrey Zigman	SoM
Shi "Andy" Huang	2016	KSAS	Neuroscience	MATPLM1, A MATLAB program for scoring of Restless Leg Syndrome	Richard Allen	SoM
Margot Hultz	2016	WSE	Materials Science & Engineering	Quantitative Analysis of Liposome Permeability as a Function of Lipid Composition	Peter Searson	WSE
Joseph Huntley	2016	KSAS	Neuroscience	Neural responses to multiple competing stimuli in the barn owl midbrain	Shreesh Mysore	KSAS
Alizay Jalisi	2018	KSAS	Molecular & Cellular Biology	Testimonies: A Mental Health Support Group	Kathleen Page	SoM



Karl Johnson	2018	KSAS	Economics	Financial Futures for Families - Understanding and Alleviating Financial Instability for Families in a Pediatric Primary Care Clinic	Barry Solomon	SoM
Hayley Kallfelz	2016	KSAS	Environmental Science	New Perspectives for a More Sustainable Baltimore	Alexios Monopolis	KSAS
Joshua Katz	2017	KSAS	Molecular & Cellular Biology	Identification of genes that suppress ER stress sensitivity and aggregation in a yeast model of amyotrophic lateral sclerosis	Beverly Wendland	KSAS
Sunwoo "Sunny" Kim	2016	KSAS	Environmental Science	Camp Singewald: Spatial and Experiential Design	Alexios Monopolis	KSAS
Gergory Konar	2017	KSAS	Molecular & Cellular Biology	AlphaB-crystallin Expression Patterns in Ocular Melanoma Provide Insight into the Heat Shock Response in Tumor Development	Debashish Sinha	SoM
Adrienne Kramer	2017	KSAS	Archaeology	Bioarchaeology of Catoctin Furnace Slaves	Lisa DeLeonardis	KSAS
Kathleen Kranzlin	2016	KSAS	Environmental Science	The Revitalization of Camp Singewald: Sustainable Infrastructure	Alexios Monopolis	KSAS
Evan Krumheuer	2017	WSE	Materials Science & Engineering	Effect of various bonding parameters on the shear strength of steel substrates bonded using novel reactive thermite foils	Tim Weihs	WSE
Lisa Lacampagne	2016	KSAS	Environmental Science	Monitoring the Urban Heat Island Effect in East Baltimore	Alexios Monopolis	KSAS
Yuncong "Giselle" Lai	2017	KSAS	History	Designing a "New China" at War: Health and Behavioral change Campaigns in Chongqing, 1937-1949	William Rowe	KSAS
Jennifer Lee	2016	KSAS	Sociology	Global Outsiders: The ambiguous racial categorization of East Asians in a post-Apartheid South Africa	Beverly Silver	KSAS
Tasein Lee	2017	WSE	Materials Science & Engineering	Surface modification of PSPAA for organic transistor to use in biosensor applications	Howard Katz	WSE
Connie Lin	2017	KSAS	Psychology	Associations among Coping Responses to Peer Victimization and Social Anxiety and Depressive Symptoms in Adolescents	Alison Papadakis	KSAS
Ivory Loh	2018	KSAS	Public Health Studies	B'More Healthy Communities for Kids (BHCK)	Joel Gittelsohn	BSPH
Nicholas Mailloux	2016	KSAS	Environmental Science	Sustainable Inroad Access: Cost Analysis, Design, and Implementation at Camp Singewald, Clear Spring, MD	Alexios Monopolis	KSAS
Ellen Marcus	2016	KSAS	Behavioral Biology	Examining the prevalence of vision problems in an early school age population and the impact of vision treatment on reading performance	Megan Collins	KSAS
Thomas Marge	2018	WSE	Applied Math & Statistics	Baseball Schedule Team	Donniell Fishkind	WSE
Kalina Martinova	2016	WSE	Materials Science & Engineering	Biochemical Functionalization of Electrospun Hydrogel Fibers for Nerve Regeneration Applications	Hai-Quan Mao	WSE



John "Jack" McNulty	2016	KSAS	Neuroscience	Cytotoxic and Anti-Migratory Effects of Notch Inhibitors on Malignant Brain Tumor Cells	Mariano Viapiano	SoM
Sofia Medina-Pardo	2016	KSAS	Public Health Studies	Partners In Health: Creating Sustainable and Modern Health Care Service Delivery in Remote and Impoverished Areas of the World	Aaron White, Milenka Jean-Baptiste	KSAS
Nicole Michelson	2016	KSAS	Neuroscience	miR-486 dependent modulation of FOXO1 in Glioblastoma Multiforme	John Laterra	SoM
Simon "Toby" Mirman	2016	KSAS	Environmental Science	Sustainable Inroad Access: Cost Analysis, Design, and Implementation at Camp Singewald, Clear Spring, MD	Alexios Monopolis	KSAS
Aisa Moreno-Megui	2017	KSAS	Psychology	Associations among Coping Responses to Peer Victimization and Social Anxiety and Depressive Symptoms in Adolescents	Alison Papadakis	KSAS
Arman Mosenia	2016	WSE	Materials Science & Engineering	Analysis and control of plasmid distribution for enhanced gene	Jordan Green	SoM
Emily Nordquist	2016	KSAS	Molecular & Cellular Biology	LRRK2 G2019S Transgenic Mice Display Increased Susceptibility to 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-Mediated	Valina Dawson	SoM
Gabrielle Nyirjesy	2016	WSE	Materials Science & Engineering	PbS Colloidal Quantum Dot Short Wave Infrared Photodetectors with High Gain and Detectivity	Susanna Thon	WSE
Sunyoung "Sunny" Oh	2017	KSAS	Psychology	Associations among Coping Responses to Peer Victimization and Social Anxiety and Depressive Symptoms in Adolescents	Alison Papadakis	KSAS
Hannah Oneda	2016	KSAS	Environmental Science	Nature, Baltimore and a Sense of Place: Examining Lake Roland as a Case Study to Explore the Benefits of Public Greenspace	Alexios Monopolis	KSAS
Jeanette Ortega	2016	WSE	Materials Science & Engineering	The future of Mobile Health: A cyclic Fibrosis Monitor	Peter Searson	WSE
Raphaelle Ortiz	2016	KSAS	Environmental Science	Ecological Wellbeing and Environmental Injustice: An Analysis of the Efficiency of Baltimore City's Current and Future Public Transit System	Alexios Monopolis	KSAS
Tianhao "Michael" Ou	2016	KSAS	Neuroscience	Identification of JHA1 as the B-synuclein neuronal transmission receptor	Ted Dawson	SoM
Nathan Palmquist	2016	WSE	Materials Science & Engineering	Multi-colored quantum dot solar cells through thin film interference	Susanna Thon	WSE
Carlene Partow	2016	KSAS	Neuroscience	The Relationship Between Sleep Hours, Emotional Memory, and Neurophysiological Response	Michael Yassa	SoM
Alexander Phan	2016	KSAS	Molecular & Cellular Biology	Novel Migration Mode of Neuronal Precursors in the Adult Mammalian Dentate Gyrus	Hongjun Song	SoM

Jason Plush	2016	KSAS	Environmental Science	The Revitalization of Camp Singewald: Sustainable Infrastructure	Alexios Monopolis	KSAS
Gary Qian	2018	WSE	Computer Engineering	Silver Nanowire Transparent Electrodes for Colloidal Quantum Dot Solar Cells	Susanna Thon	WSE
Sarah Ragen	2016	KSAS	Environmental Science	Revitalizing Baltimore's Forest Patches	Alexios Monopolis	KSAS
Nava Rastegar	2016	KSAS	Environmental Science	Ecological Wellbeing and Environmental Injustice: An Analysis of the Efficiency of Baltimore City's Current and Future Public Transit System	Alexios Monopolis	KSAS
Jefferson Riera	2017	WSE	Environmental Engineering	Ecological Wellbeing and Environmental Injustice: An Analysis of the Efficiency of Baltimore City's Current and Future Public Transit System	Alexios Monopolis	KSAS
Allyson Roberts	2016	KSAS	Molecular & Cellular Biology	Exploring Biofilm Formation and the Coevolution of Conjugative Plasmids and their Hosts through Experimental Evolution	Joel Schildbach	KSAS
Yaritza Rodriguez	2016	KSAS	Public Health Studies	The Boston Birth Cohort: largest prospective birth cohort of urban, low income mother-child pairs in the United States	Xiaobin Wang	BSPH
Andrew Rosenblum	2017	KSAS	Public Health Studies	The Changing Role of EMS: Community Paramedicine	Mieka Smart	KSAS
Andrew Russo	2016	KSAS	Neuroscience	Topography of Thalamocortical Projections to Layer IV in ROR $\beta$ Knockout Mice	Sam Kwon, Dan O'Connor	SoM, KSAS
Henry Sanchez	2016	WSE	Materials Science & Engineering	Modeling Blood-Brain Barrier Transport In-Vitro Using Hydrogel Microfibers	Peter Searson	WSE
Jonathan Schlecht	2016	KSAS	Environmental Science	Monitoring the Urban Heat Island Effect in East Baltimore	Alexios Monopolis	KSAS
Travis Schmauss	2016	WSE	Materials Science & Engineering	Atmospheric Influence on the Mechanism of Microexplosions	Tim Weihs	WSE
Ji "Mary" Seo	2017	KSAS	History of Art	The Politics of Placement: Spatial Analysis of Ancient Costa Rican Monumental Lithic Spheres	Lisa DeLeonardis	KSAS
James Shamul	2017	WSE	Biomedical Engineering	Doxorubicin-Loaded Amphiphilic Poly( $\beta$ -amino ester)–Poly(ethylene glycol) Block Copolymer Micelles for Cancer Therapy	Jordan Green	SoM
Mengli Shi	2017	WSE	Environmental Engineering	Application of Novel Biocatalyst Technology for Nutrient Removal	Kellogg Schwab	BSPH
Jane Shin	2019	KSAS	Public Health Studies	What really determines your health?		
Christopher Simmons	2016	WSE	Computer Engineering	Design of an Eye Tracker within the Oculus Rift for Visual Saliency Applications	Ralph Etienne-Cummings	WSE

Yitzhak "Titzy" Snow	2016	WSE	Materials Science & Engineering	Electrochemical deposition of Lanthanum Thin Films	Jonah Erlebacher	WSE
Miguel Sobral	2017	WSE	Biomedical Engineering	Addressing the Shortcomings of Convection Enhanced Delivery to the Brain	Justin Hanes	SoM
Susana Soto	2017	KSAS	Molecular & Cellular Biology	Extracellular Vesicle Release from HIV-Susceptible Myeloid Lineage	Kenneth Witwer	SoM
Gabrielle Stephens	2016	KSAS	Environmental Science	Biocharming Baltimore	Alexios Monopolis	KSAS
Amanda Sun	2018	WSE	Environmental Engineering	Study of a Reactive Barrier for the Biodegradation of Chlorobenzene Contaminants in Groundwater	Edward Bouwer	WSE
Noel Swanson	2016	KSAS	Environmental Science	New Perspectives for a More Sustainable Baltimore	Alexios Monopolis	KSAS
Edric Tam	2016	WSE	Biomedical Engineering	Dissecting the Molecular Mechanisms that Underly Cortical Circuit Development	Alex Kolodkin	SoM
Arjun Tambe	2017	KSAS	Biology	The function of the loop region of AraC in inducing and repressing gene expression	Bob Schleif	KSAS
Monica Taneja	2018	KSAS	Public Health Studies	PET/CT in Therapy Response Assessment	Rathan Subramaniam	SoM
Ross Terry	2016	KSAS	History	Yazoo: The Native Roots of Populism in the Early Republic	Francois Furstenberg	KSAS
Sarah Trejo	2016	KSAS	Environmental Science	Revitalizing Baltimore's Forest Patches	Alexios Monopolis	KSAS
Brittany Tsou	2016	WSE	Materials Science & Engineering	Effect of a Local Release of Sunitinib from Aligned, Electrospun Poly(lactic-acid) Microfibers on Nerve Growth	Hai-Quan Mao	WSE
Ines Varela	2016	KSAS	Neuroscience	C9ORF72 mutation affects RNA editing of the GluA2 subunit of the AMPA receptor	Jeffrey Rothstein	SoM
Yu "Samantha" Wang	2017	WSE	Electrical Engineering	Wound Healing Enhancement: Study of the Effect of Iontophoresis on Transgene Expression	Ralph Etienne-Cummings	WSE
Julia Wareham	2016	KSAS	Archaeology	Protecting the Past: The Athienou Archaeological Project, Community Engagement, and the Preservation of Cultural Heritage	Emily Anderson	KSAS
Peter Wilke	2016	KSAS	Environmental Science	Monitoring the Urban Heat Island Effect in East Baltimore	Alexios Monopolis	KSAS
Matthew Williams	2017	KSAS	Biology	Linear Accelerator Based Prostate Radiotherapy Effects on Serum Testosterone	Drew Moghanaki	SoM
Mark Wo	2016	WSE	Materials Science & Engineering	Improved Processing for Gene Therapeutics: Development and Validation of Devices for Micromixing	Hai-Quan Mao	WSE
Sinan "Kimberly" Xiang	2016	WSE	Materials Science & Engineering	Selectively Permeable Nanofiber to enhance functional recovery in peripheral nerve repair and limb allotransplantation	Gerald Brandacher	SoM

Qinze "Arthur" Zhang	2016	KSAS	Molecular & Cellular Biology	Selective Generation of Fluorinated Building Blocks toward Complex Molecule Synthesis via C-C Bond Cleavage	Thomas Lectka	KSAS
Shuran "Ryan" Zhang	2016	KSAS	Neuroscience	Characterization of RZ1 Transgenic Mice Driven by TH-tTA	Ted Dawson	SoM
Zachary Zilber	2017	KSAS	Chemistry	Reactivity Studies of N-substituted Hydroxamic Acids with Pyrazolone Leaving Groups	John Toscano	KSAS

## Undergraduate Research Day - 2016 Presenters

Presenter	Year	School	Primary Major	Project Title
Suleiman Abiola	2016	KSAS	Public Health Studies	Effects of Therapeutic Hypothermia for early Hypoxic Ischemia on Behavior and Motor Function in Developing Mice
Benjamin Adler	2015	KSAS	Neuroscience	The role of BDNF promoter I and Promoter IV in isolation-induced Aggression in Male Mice
Lauren Aldoroty	2017	KSAS	Physics	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Aribiye Artola	2016	KSAS	Public Health Studies	Understanding Mood Disorders: Bipolar Disorder
Jordan Baker	2015	WSE	Chemical & Biomolecular Engineering	Carotenoid and Lipid Production in Photoautotrophic Microalgae
Joshua Barza	2015	WSE	Environmental Engineering	Analyzing Precipitation and Stream Isotopic Composition in an Urban Watershed
Ilana Bookner	2015	WSE	Applied Math & Statistics	Baseball Schedule Optimization
Kathryn Botto	2015	KSAS	East Asian Studies	The Propaganda of Oppression: Imperial Japan and Xinjiang
Naomi Bouchard-Gordon	2015	KSAS	Sociology	Waves of Global Social Protest in Comparative and Historical Perspective
Madalena Brancati	2018	KSAS	Archaeology	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Julia Broach	2015	KSAS	Anthropology	Notions of Self and Moral Development in Children
Brett Brodsky	2016	KSAS	Environmental Science	A human stem cell model for studying genetic mutations in an inherited neurodevelopmental disease
Yue "Stacy" Cao	2015	KSAS	Neuroscience	Down Syndrome and Developmental Regression in Childhood: Prenatal, Perinatal, Neonatal Events
Michael Caplan	2015	KSAS	Neuroscience	miRNA-148a Actively Promotes Differentiation, Tumor Suppression, in Glioblastoma Cells
James Caracoglia	2015	KSAS	Neuroscience	Investigating the Capacity for Association Re-learning in Anterogade Amnesia'
George Chen	2015	WSE	Biomedical Engineering	BME Builds: Online Tutorials in Medical Electronics
Ivan Chen	2015	KSAS	Molecular & Cellular Biology	The Role of HIF-1 in GSH Biosynthesis
Letitia Chim	2016	WSE	Materials Science & Engineering	Study of migration guidance of neurons and Schwann cells in response to immobilized neurotrophic factor gradients and topographical guidance
Alfred Chin	2018	KSAS	Neuroscience	Quantifying Neurodegeneration Induced by Chronic Low-level Expression of HIV-1 Tat Protein
Hana Chop	2018	KSAS	History	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Dane Clark	2017	KSAS	Near Eastern Studies	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Anne Cohen		KSAS	Behavioral Biology	Getting FITT: Addressing Obesity Concerns with Neurobehavioral Intervention
Abigael Collins	2017	KSAS	Writing Seminars	The Guardian and Other Sacred Trees of New South Wales

Christopher Consolino	2014	KSAS	History	Mapping Early North America's Global Context
Daniel Contaldo	2016	KSAS	Film & Media Studies	Documenting the Libera Program in Italy
Shawn Costello	2015	KSAS	Biophysics	A Computational and Experimental Model for Membrane Protein Flux
Phillip Croce	2015	KSAS	Neuroscience	Genome-wide Drosophila Screen to Identify Modifiers of PARIS Neurotoxicity
Bryn Cross	2015	KSAS	Neuroscience	Molecular Dissection of Reactive Astrocytes
Randy Cruz	2016	KSAS	Molecular & Cellular Biology	Physiological Roles of Olfactory Receptors in Human Airway Smooth Muscle Cells
Celine Cua	2015	WSE	Environmental Engineering	Ipython Notebooks on Landscape Hyrdology
Michael Cunningham	2015	WSE	Materials Science & Engineering	Surface modification of electrospun nanofibers for detection of acid-fast Bacilli using direct microscopy
Anita Dam	2015	KSAS	History of Science, Medicine & Technology	Medicus or Medica? Female Authorship in Galen's Medical Recipes
Cameron Davis	2016	KSAS	Philosophy	Challenging the Disease Model: A Comprehensive Analysis of Drug User Responsibility
Giana Dawod	2016	KSAS	Neuroscience	The Effect of a Range of Bilingualism on Cognitive Performance in Non-Language Cognitive Domains
Savannah de Montesquiou	2017	KSAS	History of Art	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Gabriel Denis	2015	KSAS	History	The Christie Affair: Anglo-Brazilian Diplomacy, Slavery, and the Americas in the Nineteenth Century
Justin Falcone	2015	KSAS	Archaeology	Desert Islands: Manifestations of water scarcity in Southern Arabia and the South Pacific
Ashley Fallon	2016	KSAS	Near Eastern Studies	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Hayden Fennell	2015	WSE	Materials Science & Engineering	Development of a Comprehensive Online Resource - Molecular Dynamics Simulations
Elizabeth Fortson	2015	KSAS	Environmental Science	Celebrating the Trees of Homewood Campus
Daniel Friedman	2017	KSAS	Philosophy	The Justification of Parsimony
Ryan Gallo	2014	KSAS	Neuroscience	In vivo alteration of schizophrenia associated transcription factor 4 (TCF4) expression in rat neocortex.
Stacy Gil	2015	WSE	Biomedical Engineering	Developing a web-based educational applet on the cerebral vasculature
Rustin Golnabi	2015	WSE	Materials Science & Engineering	A fluidic device for the dielectrophoretic separation of semiconducting and metallic single-walled carbon nanotubes
Jasmin Gonzalez	2015	KSAS	Environmental Science	The B'more Cool Project
Matthew Gonzalez	2016	WSE	Chemical & Biomolecular Engineering	Controlled Nanoparticle Synthesis and Characterization for Energy Technologies

Maddie Goodman	2017	KSAS	History	Gaging the agency held by Palestinian refugee women in family planning counseling at UNRWA clinics
Rebecca Grenham	2016	KSAS	Sociology	Waves of Global Social Protest in Comparative and Historical Perspective
Ivan Guan	2016	KSAS	Molecular & Cellular Biology	Legionella Virulence Factor MavP
Toni-Rose Guiriba	2015	WSE	Materials Science & Engineering	Assessing the cellular and nuclear uptake rates of polymers for gene delivery
Tai Kyung Hairston	2015	KSAS	Neuroscience	Osteopontin Message Upregulated in HIV Infected Astrocytes.
Diamond Hale	2016	KSAS	Public Health Studies	Feasibility of Church Based HIV Intervention for Young Adult Women
Katherine Hamlet	2015	KSAS	Molecular & Cellular Biology	Immune Response to Vaginal Lactobacilli
Karen Han	2015	WSE	Materials Science & Engineering	Photochromic Polymer Matrix Nanocomposites for Architectural and Green Applications
Seal-Bin Han	2017	WSE	Electrical Engineering	Development of miniaturized cochlear implant device for use in mice
Ziwei He	2017	KSAS	Environmental Engineering	Differences between indoor and outdoor temperatures in East Baltimore
Parvis "Daniel" Hejazi	2015	KSAS	Molecular & Cellular Biology	Investigation into the Translation of the Gap Junction Protein Alpha 8 (GJA8) Gene hcx50 Reveals a Secondary Protein Product
Evan Hess	2015	KSAS	Neuroscience	Characterization of an Ankyrin-G Conditional Knockout Mouse Model of Human Psychiatric Disorders
Margo Heston	2015	KSAS	Biomedical Engineering	Challenges in designing and developing an auditory training iPad app for adults with hearing loss
Sarah Hewes	2015	WSE	Materials Science & Engineering	Composite bio-ink for cell printing
Tony Hiranniramol	2015	WSE	Applied Math & Statistics	Baseball Schedule Optimization
Gwendolyn Hoffman	2016	WSE	Materials Science & Engineering	Chip-Based S-100B Assay for Diagnosis of Traumatic Brain Injury
Hyeryung "Allie" Hong	2016	WSE	Electrical Engineering	Granule Spray in Vacuum Piezoelectric Micro-machined Ultrasonic Transducer for Rangefinder
Ian Hooley	2015	WSE	Materials Science & Engineering	A genetic algorithm for accelerated structural alignment of transmembrane beta barrel proteins
Mir Shanaz Hossain	2015	KSAS	Neuroscience	Imaging the Spatiotemporal Progression of White Matter Injury after Neonatal Hypoxic-Ischemia
Riley Howard	2015	WSE	Materials Science & Engineering	Fundamental characterization of size and morphology for siRNA-polymer nanoparticles
Michael Howland	2016	WSE	Mechanical Engineering	Optimal Wind Turbine Placement Studied using Experimental and Computational Methods



Haley Huang	2015	KSAS	Biomedical Engineering	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Peter Huether	2015	KSAS	Environmental Science	Sustainable Food Systems Course
Samhita Ilango	2016	KSAS	Cognitive Science	Mindfulness Intervention in Parents of Children with Autism Spectrum Disorder: A Review of the Literature
Hannah Jin	2015	WSE	Materials Science & Engineering	Deriving cross bilayer transport energetics for de novo antimicrobial peptide design
Gertraud Johne	2014	KSAS	German	German Online Placement Exam
Erik Jorgensen	2015	KSAS	Environmental Science	Sustainable Food Systems Course
Peter Kalugin	2015	KSAS	Molecular & Cellular Biology	Elucidating Intracellular Signaling Logic Using Engineered Fluorescent Protein Sensors
Sri Kamal Kandala	2017	WSE	Mechanical Engineering	Publication of Biochemistry Lecture Notes in e-Book format
Yechan Kang	2016	WSE	Biomedical Engineering	pH-responsive Amphiphilic Poly( $\beta$ -amino ester)-Polyethylene glycol Block Copolymer Micelles for Anti-Tumor Drug Delivery
Nathaniel Kato	2015	WSE	Chemical & Biomolecular Engineering	Ethylene Detection and Controlled Ripening of Fruits
Chachrit Khunsriraksakul	2016	WSE	Biomedical Engineering	Functional Analysis of Upf1 and its Homolog Mtt1
Nancy Kim	2017	KSAS	Molecular & Cellular Biology	Effect of Early Hypoxia Ischemia and Therapeutic Hypothermia on Memory and Motor Function in Developing Mice
Woojin Kim	2015	KSAS	History	Petrarch's Letters to the Ancients: Was there a 'Self' in the Middle Ages?
Yoo Jin "Jenny" Kim	2015	KSAS	Neuroscience	Characterization of cross modal structural changes at thalamocortical synapses after sensory deprivation
Margaret Kneifel	2015	KSAS	Neuroscience	Cellular Iron Redistribution to Ion Channels (FeRIC) Allows Precise Temporal Control of Calcium Permeability in vivo
Gregory Konar	2017	KSAS	Molecular & Cellular Biology	Preliminary Investigations into the CRYAB Gene Show Potential Tumor Suppressor Like Qualities in Triple Negative Breast Cancer
Victoria Laney	2018	WSE	Chemical & Biomolecular Engineering	Analysis of MDA-MB-231 Breast Cancer Cell Decision Making in Y-Shaped Micro channels
Audrey Leasure	2015	KSAS	Neuroscience	Nocardia Infections at Johns Hopkins 1997-2013: A Retrospective Review
Justin Lee	2017	KSAS	Neuroscience	Can reflecting on habits affect subsequent navigational performance
Michael Lo Piano	2015	KSAS	History	This Christian Republic: Renaissance Historiography, Papal Propaganda, & Curial Reform in Platina's Lives of the Popes
Tianqi Luo	2015	KSAS	Molecular & Cellular Biology	Polymorphic Transposon Linkage to Disease



Samantha Lux	2015	KSAS	Molecular & Cellular Biology	Isolation of Mutations Synthetic Lethal With Endocytosis Adaptor Proteins
Rebecca Marcus	2015	KSAS	Neuroscience	Risk Indifferent Rhesus Macaques with Self Injurious Behavior
Paul Markakis	2015	WSE	Applied Math & Statistics	Final Exam Scheduling: An Integer Programming Approach
Maximilian Marshall	2016	WSE	Civil Engineering	Infrastructure Optimization: Bicycling in Baltimore and Oil/Climate Modeling
Molly Martell	2014	KSAS	Archaeology	An Investigation of Elemental Biogenic Uptake: The Examination fo Portable X-ray Fluorescence as a Method of Osteological Analysis
Kelly McBride	2018	KSAS	Classics	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Nicole Michelson	2015	KSAS	Neuroscience	Epigenetic Modulation of miR-296-5p
Megan Morrow	2015	KSAS	Environmental Science	Johns Hopkins Green Guide
Heman Muleta	2015	KSAS	Public Health Studies	Incentives and Online Social Networking: Impact on Weight-Related Behaviors among College Students
Elizabeth Neylan	2016	KSAS	Public Health Studies	The Summer Research and Impact Institute
Katarina Nguyen	2015	KSAS	Molecular & Cellular Biology	The Effects of Guanylate Kinase-Like in CARD-11 on NF- $\kappa$ B Signaling
Maisa Nimer	2015	KSAS	Molecular & Cellular Biology	Phosphorylation of ribosomal stalk proteins – What is the purpose?
Mackenzie Norman	2015	KSAS	Neuroscience	Shelf space devoted to nutritious foods correlates with BMI
Norah Oles	2015	KSAS	Neuroscience	The role of AMPK in the brain: The effect of AMPK knockout on learning, m,emory & coordination
Kee "Josh" Park	2015	KSAS	Neuroscience	Profiling the Metabolome of Multiple Sclerosis
Jessica Park	2015	KSAS	Neuroscience	Exploring the Relationship between Neural Efficiency, Cognitive Reserve, and APOE- $\epsilon$ 4 gene in Alzheimer's Disease
Jun Hyun "Mick" Park	2015	KSAS	Neuroscience	Differential contribution of amygdala and midbrain regions in encoding surprise
Shannon Parker	2015	KSAS	Behavioral Biology	Effects of local testosterone on neuroplasticity of the circuitry underlying birdsong
Corey Payne	2017	KSAS	Sociology	World Income Inequality in Historical Perspective
Allison Perry		KSAS	Public Health Studies	Public Health Studies
BaDoi Phan	2016	WSE	Biomedical Engineering	Modeling and Designing Pre-Lab Videos & Animations
Edwina Picon	2016	KSAS	Philosophy	An Empirical Study of the Allais Paradox with Moral Judgments
Sahini Pothireddy	2015	KSAS	Molecular & Cellular Biology	RK33 Inhibits the Expression of DDX3, a Regulatory Unit in the Proliferation of Colorectal Cancer Cells
Katherine Prochownik	2015	KSAS	Public Health Studies	Preventing Childhood Obesity: Barriers Among Food Kiosk Owners to Implement Healthy Food Regulations in the Chilean School System

Gianna Puzzo	2015	KSAS	History of Art	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Georges Quist	2015	KSAS	Sociology	World Income Inequality in Historical Perspective
Emily Rencsok	2016	WSE	Biomedical Engineering	Modeling and Designing Pre-Lab Videos & Animations
Monica Rex	2016	WSE	Biomedical Engineering	Modeling and Designing Pre-Lab Videos & Animations
Katrina Rios	2018	KSAS	Public Health Studies	Change in Health-Related Quality of Life Between Evaluation for Kidney Transplantation and Transplantation
Caitlin Romanczyk	2016	WSE	Biomedical Engineering	BME Builds: Online Tutorials in Medical Electronics
John Ross	2015	KSAS	Mathematics	Placement Exam Design & Implementation in Blackboard
Edward "Ned" Samson	2015	WSE	Mechanical Engineering	How do humans synchronize movements with an external rhythm?
Henry Sanchez	2016	WSE	Materials Science & Engineering	Modeling Blood-Brain Barrier Transport In-Vitro Using Hydrogel Microfibers
Neel Sangal	2014	KSAS	Public Health Studies	Modulation of HIV Replication in Primary Human T-cells by Inflammasome Associated Cytokines
Travis Schmauss	2016	WSE	Materials Science & Engineering	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
James Shamul	2017	WSE	Biomedical Engineering	pH-responsive Amphiphilic Poly( $\beta$ -amino ester)-Polyethylene glycol Block Copolymer Micelles for Anti-Tumor Drug Delivery
Yi Shao	2015	KSAS	Neuroscience	Evaluating the efficacy of an anti-epileptic agent as a treatment for symptoms of Schizophrenia
Elizabeth Shaya		KSAS	Public Health Studies	Public Health Studies
James Sheperdson	2016	KSAS	Molecular & Cellular Biology	HtrA mutants influence folding and quality control of secreted proteins in Bacillus anthracis
Haziq Siddiqi	2016	KSAS	Molecular & Cellular Biology	Interaction between stochastic and deterministic genetic factors in visual nervous system development
Katie Silva	2015	KSAS	Neuroscience	Cortical Neurons are a Prominent Source of the Pro-Inflammatory Cytokine Osteopontin in HIV-Associated Neurocognitive Disorders
Alexander Sivitskis	2015	KSAS	Earth & Planetary Sciences	Satellite Mapping of Irrigated Sediments and Copper Slag With Spectroradiometry
Anna Soifer	2017	KSAS	Archaeology	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Momodou Sonko	2016	KSAS	Molecular & Cellular Biology	Elucidating the Epigenetic Mechanisms Associated with Mammalian Pubertal Onset
Mark Spencer	2015	KSAS	Neuroscience	Mutant Astrocytes Overall Effect on Cortical Neurons
Amy Sun	2016	WSE	Biomedical Engineering	Automated Reconstruction Algorithm to Investigate Breast Cancer Progression

Kimiko "Sara" Suzuki	2015	KSAS	Molecular & Cellular Biology	Prevention of Cerebrovascular Disease by Use of a Glycosyltransferase Inhibitor
Thomas Swift	2015	WSE	Materials Science & Engineering	Porous Tantalum Fabricated via Dealloying for Capacitor Applications
Jian Han "Abraham" Tan	2015	WSE	Materials Science & Engineering	Optimizing the thermoelectric properties of a solution-processed composite polymer by engineering the film morphology
Jai Thakor	2017	KSAS	Molecular & Cellular Biology	MiniBrain-Modeling Double Cortex Syndrome with iPSCs and Cerebral Organoids
Alison Tretter	2015	KSAS	Archaeology	Frida Kahlo's Indigenist Identity and the Johns Hopkins Archaeological Museum
Brian Tung	2014	KSAS	Neuroscience	Tenascin-C Regulates Glioblastoma Stem-Like Cell Go-or-Grow by Modulating Tumor Microenvironment
Hugo Uvegi	2015	WSE	Materials Science & Engineering	Controlling reactivity of sequential hydrogen oxidation and evolution with porous metal catalysts
John Vandermark	2016	WSE	Materials Science & Engineering	Polymer based nano particles for targeted gene transfection in prostate cancer cells
Marija Vasiljevic	2015	KSAS	Neuroscience	Regeneration of serotonin axons in the neocortex of the adult mouse probed with in vivo two-photon imaging
Cristina Viquera Altolaguirre	2015	KSAS	Neuroscience	Study of the Efferent Re-Innervation of Mammalian Inner Hair Cells with Age-Related Hearing Loss"
Anne Vipperman-Cohen	2015	KSAS	Behavioral Biology	Getting FITT: Addressing Obesity Concerns with Neurobehavioral Intervention
Eli Wallach	2015	KSAS	Sociology	Waves of Global Social Protest in Comparative and Historical Perspective
Tony Wang	2018	WSE	Biomedical Engineering	Extracellular Matrix Derived Nanoparticles for Soft Tissue Regeneration
Elizabeth Winkelhoff	2018	KSAS	Archaeology	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Stephen Wong	2015	WSE	Civil Engineering	Transportation Logistics of Low-Income Families
Dean Yacar	2017	WSE	Environmental Engineering	Linking Phytoremediation to Biofuel Feedstock Productio
Priscilla Yan	2015	KSAS	Neuroscience	Developmental alcohol exposure impairs activity-dependent S-Nitrosylation of NDEL1 for neuronal maturation
Hanzhe "Harry" Zhang	2017	KSAS	Public Health Studies	World Income Inequality in Historical Perspective
Qinze "Arthur" Zhang	2016	KSAS	Molecular & Cellular Biology	Recreating Ancient Greek Ceramics: An Interdisciplinary Collaboration
Yi "Stephanie" Zhang	2014	KSAS	Neuroscience	The stress of blast-induced traumatic brain injury
Zhuo "Ben" Zhang	2016	WSE	Electrical Engineering	High-Speed Pseudorandom Grayscale Pattern Generation for Ultrafast Compress
Cyrus Zhou	2015	KSAS	Biophysics	Stochastic spineless expression in natural Drosophila variants

Hannah Zimmerman

2015 KSAS Neuroscience

The Role of the Parafascicular Nucleus of the Thalamus  
in Attention Processing during Reward Reversal