

## **DURF RECIPIENTS 2022-2023**

### **Fall 2022**

#### **Lisa Abe**

“The Possible Role of Secernin-1 in Tau Phosphorylation of Alzheimer's Disease”

*Collegiate Research Scholar*

#### **Hayley Ackerman**

“Egypt (1922-1937): Interwar Sovereignty and the Limitations of the Postcolonial State in the Transnational Sphere”

*William B. Baer Research Scholar*

#### **Rafael Baez**

“Creation of Biodegradable Mesh To Reduce Pollution in MacroInvertebrate Analysis”

*Collegiate Research Scholar*

#### **Evie Bair**

“Las Meninas and The Prado Museum’s Changing Relation to Spanish Society”

*Robert A Fowkes Research Scholar*

#### **Ethan Bakal**

“Characterizing and contextualizing the spore coat protease PrkA in Bacillus subtilis”

*Max Bronner Research Scholar*

#### **Freddy Barrera**

“The Impact of Economic Recession on Deportations of Undocumented Latinx Immigrants in the United States”

*Collegiate Research Scholar*

#### **Yiming Bian**

“coupled oscillation of firefly, the spontaneous synchronization in nature”

*Collegiate Research Scholar*

#### **Ivan Brea**

“Divine Mediations: Representations of Religion, Clericalism, and Religious Imagery in Mexican Cinema (1917-2018)”

*Collegiate Research Scholar*

#### **Violet Brede**

“Children's beliefs about the consequences of economic disadvantage in education and work”

*John G Fleming Research Scholar*

**Maureen Brusco**

“An Approach to Bioconjugation Using Caged Michael Acceptors Allowing for Temporal Control and the Use of Less Harsh Conditions.”

*Collegiate Research Scholar*

**Adam Bruzzese**

“The Characterization and Localization Dynamics of YpJB in Bacillus subtilis Sporulation.”

*Peter Bergmann Research Scholar*

**Julia Cai**

“Calcium dynamics in glioma”

*Collegiate Research Scholar*

**Natalia Castillo, Laura Gabriela Pedroza, Laura Valencia**

“Impact of exercise and CB1r agonists and antagonists on threat response and parvalbumin cell activity, as measured by Signaled Active Avoidance and c-Fos levels respectively”

*Collegiate Research Scholar*

**Lexi Cha**

“Dissecting the Shelter-Industrial Complex for Structurally Competent Solutions to Homelessness”

*Collegiate Research Scholar*

**Justyn Chang**

“Investigation of ZIP9 Zinc Transporter in T cell Function”

*Collegiate Research Scholar*

**Lolayemi Charles**

“Assessing Pregnancy Experiences of Black and Afro-Latine Birthing People for Factors of Health, Safety, and Risk”

*Joan Kupersmith Larkin Research Scholar*

**Allison Chen**

“Synaptic activity in interneurons”

*Collegiate Research Scholar*

**Carrie Chen**

“The effects of CTCF mutation on various cancers”

*Collegiate Research Scholar*

**Franklin Cheng**

“Chinese International Students at New York University”

*Howard Levene (WSC '41) Research Scholar*

**Evan Cheng**

“Confirmation of Alzheimer's Pathology in 5xFAD LysM/Csf1R Depleted Mice”

*Collegiate Research Scholar*

**Estefania Chinchilla**

“An Intersection: Dialect Influences on Translation and Their Linguistic Consequences”

*Collegiate Research Scholar*

**Anyu Ching**

“Back to Boogie Street: The evolution of transgender rights and expression in Singapore.”

*Collegiate Research Scholar*

**Olivia Cho**

No title provided

*Collegiate Research Scholar*

**Sean Cleary**

“The Effect of Perfectionism on Effort and Self-Monitoring in Interracial Interactions”

*Collegiate Research Scholar*

**Caroline Cook**

“Moroccan Jewish Art Under French Colonialism”

*Susan and Robert Grossman Research Scholar*

**Sophia Cordeiro**

“The Role of Parents' Beliefs about Science and their Use of Subtle Linguistic Cues in Shaping their Children's Science Outcomes”

*Collegiate Research Scholar*

**Angelo Crawford**

“The Role Silica Polish Accumulation on Danish Flint Blades Revealing Insight on Lithic Functionality”

*Dr Charles Barbieri Research Scholar*

**Teagan Daly**

“Estimating the Number of Computational Dendritic Units”

*Collegiate Research Scholar*

**Lasya Damaraju**

“Shape Shifting Colloidal Chains: A path to colloidal machines”

*Collegiate Research Scholar*

**Ari Davydov**

“Investigating the mechanism of microsporidia invasion into the host cell”  
*Collegiate Research Scholar*

**Ainsley Dean**

“Social lives and Subways: How the Presence of Public Transit Affects Social Interaction in Urban Environments”  
*Collegiate Research Scholar*

**Ethan Delgado**

“Dynamic Decision Tree: Automated Decision Making”  
*Collegiate Research Scholar*

**Annika Dhingra**

“Does 40-Hz light stimulation entrain native gamma oscillations and affect Alzheimer's pathology?”  
*Collegiate Research Scholar*

**Lincoln Dow**

“An Experiment Investigating Implicit Trust in Government”  
*Barnet and Phyllis Liberman Research Scholar*

**Andre Dubovskiy**

“Omnidirectional Drivetrain with Spherical Magnetic Wheels”  
*Collegiate Research Scholar*

**Renata Elizalde Carrillo**

“White Majority Group Members’ Need for Uniqueness in Online Interracial Interactions”  
*Collegiate Research Scholar*

**Delaney Espinoza**

“At what concentration of nutrients do cancer cells die when only some essential nutrients are available and others are absent.”  
*Collegiate Research Scholar*

**Monique Ezeh**

“Identity saliency's effects on political participation”  
*Harold E. Akselrad Esq. Research Scholar*

**Tianyun Fang**

“Dynamic Risk Factors of Intimate Partner Violence and Policy Suggestions”  
*Dr. Molly S. Geller Research Scholar*

**Debola Fatade**

“FAMiLI study: Understanding the role of the human microbiome in disease outcomes”  
*Collegiate Research Scholar*

**Star Fitzmaurice, Sam Colman, Huizhen Jin**

“Investigating the Relationship Between the Severity of ADHD Symptoms and Music Taste”  
*Collegiate Research Scholar*

**Serena Fu, Andrew Mota, Lisa Zhu**

“Preferential looking at own-race versus other-race faces across infancy”  
*Jack Sitt Research Scholar*

**Eva-Merce Fuentes**

“Methodological Study of Lumbar Lordosis Measurements in H. sapiens.”  
*Collegiate Research Scholar*

**Runji (Randy) Gao**

“Nation-level determinants of internet search algorithm output”  
*Dr. Dorothy Starr Research Scholar*

**Runji (Randy) Gao**

“Effects of internet search algorithm output on climate action”  
*Collegiate Research Scholar*

**Carla Garcia Medina**

“Mining Reinforcement Learning Reward Functions from Vision-Language Models.”  
*Sylvia Engel Friedman Research Scholar*

**Aurora Ghorab**

“A Critical Analysis of the 'Metropolitan Native', Acculturation, and Accountability through the Oral History of Dr. Hiawatha Goins-Baron”  
*Russell and Diane Hawkins Research Scholar*

**Anjali Golechha, Mona Lebrun, Ana Jaen**

“Parent-Child Conversations About Service”  
*Collegiate Research Scholar*

**Seb Goodwin-Groen**

“Investigating the potential of multi-dose ketamine treatment to ameliorate activity based anorexia vulnerability in mice”  
*Collegiate Research Scholar*

**Sydney Green**

“Unearthing Nonconformity: Applying the Queer Lens to Prehistoric Europe”

*Mary Rudie Barneby Research Scholar*

**Jordan Gross**

“Studying sex-differences in innate mating and social behaviors in Foxp2+ cells in the medial amygdala”

*Collegiate Research Scholar*

**Linya Guo**

“Using optimized light-inducible Cre recombinase mice to study the role of chemokine receptors in T cell exit from the skin”

*Collegiate Research Scholar*

**Annelise Guo**

“The Gender Wage Gap and The Ultimatum Game”

*Collegiate Research Scholar*

**Baron Guo**

“Minimal time horizon for relative arbitrage in the stochastic portfolio theory framework”

*Collegiate Research Scholar*

**Mehnaz Halima**

“Characterizing Regulation of the G2 Phase Specificity of RNase H2 in Ribonucleotide Excision Repair”

*Collegiate Research Scholar*

**Claire Hornburg**

“Mathematical Modeling of Maternal-Zygotic Genetic Effects”

*Nathan and Sarah Chesin & Bernard and Mollie Steuer Research Scholarship in the Life Sciences*

**Claire Hornburg**

“3-D Holographic Optical Trapping and Knotted Force Landscapes”

*Collegiate Research Scholar*

**Zeru Hu**

“Aesthetic Judgment and Games”

*Marion Cohen Griffel Research Scholar*

**Ian Hu**

“The Effect of Paradoxical Knowing in the Context of Stock Market Trading”

*Collegiate Research Scholar*

**Jiayu Huang**

“Gender Criticism of “Dream of the Red Chamber”

*Hirschfeld Family Research Scholar*

**Whitney Hughes**

“Social Dominance Orientation and Political Ideology shape mental representations of inequality”

*Collegiate Research Scholar*

**Hope Jackson**

“Gender in Irish Sign Language: The Development, Difference, and Erasure of Female ISL”

*Roger and Beth Carlton Research Scholar*

**Alexis Jacobson**

“Optimizing neoantigen immunogenicity assessment pipeline by enhancing epitope processing”

*Linn-Cohen Family Research Scholar*

**Maisha Jacy**

“Functional role of transcription factors in regulating neuronal development in the Drosophila visual system”

*Collegiate Research Scholar*

**Mara Jaffe**

“Side-Specific Tensegrity Triangle Coatings on Target Face Crystal”

*Collegiate Research Scholar*

**Sebastian Jamshahi**

“Generation of motor neurons by forced expression of neurogenin-2 with retinoic acid and smoothened agonist”

*Collegiate Research Scholar*

**Kathryn Jano**

“A Developmental Investigation on Descriptive vs. Prescriptive Perceptions of Social Hierarchies”

*Walter and Phyllis Loeb Research Scholar*

**Jordan Janowski**

“Encoding Chirality to Create More Versatile DNA Nanostructures Based on Interjunction Base Pair Sequencing”

*Collegiate Research Scholar*

**Yuhan Jiang**

“Defining Genetic Variation Associated with DNA Damage Sensitivity”

*Collegiate Research Scholar*

**Maria Valentina Jiminian**

No title provided

*Collegiate Research Scholar*

**Chuanyang Jin**

“Deciphering the Mechanisms of RNA Splicing with Interpretable Machine Learning”

*Collegiate Research Scholar*

**Lily Johnson**

“How are you feeling? Investigating the social class-empathic accuracy association in naturalistic videos.”

*Collegiate Research Scholar*

**Marion Kalina Heinrich**

“The Syntax and Pragmatics of Question-Response Pairs between Caregivers and Children with Autism”

*Daniel Getman and Leonard Marker Memorial Research Scholar*

**Cassie Kang**

“What contributes to occupational status? Investigating how gender-stereotypic job attributes are related to perceptions of occupational prestige”

*Collegiate Research Scholar*

**Soofia Khaledi**

“Does generational status have an effect on the perception of immigrants’ assimilation?”

*Collegiate Research Scholar*

**Mashrur Khan**

“Dose of Skepticism: How People Decide to Get Vaccines”

*Collegiate Research Scholar*

**Samaa Khullar**

“Mental health disparities in the Hashemite Kingdom of Jordan: from Amman to the Zaatari Refugee Camp”

*Collegiate Research Scholar*

**Cassidy Kohler**

“Optogenetic manipulation of default inhibitory phase locking in a mouse model of temporal lobe epilepsy”

*Collegiate Research Scholar*

**Anastasiia Korolevskaia**

“Trait Dependency in the Iterated Prisoner's Dilemma Game”

*John and Julia Lindsey Research Scholar*



**Bindu Koyi**

“AlphaFold 2.0 modeling of the Tafazzin structure in Barth syndrome”

*Collegiate Research Scholar*

**Maya Kreitman**

“Making Sense 3 - Adult Cross”

*Collegiate Research Scholar*

**Sean Ku**

“An Analysis of Saturn’s Ring Structure with Camera Projection Mapping Model”

*Collegiate Research Scholar*

**Victor Kuang**

“Modeling of Saturn’s Rings based on Cassini Imaging”

*Collegiate Research Scholar*

**Nicholas Labranche**

“Particle spectrum of strings in AdS/CFT”

*Collegiate Research Scholar*

**Rohan Lalla**

“An Postindustrial Atlas of Yemini Buffalo, New York”

*Giuseppe Astorina Research Scholar*

**Vivian Lee**

“Identifying the role of cingulate cortex on listening effort in gerbils”

*Collegiate Research Scholar*

**Sam Lewis**

“Patriotism and the Internet: The Conversation of Guns on Facebook”

*Sidney Feldshuh & Lillian Kaplan Feldshuh Research Scholar*

**Sarah Li**

“Effects of Community Mobilization on Non-communicable Disease Outcomes: A Scoping Review”

*Collegiate Research Scholar*

**Austin Li**

“The positive effect of US economic sanctions on support for the leading political party in Venezuela”

*Collegiate Research Scholar*

**Leo Li**

“Mindfulness and Cognitive biases: testing moderator effects of cognitive closure and motivation behind risk-taking”

*Collegiate Research Scholar*

**Yuelong Li**

“A framework for automatic input validation, documentation, and user-interface synthesis for scientific computing”

*Collegiate Research Scholar*

**Yuelong Li**

“Finding multiple equilibria in plasma Woltjer-Taylor states”

*Collegiate Research Scholar*

**Shannon Li**

“How are you feeling? Lower social status predicts enhanced social (but not nonsocial) working memory”

*Collegiate Research Scholar*

**Sally Liang**

“Mechanical exfoliation of h-BN flakes and dry pick-up transfer process”

*Collegiate Research Scholar*

**Yizhuo Liang, Weiran Xu**

“Assertions for Distributed Applications”

*Collegiate Research Scholar*

**Renee Liang**

“RNA Localization and Protein Analysis in the Drosophila Optic Lobe”

*Collegiate Research Scholar*

**Gloria Liu**

“Unconventional Political Engagement and Meaning-Making Through Fanfiction”

*Bailey Family Research Scholar*

**Josephine Liu**

“Targeting Cancer Cell Co-attraction using CRISPR-cas9 Editing”

*Collegiate Research Scholar*

**Luke Liu**

“Learning syntax and semantics jointly to encourage compositional generalization”

*Collegiate Research Scholar*

**Hanyun Liu**

“Third Child Policy and Fertility intention: What factors influence the decision to have a third child for couples in China?”

*Collegiate Research Scholar*

**Peiqi Liu**

“Denoise images with unsupervised methods”

*Collegiate Research Scholar*

**Zhiheng Liu**

“An investigation on the separate contributions of agency-communion perceptions and male-female representations on job prestige”

*Collegiate Research Scholar*

**Matthew Lorenzo**

“Self-Assembly of an i-motif pH sensor Within a 3D DNA Lattice”

*Collegiate Research Scholar*

**Idalys Lozano**

“Patterning Twisted Molecular Crystals for Chiroptics”

*Collegiate Research Scholar*

**Yilin Luo**

“Combating Hate: A Mixed Method Research on the Social and Ideological Functions of Asian Americans Volunteer Group Under the New Waves of Hate Crimes”

*Myron Kove Research Scholar*

**Jinhan Luo**

“The Simulation of Infinitely Repeated Prisoner's Dilemma using Markov Chain”

*Collegiate Research Scholar*

**Nahusha Madhusudan**

“Can collective narcissism predict conservatives’ greater negative attitudes than liberals towards immigrants who are slower to culturally assimilate?”

*Drs. Mayank and Amita Patel Research Scholar*

**Oliver Madilian**

“Modeling Collective Cell Migration in Ciona During Early Development”

*Collegiate Research Scholar*

**Zoe Makler**

“What factors influence what majors college students pursue?”

*Collegiate Research Scholar*

**Charlene Manipon**

“Characterizing the Selectivity of KdpFABC Towards Different Ions”

*Collegiate Research Scholar*

**Kirsten Mark**

“How do infants categorize scenes?”

*Collegiate Research Scholar*

**Hamleini Martinez**

“How does a lack of racial diversity in healthcare professionals contribute to racial disparities in healthcare?”

*Collegiate Research Scholar*

**Rachel Mascolo**

“Banned Book Policies and Voter Mobilization: A Unifying Issue or A Political Weapon?”

*Angelica Foundation Research Scholar*

**Merritt McDowell**

“Characterization and Nanoconfinement of Photoresponsive 1,2-Bis(2-methyl-5-phenyl-3-thienyl)perfluorocyclopentene”

*Collegiate Research Scholar*

**Alisha Meghani**

“Pakistan's Blood Money Laws: Violence Against Women and A Failed Attempted at Restorative Justice”

*Eileen Guggenheim Research Scholar*

**Azucena Melchor**

“Safe Spaces?: A dive into Bushwick's culture of techno music and its impacts on those around it.”

*Collegiate Research Scholar*

**Eden Seran Min**

“The Crime of Disability”

*Nathan Ende Research Scholar*

**Sophia Moore-Smith**

“Cape Verde”

*Arthur Frommer Research Scholar for Travel and Global Studies*

**Christopher Morales**

“Comparison of the Contrast Sensitivity Curve between Humans and Non-Human Primates”

*Benjamin PB and Fannie LG Feldman Research*

**Nayeli Moronta**

“Medical Mistrust in Reproductive Health: Comparing the Experiences of Black and Latinx Women vs. White Women”

*Salant Family Research Scholar*

**Sophia Motai**

“Status and Linguistic Accommodation”

*Liebman Family Research Scholar*

**Kayla Nappi**

“The commodification of Spanish by both native English and native Spanish speakers in New York City elementary-school Dual Language programs”

*Ariel and Alaleh Ostad Research Scholar*

**Maya Navarro**

“Elucidating the pro-metastatic mechanisms of CNDP1 in melanoma brain metastases”

*Collegiate Research Scholar*

**Julia Xin Yu Ng**

“Taking Stock: How Tastemakers Shape the Singaporean Sustainable Fashion Scene”

*Collegiate Research Scholar*

**Brooklyn Nguyen**

“A Visual Attention Intervention to Reduce Intergroup Bias in Appraisals of Video Evidence”

*Collegiate Research Scholar*

**Katherine Norton**

“A bacterial genetic screen to identify how diet regulates *C. elegans* germline stem cells”

*Collegiate Research Scholar*

**Esofi Nunyi**

“Student's experiences in their transition from pediatric to adult care”

*Ravi and Nalni Saligram Research Scholar*

**Mila O'Malley**

“Evaluating MHC-1 Expression in B16 Melanoma Cells In Response to Interferon Gamma Considering Temporal and Tumor Microenvironment Variations.”

*Collegiate Research Scholar*

**Mofiyinfoluwa Okeremi**

“The Criminalization of Hip-hop through Rap in the United States”

*Collegiate Research Scholar*

**Anya Pabby**

“Bias in Medical School Interviews”

*Collegiate Research Scholar*

**Aashay Pai**

“Probing Complex Dynamical Systems Using Spatio-Temporal Spectral Holography”

*Collegiate Research Scholar*

**Akeylah Pamphile**

“The Result of Social Isolation as a Result of COVID-19 on the Behaviors of College Students”

*Collegiate Research Scholar*

**Guinevere Pandolfi**

“Uncovering the Origins of Endangered Foraging and “Lost Year” Green Turtles along the Coast of Brazil”

*Collegiate Research Scholar*

**Jyo Pari**

“My colleague and I are advised by Prof Lerrel Pinto, and we are trying to combine non parametric models with online reinforcement learning to allow robots to learn in the real world.”

*Collegiate Research Scholar*

**Yash Patel, Brandon Sato**

“How should you be referring to the climate crisis for higher impact?”

*Daniel A Swick Research Scholar*

**Manav Patel**

“Construction of a Random Positioning Machine for Simulated Microgravity of Cells”

*Collegiate Research Scholar*

**Nicolas Pedrero-Setzer**

“Microcinemas: Marginal Moviegoing Practices in Contemporary America”

*Steffi Berne Research Scholar*

**Katerina Petroff**

“Mesenchymal Stromal Cell Contribution to Adipocytes in Fat Pads”

*Collegiate Research Scholar*

**Midhula Pillai**

“The Behavioral Impact of Regulating IMP in Type II Neuroblasts”

*Collegiate Research Scholar*

**Michael Poling**

“Moral Motivation and Causality in Spinoza and Kant”  
*Count Lorenzo Attolico di Adelfia Research Scholar*

**Yichen Qian**

“Donsker's Theorem and its Simple Applications”  
*Joel and Shari Beckman Research Scholar*

**Lanxuan Qiao**

“Cross-Cultural Differences in Perception of Facial Attractiveness”  
*Collegiate Research Scholar*

**Brenda Qiu**

“The relation between the size of hV4 and visual crowding”  
*Collegiate Research Scholar*

**Roshni Raj**

“The effects of adverse rearing on the infant brain’s amygdala over a developmental time course.”  
*Collegiate Research Scholar*

**Harshita Ramchandani**

“Understanding the Structure of the Microsporidian Polar Tube using Cryo-Electron Tomography and 3-D Reconstructed Models”  
*Collegiate Research Scholar*

**Harlan Reiss**

“Gentrification-caused displacement: What can be done?”  
*Kringstein Family Research Scholar*

**Liza Reizis**

“Understanding the Negative Impact of Obesity During COVID-19 Infection”  
*Collegiate Research Scholar*

**Emily Ren**

“Blurring the boundary of the binary female social characters: the mother-and-child motif in the woodblock prints in Edo Japan”  
*Susumu Okamura Research Scholar*

**Rebecca Ronnen**

“Understanding the Relationship Between Tumor-cell Autonomous Calcium Waves, Calcium-Calmodulin Dependent Kinase II (CAMKII), and Downstream Substrates of CAMKII in Patient-derived Glioblastoma Cells”  
*Mortimer J Natkins Memorial Research Scholar*

**Karlee Rowland-Paz**

“Spatial and temporal expression of innexins in the developing fly visual system”

*Collegiate Research Scholar*

**Joe Rueb**

“Self-Assembly of 3D DNA Polygons”

*Collegiate Research Scholar*

**Gaia Rueda Moreno, Hannah Owen**

“dispersal, morphology of the spotted lanternfly, and the impact of public opinion in an urban context”

*Collegiate Research Scholar*

**Nadia Sadri**

“Exploring Chromatin Accessibility Following Condensin DC Recruitment to Active Genes”

*Collegiate Research Scholar*

**Fabiola Sanabria**

“Efficiency of Carbon Taxes: Denmark as a Case Study”

*Frances and Benjamin Benenson Research Scholar*

**Jaiden Sanchez**

“Indigenous Feminism”

*Collegiate Research Scholar*

**Brandon Sato**

“Simulating Microgravity for Live Human Cells Using A Random Positioning Machine”

*Collegiate Research Scholar*

**Carson Schultz**

“Influence of A1 Aggregated Astrocyte State on Translation Levels in Memory Loss Diseases”

*Samuel E.Q. Ashley Research Scholar*

**Paige Septak**

“Investigating the Neural Activation Associated with Emotional Reaction to Extreme Inequality”

*Collegiate Research Scholar*

**Siyang Shen**

“Does adolescents’ gender predict their mental representation of the leader role?”

*Collegiate Research Scholar*



**Leon Shen**

“Linear recurrences of order at most two in nontrivial small divisors and large divisors and its generalization to number fields”

*Collegiate Research Scholar*

**Nancy Shi**

“Elucidating the Role of the Nuclear Envelope in the Nucleocytoplasmic Transport”

*Collegiate Research Scholar*

**Nathalie Shoji**

“Development of Cell-Type-Specific Split-GAL4 Lines to Characterize Novel Neuronal Cell Types in the Drosophila Visual System”

*Max and Cecil (Steuer) Chesin Research Scholarship in the Life Sciences*

**Hannah Siegel**

“Gender and Jewish Religious Garments”

*Ellie and David Werber Research Scholar in Social Sciences*

**Adelina Simpson**

“Look over there! Social class predicts social (but not nonsocial) cue following”

*Collegiate Research Scholar*

**Danie Sivertsen**

“Bypassing Sticky-Ends: Programming 3D DNA Crystals Using Pi-Stacking Interactions”

*Collegiate Research Scholar*

**Aaron Slack**

No title provided

*Collegiate Research Scholar*

**Hannah Smith**

“A physiologically-compatible paradigm for acute stress in OCAM studies.”

*Collegiate Research Scholar*

**Mennah Soliman**

“The Interaction of Spatial and Temporal Gene Regulatory Programs in Neural Development”

*Herman Berkman Undergraduate Research Scholar*

**Muhammad Soliman**

“Comparison of Gene Expression and Immunostimulatory Profiles between Class B and Class C CpG ODN Treatment in Geriatric Squirrel Monkeys”

*Collegiate Research Scholar*

**Yvette Somersel**

“Elucidating the role cis-regulatory elements play in activity-regulated transcriptional programs”

*Collegiate Research Scholar*

**Anthony Sukotjo**

“Do mayoral candidates moderate their political ideology for the general election?”

*Collegiate Research Scholar*

**Pallavi Sundaram**

“Heat Responsive Organic Semiconductor/Polymer Blend for Emerging Optoelectronics”

*Dr. Milton Goldstein, DDS, Research Scholar*

**Ryan Tao**

“Resolving Structural and Social Injustice of the Jacob Riis Houses”

*Collegiate Research Scholar*

**Aidan Taylor**

“Desegregation Busing in St. Louis: what the end of the program means for the city”

*Joseph Jerome Research Scholar*

**Yashita Thota**

No title provided

*Collegiate Research Scholar*

**Ilene Tisnovsky, Candace Patrick, Rachel Wu, Tara Cooney**

“Bridging the Gap: Developing a Meta-Disciplinary Map to Ease Writing Anxiety”

*Collegiate Research Scholar*

**Eugene Toth**

“Rational Design of an E6AP mimic to target HPV16E6”

*Collegiate Research Scholar*

**Kimberly Union**

“Retrieval of Soil Organic Carbon from Hyperspectral Imagery”

*Joseph Gilbride Research Scholar*

**Alejandra Urquieta**

“The role of the hippocampus in maternal suppression of infant fear”

*Collegiate Research Scholar*

**Ethan Vainrib**

“A Comprehensive Analysis of Beach Contamination along an Urban-Rural Gradient on the South Shore of Long Island”

*Collegiate Research Scholar*

**Sai Vendidandi**

“Effects of AC Stimulation on the Cerebellum”

*Collegiate Research Scholar*

**Bryanna Vilnaigre**

“Investigating the Functional Role and the Molecular Identity of Foxp2+ cells in the Bed Nucleus of the Stria Terminalis in Male Mice”

*Collegiate Research Scholar*

**Kelvin Vuong**

“Detection of Intracellular NADH via a Fluorescent/Raman Dual-Modality Probe”

*Wilfred L. and Ruth S.F. Peltz Research Scholar*

**Renee Wang**

“Proposer Uncertainty and Competition in Bargaining”

*Dr. Evan and Brooke Kaye Research Scholar*

**Ruolin Wang**

“Comparative Studies of the Qin and Ming Great Walls in Eastern China”

*Washington Square College Class of '42 Research Scholar in Humanities*

**Austin Wang**

“Classifying two groups of epilepsy patients who are effective and ineffective to medical treatment, by training a Support Vector Machine based on their Electroencephalography signal.”

*Collegiate Research Scholar*

**Tricia Wang**

“Platelets and Macrophage Memory”

*Collegiate Research Scholar*

**Elliott Wenzel**

“The Libelli de Lite and the Conceptions of Rulership during the Investiture Conflict”

*Holten Family Research Scholar*

**Hunter Whitbeck**

“The Effects of Aging on Telomere Dynamics in the Jumping Ant, *Harpegnathos saltator*”

*Sorrell and Lorraine Chesin Research Scholarship in the Life Sciences*

**Kyle Whitt**

“Designing an Activity Index for New York City”

*The New York Community Trust Murray Hidary Research Scholar*

**Abby Williams**

“Detecting Horizon-Scale Gradients in Large-Scale Structure”

*Stan Brettschneider Research Scholar Award in the Sciences*

**Ambria Williams**

“Law, Science Fiction, and Biomedical Technology: Utilizing design fiction to develop policy frameworks for medical robots”

*Collegiate Research Scholar*

**Abby Wilson**

“Therapeutic, justice-centered tattooing: Exploring ancestral roots and emphasizing client needs through a new wave of tattoo artistry”

*Collegiate Research Scholar*

**Leila Winn**

“The Effect of Helicopter Noise Pollution on Birds on Governors Island”

*Collegiate Research Scholar*

**Andrew Witty**

“Exploration of a Zinc based substitute for Silver Diamine Fluoride in the treatment of Dental Caries.”

*Collegiate Research Scholar*

**Taylor Xie**

“Speed discrimination in the parafoveal and peripheral visual field”

*Collegiate Research Scholar*

**Angel Xing**

“The Intersection Between Social Norms and Beliefs in the Context of Climate Change”

*Collegiate Research Scholar*

**Olivia Xu**

“Visual encoding as a sensitive measure of attentional impairment and gaze preferences in epilepsy”

*James A Shea Research Scholar*

**Weiran Xu, Yizhuo Liang, Yizhuo Liang**

“Assertions for Distributed Applications: Detect and Respond to Bugs at Runtime”

*Collegiate Research Scholar*

**Angelina Xu**

“Effects of plasticity in a circadian context in *Drosophila*”

*Collegiate Research Scholar*

**Albert Yan, Ruizhe Li,**

“Application of Machine Learning in Food Price and Quality: A Case Study of Spanish Wine”

*Collegiate Research Scholar*

**Candice Yao**

“What Does an Event Do to Another: A Study of the Discursive Intersection of Climate Change and the Russia-Ukraine War”

*Collegiate Research Scholar*

**Tianle Ye**

“Change in Young Adult Believers' Faith in Christianity in the Context of the COVID-19 Pandemic”

*Collegiate Research Scholar*

**Mayee Yeh**

“Queering Singular They and the Influences of Acoustic Characteristics on Grammatical Acceptability”

*Collegiate Research Scholar*

**Astra Yu**

“The effect of phosphomimetic eIF2 $\alpha$  on protein synthesis and tau phosphorylation”

*Collegiate Research Scholar*

**Jiarui Zhang**

“Industries Sensitivity to Bank Entry and Credit Provision Variance: Evidence from the National Banking Era”

*Jurate Kazickas Research Scholar*

**Ya Shi Zhang**

“Amortized Analysis of a Generalized Framework for Recursive Range Functions”

*Collegiate Research Scholar*

**Yueqing (Selena) Zhang, Yuqian Zhang, Yiling Ding**

“Follow-up of Pediatric Dental Patients Who Participated in the Randomized Clinical Trial on the Effectiveness of Silver Diamine Fluoride”

*Collegiate Research Scholar*

**Yuqian Zhang**

“The Three-Vortex Problem”

*Collegiate Research Scholar*

**Yuan Zhang**

“This project investigates the low frequency variability in the atmosphere to assess weather fluctuations on a time scale of 10 to 30 days and to understand their relation to the Earth’s energy budget.”

*Collegiate Research Scholar*

**Ya Shi Zhang**

“Reduction of Assumptions for the Existence of Non-Interactive Zero-Knowledge Proofs for NP Languages”

*Collegiate Research Scholar*

**Stephen Zhang**

“Hierarchical Efficient Transformer Over Long Clinical Notes Assisting and Improving Automatic Medical Coding”

*Collegiate Research Scholar*

**Ya Shi Zhang**

“Presence of Neural Collapse of a Neural Network under Adversarial Training”

*Collegiate Research Scholar*

**Hongyi Zheng**

“No title provided”

*Collegiate Research Scholar*

**Tom Zhou, Liam Walsh, Xan Carey**

“Investigating the temporal fine structure of music appraisals as a function of auditory features and personality”

*Collegiate Research Scholar*

**Lisa Zhu**

“Preferential looking at own-race versus other-race faces across infancy”

*Collegiate Research Scholar*

## **Spring 2023**

### **Elizabeth Abraham**

“Decoding the Role of HIF-1 $\alpha$  in Staphylococcus Aureus Skin Infection”

*Collegiate Research Scholar*

### **Ali Alshehhi**

“Real Estate Price Predictions using Alternative Data Sources”

*Collegiate Research Scholar*

### **Kaja Andric**

“On the Cultural War in the Wake of the ex-Yugoslav Conflict”

*Collegiate Research Scholar*

### **Nick Ankuta**

“Disambiguating Computational Learning Models on an Auditory Sequence Prediction Task”

*Collegiate Research Scholar*

### **Jiayi Bai, Paris Hong**

“The relationship between private health insurance coverage and economics growth among the U.S. states”

*Collegiate Research Scholar*

### **Bardan Bhatta**

“The Role of Fibroadipogenic Progenitors in Homeostatic Maintenance, Regeneration, and Atypical Tissue Formation in Skeletal Muscle”

*Collegiate Research Scholar*

### **Maureen Brusco**

“Aryl Diazonium Derivatives as Radical Generators and Their Affinity for DNA Cleavage”

*Collegiate Research Scholar*

### **Andrea Cardiel**

“The Fight Against Forgetting: Investigating the Impact of APOE Genotype on pTau Metabolism in Sporadic Alzheimer's Disease”

*Collegiate Research Scholar*

### **Austin Celestin**

“Community Boards: An Essential Piece of the Land Use Process or Democracy's Greatest Paradox?”

*Collegiate Research Scholar*

**Charan Chansrichawla**

“Expanding the substrate promiscuity of the enzyme FKP.”

*Collegiate Research Scholar*

**Akshat Chavan Patil**

“DeepTech Ecosystem Research”

*Collegiate Research Scholar*

**Robert Chen, Robert Chen, Kevin Li, Yilu Pan, Yixin Wang**

“Random Partial Trace Estimation”

*Robert Selander Research Scholar.*

**Ethan Chen**

“Named Entity Recognition for Classification of Wikidata Properties”

*Collegiate Research Scholar*

**Harry Chen**

“A Comparative Analysis of Machine Learning Algorithms for Equity Pricing based on Factor Models”

*Collegiate Research Scholar*

**Carrie Chen**

“Effect of Single-Residue Mutations on CTCF Binding to DNA: Insights from Molecular Dynamics Simulations”

*Collegiate Research Scholar*

**Evan Cheng**

“Behavioral symptoms of Alzheimer's Disease progression in border-associated macrophage-depleted mice”

*Collegiate Research Scholar*

**Diya Cherian**

“Modulation of SARS-CoV-2 Nsp13 helicase activity using allosteric ligands”

*Collegiate Research Scholar*

**Olivia Cho**

“MRI Monitoring of Amyloid Pathology in New World Primate Model”

*Collegiate Research Scholar*

**Olivia Choi**

“The functional landscape of essential long noncoding RNAs in human cells”

*Marie and Anthony Rao Research Scholar.*



**Jordan Chong, Jack Logan**

“What Do Our Students Want: A Data Driven Tool to Promote University Wellbeing”

*Collegiate Research Scholar*

**Aria Chowdhury**

“Uncovering the impact of gender-based victimization and moral conviction against gender equality on the rise of hostile sexism”

*Collegiate Research Scholar*

**Steve Ciervo**

“Using predictive analytics to understand how genes interact in Dementia”

*Collegiate Research Scholar*

**Armon Dadvand**

“Framing Effects on Gender Disparities in Political Leadership”

*Collegiate Research Scholar*

**Armon Dadvand**

“Deradicalizing Incels by Fostering Empathic Malleability”

*Collegiate Research Scholar*

**Yinlong Dai**

“Developing a Physics Simulation for Omentectomy Surgery: Modeling the Interaction between Deformable Omentum and Rigid Organs”

*Collegiate Research Scholar*

**Anoushka Dalvi**

“Assessing the Role of Condensin II in the Establishment and Maintenance of Extrusion Loops in Hermaphrodite *C. elegans*”

*Collegiate Research Scholar*

**Ethan Delgado**

“Green Programming Languages: The Key to Carbon Friendly Artificial Intelligence.”

*Collegiate Research Scholar*

**Anthony Dender**

“Review and Analysis of Choice of Topology in the Particle Swarm Optimization Algorithm”

*Collegiate Research Scholar*

**Ruiqi Deng, Avery Hang**

“Multi-task benchmark for evaluating language model’s performance on clinical measurements”

*Collegiate Research Scholar*

**Andre Dubovskiy**

“Using a Field Programmable Gate Array (FPGA) to Measure the Randomness of Spin-Transfer Torque Magnetic Random Access Memory (STT MRAM)”

*Collegiate Research Scholar*

**Mohamed Eleish**

“Sports & Gender Project: The goal of this project is to discover what lies behind the distribution of boys and girls in high school sports.”

*Collegiate Research Scholar*

**Yagiz Erdogan**

“An American Eclecticism in Constantinople: Charles H. Rutan's American College for Girls”

*Pudding Hill Research Scholar.*

**Delaney Espinoza**

“Under different starvation conditions, what is the threshold of nutrient level that is viable for cancer cells.”

*Collegiate Research Scholar*

**Iris Fagniez**

“Search for a new receptor of human PDL-1 and PDL-2”

*Collegiate Research Scholar*

**Ivri Faitelson**

“a proposal to obtain computational resources for a biological machine learning project”

*Collegiate Research Scholar*

**Catherine Fan**

“Uncovering the Projection of Dopamine Receptors within the Posterior Dorsal Striatum”

*Collegiate Research Scholar*

**Camila Fang**

“Identity of Early-Stage Metastatic Tumors in the Lymph Node”

*Collegiate Research Scholar*

**Safa Fazili**

“The Effects of a Language Barrier on Patient Reported Health Outcomes Post Surgery”

*Collegiate Research Scholar*

**Matthew Feingold**

“Health Justice Network of New York City”

*Tory Dent Research Scholar.*

**Serena Fu**

“Examining the effects of children's environments on their beliefs about who is a typical person”

*Collegiate Research Scholar*

**Runji (Randy) Gao, Ke Fang**

“Social Norms and Partisan Framing: Bridging the Climate Change Belief Gap”

*Collegiate Research Scholar*

**Carla Garcia Medina**

“Open-Loop Reward Retrieval: Mining Reward Functions from Joint Latent Spaces”

*Collegiate Research Scholar*

**sofi Gonzalez**

“Cultural identity may play a role in bilingual language processing”

*Collegiate Research Scholar*

**Aryan Govil**

“Framework for Mind-controlled wheelchair for ALS patients, Using Brain Computer Interface and EEG Technology”

*Collegiate Research Scholar*

**Jeffrey Guan**

“Geospatial Analysis of Food Deserts and Socioeconomic Health Disparities on Low Income Urban Communities for Targeted Allocation of Federal Funding for Nutritional Risk”

*Collegiate Research Scholar*

**Michael Guerrero**

“What does a leader look like to teens?”

*Collegiate Research Scholar*

**Sukthi Gunda**

“Is the Rho GEF Pura a required protein for retraction in circadian clock neurons?”

*Collegiate Research Scholar*

**Linya Guo**

“Chemokine receptor requirements for T cell exit from the skin”

*Collegiate Research Scholar*

**Sachita Gupta**

“Obstructive Sleep Apnea Treatment as a Possible Preventive Method for White Matter Hyperintensities”

*Peggy and Bernard Sakin Research Scholar.*

**Aria Han**

“Exploring the nonlinear dynamics of coupled neuronal networks based on the FitzHugh-Nagumo model”

*Collegiate Research Scholar*

**Jeremy Haviv**

“The border between Money and Comfort”

*Collegiate Research Scholar*

**Katherine Hightower**

“Identifying Defects in Electrospun Perovskite Nanofibers Using Electronically Detected Magnetic Resonance”

*Collegiate Research Scholar*

**Ainsley Hoh**

“Targeted Marketing Using Influencers: Implications on Minority Adolescents' Dietary Choices and Visual Attention”

*Collegiate Research Scholar*

**Amitra Hoq**

“SARS-CoV-2 Decoy Receptors”

*Collegiate Research Scholar*

**Xianyang (Eric) Hu**

“One-dimensional Vector Quantile Regression vs. Classical Quantile Regression”

*Swartz Family Research Scholar.*

**Ashley Huang**

“Humans and Waste: Forging a Connection with the Assistance of AI”

*Collegiate Research Scholar*

**Yingrong Huang**

“Analyzing whether inequalities in maternal health could be decreased through service delivery of prenatal health programs in under-resourced areas of China and the U.S.”

*Collegiate Research Scholar*

**Stephanie Huang**

“Spatiotemporal Development of Sensory Neurons for Vertical Gaze-Stabilization in the Larval Zebrafish”

*Collegiate Research Scholar*

**Caroline Huber**

“Factors and Analysis of Women’s Wellness in the United States”

*Collegiate Research Scholar*

**Priscilla Hunnewell**

“Gertrud: A Biography”

*Tory Dent Research Scholar*

**Ahmed Hussein**

“Investigating Gender Disparities in Sports from Childhood to Adulthood”

*Varet Family Research Scholar*

**Chuanyang Jin**

“Fast Diffusion Transformers”

*Collegiate Research Scholar*

**Nellie Jun**

“Analyzing AI-Generated Depictions of LSD-Induced Hallucinations: Can We Use AI to Visualize Human Altered States of Consciousness?”

*Collegiate Research Scholar*

**Jasmeen Kaur**

“The Impact of AI on the Job Market”

*Richard Robins Entrepreneurial Research Scholar*

**Diana Kazarian**

“Defining the Nagorno-Karabakh Conflict: A Survey Study and Oral History in Armenia”

*Collegiate Research Scholar*

**Cheng Yang Emos Ker, Dongjoo Lee, Zander Chen**

“Big Data Analysis: Using Social Media and Online Data to find the popularity of Election candidates”

*Collegiate Research Scholar*

**Yunika Khamcha Magar**

“Determining the Role of Cell-Cell Adhesion in Neuromast Disposition”

*Collegiate Research Scholar*

**Sara Khan**

“To What Extent Does the Increased Presence of MNCs in India Affect Sentiments of Liberalization and Decrease the Gender Wage Gap?”

*Philip Alfred Lotz Research Scholar.*

**Shin Kim**

“Confined Crystallization of Tetrathiafulvalene in Polydimethylsiloxane Molds”

*Sidney Probst Research Scholar.*

**Hakyoung Kim**

“Evaluating the Efficacy and Safety of CpG ODN in Squirrel Monkeys with Cerebral Amyloid Angiopathy (CAA) via Immunohistochemistry.”

*Collegiate Research Scholar*

**Kirill Kiselev**

“The neural mechanism of semantic knowledge generalization in rodents”

*Drs. Aaron A. and Francine M. Stein Family Research Scholar.*

**Kirill Kiselev**

“Misplaced Certainty Relates to Simplistic Preferences and Evaluations”

*Miller Family Research Scholar.*

**Amalia Korniyenko, Ghina Al Shdaifat**

“Investigating the Relationship Between Psychopathic Traits and Sexual Behavior”

*Collegiate Research Scholar*

**Jayna Kramsky**

“Applied Innovative Methods to Prevent Child Maltreatment Lab”

*Howard M. Weisberg Family Research Scholar.*

**Anand Kumar**

“Vikramshila Central University Project: Land Acquisition, Gentrification Control and Mitigation Plan”

*Collegiate Research Scholar*

**Shubhdip Kundlas**

“FOLLOW ME FRIENDS”

*Collegiate Research Scholar*

**Nick Labranche**

“Comments on the two String Amplitude”

*Collegiate Research Scholar*

**Julissa Laignelet**

“Breaking the Accent Barrier: Optimizing Open Source Accented Speech Recognition Systems for Spanish-Speaking Users in English”

*Collegiate Research Scholar*

**Hannah Mia Lauricella**

“GPA- 3.783; The Latino Migration Story- International Cinema’s Questioning of the Attainability of the American Dream.”

*Collegiate Research Scholar*

**Anh-Thu Le**

“The Role of Extra TFIIC Sites in the Fidelity of Chromosome Segregation”

*Collegiate Research Scholar*

**Samuel Jinho Lee**

No title given

*Collegiate Research Scholar*

**Yuna Lee**

“Social Status and Its Impact on Cross-Interaction Conversations”

*Collegiate Research Scholar*

**Bryce Lexow**

“The Association between Visual Attention and Motivational Mindset Processes among runners”

*Collegiate Research Scholar*

**Chengji Li**

No title given

*Collegiate Research Scholar*

**Alex Li**

“Growth and Pollution - Rise and Fall”

*Collegiate Research Scholar*

**April Li**

“Generating MiMIC/CRIMIC-split-GAL4 genetic drivers via in vivo crosses”

*Collegiate Research Scholar*

**Christina Lian**

“Upcycling and Depolymerization of Polymethyl Methacrylate”

*Collegiate Research Scholar*

**Sally Liang**

“Mechanical Exfoliation of h-BN as dielectric in Josephson junction Fabrication”

*Collegiate Research Scholar*

**Renee Liang**

“Protein Analysis and RNA localization in the Drosophila Optic Lobe”

*Collegiate Research Scholar*

**Serena Liu**

“OurChild: A Health IT Solution to Reduce Minority Health Disparities”

*Joseph A. Rice Research Scholar.*

**Frank Liu, Frank Liu, Nicholas Wang**

“An investigation into the effect of nucleotide protein binding markers on the mechanisms of RNA splicing”

*Collegiate Research Scholar*

**Josephine Liu**

“Inhibition of key collagen receptors through CRISPR-cas9 restrains cell co-attraction”

*Collegiate Research Scholar*

**Leo Liu**

“Online representational life-long learning”

*Collegiate Research Scholar*

**Xiaoteng (Frank) Liu, Xiyu Hao**

“Improving ML-based Scheduling for Distributed Systems: Overcoming Data Collection and Online Adjustment Challenges”

*Collegiate Research Scholar*

**Idalys Lozano**

“Patterning Twisted Crystals of Organic Semiconductors”

*Collegiate Research Scholar*

**Jie Lu**

“The Effect of Race on the Awareness of Gender Status Differences”

*Joan C. Suttles Estate Research Scholar.*

**AJ Luesebrink**

“Assistance in neurobiosensor research in the Tal Laviv Lab in Tel Aviv”

*Collegiate Research Scholar*

**Angela Ma**

No title given

*Arthur L. Wolf Research Scholar*

**Willis Ma**

“Text to image generation with Diffusion Transformers”

*Collegiate Research Scholar*

**Oliver Madilian**

“Modeling Collective Cell Migration in Ciona During Early Development”

*Collegiate Research Scholar*



**Yatin Mankan**

“Identifying Candidates to Modulate MYC Protein Levels and MYC-Driven Transcription”  
*Collegiate Research Scholar*

**Aaqib Mansoor**

“Famous Faces Assignment: Assessment of Natural Language Processing”  
*Collegiate Research Scholar*

**Jesiah Matthews**

“Ghanaian Diaspora Entrepreneurship in Ghana”  
*Collegiate Research Scholar*

**Edward Nah**

“A Meta-Analysis of Body Weight Loss Calculation Methods”  
*Collegiate Research Scholar*

**Tucker Neal**

“Antiviral Peptoids: A Novel Approach to Preventing and Treating Enveloped Viruses Through Mechanisms of Membrane Disruption.”  
*Collegiate Research Scholar*

**Thao Nguyen**

“Fitness cost of genes responsible for antibiotic resistance”  
*Collegiate Research Scholar*

**Taha Niazi**

“Identify the signaling mechanisms that mediate cancer-associated cachexia in Lkb1-mutant lung cancer upon consumption of high dietary fat.”  
*Collegiate Research Scholar*

**Tarek Noiem**

“The feasibility of a rugged universal text focused fact checking system to fight against misinformation online.”  
*Collegiate Research Scholar*

**Saiesha Nooguru**

“Exosomal mechanism to stimulating complete wound healing in diabetic mice.”  
*Collegiate Research Scholar*

**Katherine Norton**

“A bacterial genetic screen to identify how diet regulates *C. elegans* germline stem cells”  
*Collegiate Research Scholar*

**Esofi Nunyi**

“Experiences of College -Age Students in the transition from pediatric to adult care”  
*Collegiate Research Scholar*

**Mila O'Malley**

“Investigating the JAK-STAT signaling pathway as a cause for ischemic down-regulation of MHC-1, despite IFN $\gamma$  presence.”  
*Collegiate Research Scholar*

**Haley Ogbemudia**

“Investigating the time perception in a fragile X rat model”  
*Collegiate Research Scholar*

**Aashay Pai**

“Probing Active Galactic Nuclei in the mid-infrared band using the MaNGA and Spitzer catalogues”  
*Collegiate Research Scholar*

**Hengkai Pan, Hengkai Pan, Zijin Hu**

“Enhanced Medical Image Captioning Using Bidirectional Transformer Models for Superior Diagnostic Interpretation”  
*Collegiate Research Scholar*

**Saatwik Panigrahi**

“Using Artificial Intelligence to Predict Undernourishment”  
*Collegiate Research Scholar*

**Yash Patel**

“The Intersection Between Social Norms and Beliefs in the Context of Climate Change”  
*Collegiate Research Scholar*

**Shlok Patel**

“Measuring the Effects of an Insulin-Like Growth Factor Analogue on a Angelman Syndrome Model in Mice.”  
*Collegiate Research Scholar*

**Shrey Patel**

“Assessing the Microbiome of the NYC Transit System”  
*Collegiate Research Scholar*

**Keyur Patel**

“Identifying targets of Hr38 transcription factor using RNA seq to look at the expansion of sLN $\nu$  circadian clock neurons in *Drosophila* fruitflies.”  
*Collegiate Research Scholar*

**Cameryn Peknik**

“DNA Damage and Carcinogenicity: Comparative Study of Electronic Cigarette Aerosol and Tetrahydrocannabinol (THC) Cartridge Aerosol”

*Collegiate Research Scholar*

**Josh Petit**

“The Narrative and Structural Connections Between Mrs. Dalloway, Ulysses, and the Hours”

*Thomas Kane Research Scholar in English.*

**Katerina Petroff**

“Effects of Mesenchymal Stromal Cells on Mouse Phenotype”

*Collegiate Research Scholar*

**Savannah Prager**

“Goal Attribution in Human Infants and Machines”

*Collegiate Research Scholar*

**Matt Pranaitis**

“Overview of cross-laminated timber and the reasons that hinder its becoming the new standard in the construction industry”

*Larry and Klara Silverstein Research Scholar.*

**Gabriella Radice**

“Adolescent Pregnancy in Buenos Aires and New York City: a cross cultural comparison”

*Mary L. Santirocco Research Scholar.*

**Christine Ren**

“Providing Cultural Matches: Social Class as a Predictor of Performance in Perspective Taking and Complex Social Reasoning”

*Collegiate Research Scholar*

**Dylan Rhodes**

“A Dedicated Neuronal Population Underlying Alloparental Behavior”

*Collegiate Research Scholar*

**Tenzin Rinkartsang**

“The role of cardiolipin in neonatal cardiomyocyte maturation in protein and phospholipid turnover”

*Collegiate Research Scholar*

**James Robles**

“The Dual Impact of the Gig Economy on Workers' Rights and Immigrants' Rights in New York City”

*Collegiate Research Scholar*

**Amilleah Rodriguez**

“Non-local conceptual combination in Large Language Models”

*Collegiate Research Scholar*

**Rebecca Ronnen**

“Understanding the Relationship Between Tumor-cell Autonomous Calcium Waves, Calcium-Calmodulin Dependent Kinase II (CAMKII), and Downstream Substrates of CAMKII in Patient-derived Glioblastoma”

*Collegiate Research Scholar*

**Justin Rosario**

“Does human aldose reductase (AR) facilitate senescence in H9C2 cells?”

*Collegiate Research Scholar*

**Joe Rueb**

“Expansion and Contraction of Self-Assembled 3D DNA Crystals”

*Collegiate Research Scholar*

**Gaia Rueda Moreno**

“Characterizing Novel Urban Riparian Ecosystems: a case study of The Hudson river”

*Collegiate Research Scholar*

**Cheryn Ryoo**

“An Examination of Decision Makers' Deference to Machine-Generated Responses given Reported Confidence”

*Daniel A. and Amy L. Rock Research Scholar.*

**Rida Saad**

“The impact of language on how infants understand object-directed gaze”

*Collegiate Research Scholar*

**Sana Sajjad**

“Can Artificial Intelligence Help Flag Fake News? Towards an Experimental Predictive Analytics Tool to Help Detect Misinformation in News Articles”

*Collegiate Research Scholar*

**Jada Sampson**

“Enantiopure end functionalized helical polymers”

*Nicole and Joseph Meyer Research Scholar.*

**Sevastian Sanchez, Inti Robinson Campbell**

“An Investigation of Air Quality Inequities Across Mixed Modes and Routes of Public Transportation in New York City”  
*Horace Wendorf Research Scholar.*

**Benjamin Sapozhnikov**

“The Potential Paired Future of Decentralized Autonomous Organizations and Environmental, Social, and Governance Frameworks”  
*Collegiate Research Scholar*

**Stuti Saria**

“A Dynamic Discrete Choice Model to Estimate the Likelihood of Consumers Upgrading their PV Systems”  
*Dr. Aston McLaughlin Research Scholar.*

**Ben Schmelmer**

“Scaffold-directed crystallization of solution-processable metal halide perovskites for optoelectronics.”  
*Collegiate Research Scholar*

**Paige Septak**

“I know how you feel: Lower social class advantages in decoding subtle nonverbal expressions”  
*Collegiate Research Scholar*

**Aleksa Shinaberry**

“Uncovering the effects of resource heterogeneity on *Caenorhabditis* species coexistence”  
*Collegiate Research Scholar*

**Adelina Simpson**

“Let's stick together: Differences in social network structure contribute to social class cultural differences”  
*Collegiate Research Scholar*

**Preeha Sohail**

“Investigating opioid use prediction rates and dosage requirements through a neuroeconomic framework”  
*William J. McKeon Research Scholar.*

**Muhammad Soliman**

“Longitudinal Evaluation of Gene Expression Immunostimulatory Profiles and Plasma Biomarker Profiles Following Chronic Treatment with Class C CpG ODN”  
*Collegiate Research Scholar*

**William Steger**

“An Analysis of the Faunal Pleistocene Assemblage of the Cueva Negra, Spain Dating to ~850,000 Years Before Present”

*Collegiate Research Scholar*

**Yuming Tan**

“Empowering Diverse Adolescent Leaders: An Interactive Workshop Approach to Promote Growth Mindsets, Belongingness, and Challenge Stereotypes In Leadership.”

*Collegiate Research Scholar*

**Maosen Tang**

“Stylized Animation using Freeform Vector Graphics with Controlled Thin-plate Splines”

*Collegiate Research Scholar*

**Ardi Tayebi**

“Caught Between East and West: An Analysis of the Differential Treatment of Ukrainian Refugees and Other Migrants in Italy”

*Collegiate Research Scholar*

**Sukruthi Thunga**

“Investing Barriers to Usage of Primary Care Services Among College Students”

*Kurt M. Mislow Research Encouragement Scholar.*

**Zaskia Torres**

“Colombia’s False Positives Scandal: Gestures, Representation, and Testimonies”

*Collegiate Research Scholar*

**Thomas Traub**

No title given

*Collegiate Research Scholar*

**Alexis Tretschok**

“The Metropolitan Museum’s Cesnola Collection: Cypriot Art between East and West”

*William F. Weld Research Scholar in Ancient Studies.*

**Alex Tschinkel**

“A Further Exploration into the Synthesis and Separation of Patchy Particles”

*Collegiate Research Scholar*

**Maimunah Virk**

“Localization of ARC and LC3B in IA trained vs untrained rat hippocampus”

*Collegiate Research Scholar*

**Kelvin Vuong**

“Detection of Intracellular NADH via a Fluorescent/Raman Dual-Modality Probe”

*Collegiate Research Scholar*

**Katie Wang**

“Towards Understanding the Molecular Basis of Fragile X Syndrome”

*Collegiate Research Scholar*

**Tricia Wang**

“Platelets and Macrophage Memory”

*Collegiate Research Scholar*

**Jesse Wang**

“Long non-coding RNA regulated gene expression in atherosclerosis and inflammatory response”

*Collegiate Research Scholar*

**Grace Wang**

“Evaluating the Performance of Machine Translation Metrics on Different Languages”

*Collegiate Research Scholar*

**Charles Wang, Nicholas Cornick**

“to what extent does the social media data provide a reflection of the public’s opinions and the sentiments regarding political candidates and their level of popularity in the US presidential election.”

*Collegiate Research Scholar*

**Lisa Wang**

“A Horizontal Evaluation of Performances of Phrase-Based, Statistical, Hybrid, and Neural Machine Translation Models in Implicit Discourse Relation Classification”

*Collegiate Research Scholar*

**Anna Wang**

“Recessions and American Drug Use”

*Collegiate Research Scholar*

**Tanwi Wangikar**

“Examining Transformations”

*Schachter Family Research Scholar.*

**Anthony Widjaja**

“Uncovering the function of the Start-Stop in the 5' UTR of SMCR8”

*Collegiate Research Scholar*

**Angel Wu, Yue You**

“A study on the isoperimetric problem: graphs and singular surfaces”

*Collegiate Research Scholar*

**Jinli Xiao**

“A study of distributed matrix multiplication used for large DNN model training”

*Collegiate Research Scholar*

**Angel Xing**

“Overestimating Group Norms: The Impact of Online Extremist Speech on Polarization”

*Collegiate Research Scholar*

**Olivia Xu**

“Visual encoding as a sensitive measure of attentional impairment and gaze preferences in epilepsy”

*Collegiate Research Scholar*

**Ken Yan**

“A Refined One-Dimensional Vehicular Traffic PDE Model Based on Object Detection Algorithms and Regression Analysis”

*Collegiate Research Scholar*

**Zihao Yang**

“The impact of multitask learning and correlations between coding systems on imbalanced ICD9 code classification”

*George Maker Research Scholar.*

**Kris Yang**

“Humor, Stand-up comedy, and feminist activism in contemporary China”

*Lydia R. Reeve Research Scholar.*

**Shuting Yang**

“Emotion Regulation, Self Control, and Construal Level”

*Varet Family Research Scholar.*

**Julia Yi**

“Effect of exposure to counterstereotypical exemplar on African American adolescents’ mental representation of leadership roles”

*Collegiate Research Scholar*

**Hang Yin, Gefei Gong, Wenjing Pang**

“Exploring Homogenization in Vocaloid Music using Machine Learning and Feature Extraction”

*J.S. Sinclair Research Scholar.*



**Zhen Yu**

“In The City: Interrogating American Magic Realism”

*Collegiate Research Scholar*

**Katerina Zakonova, Candace Patrick, Rachel Wu, Michaella Blemur, Charlotte Swenson**

“Bridging the Gap: Developing a Meta-Disciplinary Map to Ease Writing Anxiety”

*Collegiate Research Scholar*

**Helen Zardus**

“A Dangerous Runner’s High: The psychological complications of the dawn of exercise-based social media platforms”

*Collegiate Research Scholar*

**Aria Zhang**

“Thermal Tolerance Adaptations of Spotted Lanternflies *Lycorma delicatula* to different climates of New York and Shanghai”

*Julie C. Schiefflin Research Scholar.*

**Sarah Zhang**

“Synthesis development and characterization of surface strain interactions in BaTiO<sub>3</sub> ferroelectric nanoparticles”

*Rose and Barry McMerney Research Scholar.*

**Vincent Zhang**

No title provided

*Collegiate Research Scholar*

**Jiawei Zhang, Silyu heng, Jiawei Zhang**

“A Post-prediction Inference Framework for Design-based Causal Inference with Missing Outcomes”

*Collegiate Research Scholar*

**Yuqian Zhang**

“Impacts of COVID on wine’s retail profit margins”

*Collegiate Research Scholar*

**Gavin Zhao, Clara Xi Wang**

“Brain-region specific oxytocin signaling and its impact on behavior”

*Arthur Noulas Research Scholar.*

**Zelin Zhao**

“Brain bottlenecks for visual recognition in clutter”

*Collegiate Research Scholar*

**Yiwei Zhao**

“The Ugly Transformation and Coexistence Between Humanity and Animality in Chinese Modern Literature: Literary Analysis and A Creative Writing Approach.”

*Collegiate Research Scholar*

**Emily Zhu**

“The Model Minority Myth and the Legitimization of Inequality”

*Collegiate Research Scholar*

**Alicia Zhu**

“Zelda Transcriptional Regulation in Bidirectional elba1 and elba3 Drosophila Genes”

*Collegiate Research Scholar*