

## 2020 DEANS' SUMMER RESEARCH FELLOWS

**Autumn Barnes ('21)**

*Perspectives on Genomics Research and Curative Therapies for Sickle Cell Disease in Uganda*

**Bailey Bogle ('20)**

*Sylvia Plath and Anne Sexton's Confessional Poetry: A Comparative Study*

**Noelia (Noey) Boldizar ('21)**

*The Role of Receptor Phosphorylation in G Protein-Coupled Receptor Signaling*

**Elizabeth (Lizzie) Bond ('21)**

*"That Duty We Owe": Female Puritan Voices and Contractarian Ideas in Civil War-Era England and its Colonies*

**Annalise Bracher ('21)**

*Investigating the role of localized non-muscle myosin 10 in radial glial cell endfeet morphology*

**Emma Bucklan ('21)**

*Using ubiquitin-induced fluorescence complementation to measure K63-linked ubiquitination in vivo*

**Andrew Carlins ('21)**

*Treatment of Jewish Refugees Under the Franco and Vargas Regimes During WWII*

**Eric Chang ('21)**

*Examining Bournonite as a Semiconductor for Energy and Optoelectronic Applications*

**Allan Chen ('20)**

*Identifying novel genetic variants in MERTK-related genes associated with non-small cell lung cancer survival*

**David Chen ('21)**

*Endogenous Expression and Regulation of Basement Membrane Tissue Integrity, Maintenance, and Regeneration in Long-lived C. Elegans*

**Anne Crabill ('22)**

*Investigating the Impact of Social Media on Vaccine Hesitancy and Uptake*

**Madeleine Gagné ('21)**

*Mathematically Applied Strategy Research Exposure Project*

**Eleanor George ('21)**

*Gray Matter Volume Differences in Mesolimbic Structures Contributing to Connectivity of this Circuit in Individuals with Attention Deficit Hyperactivity Disorder.*

**Meghana Giri ('21)**

*Investigating the Role of Actomyosin and Mechanosensing Complexes in Zebrafish Notochord Segmentation*

**Bing Xuan Ho ('21)**

*Characterizing Heart Transcriptome Codon Usage Bias for Orthogonal Gene Therapeutic Approaches in Heart Failure*

**Christopher Honeycutt ('21)**

*Biased Agonism at CXCR3 Drives Differential Response to Oxidative Stress through BACH1*

**Naeema Hopkins-Kotb ('21)**

*Characterizing Mechanisms of Human Dicentric and Deleted X Chromosome Stabilization*

**Haley Hutchinson ('21)**

*Identification and Characterization of Novel Cis-Regulatory Elements Impacting PTEN Expression*

**Margret Joos ('21)**

*Rational design of combination therapies towards overcoming resistance in acute myeloid leukemia*

**Anna Kasradze ('21)**

*Diagnosing Literary Aesthetics: Romanticization of Depression and Rejection of Treatment in Contemporary British and Russian Novels*

**Daniel Kim ('21)**

*The Hollywood Asian - A Study of Asian Americans in Film & Television in the Early to Mid-20th Century*

**Caitlin Lamb ('21)**

*Role of SEC24D O-GlcNAcylation in COPII Cargo Secretion*

**Pin-Chian (Cathy) Lee ('21)**

*Block Hypergeometric Priors for Bayesian Variable Selection in Linear Models*

**Symon Ma ('21)**

*Molecular Basis for Beta-Arrestin Mediated Signalling through the MAPK Pathway*

**Alexandra (Lexy) Markunas ('22)**

*Lentiviral Delivery of Optogenetic Voltage Indicator to Examine Cardiac Repolarization Abnormalities Associated with Variant in TBX5 Gene*

**Charles (Griffin) McDaniel ('21)**

*Development of the Coagulation System in Infants and Neonates: A Study on Post-Translational Modifications to Clotting Factors*

**Noah Michaud ('21)**

*Visions of Africa in Renaissance Venice*

**Ellen Mines ('21)**

*Exploring Plasma Biomarkers of Sudden Infant Death Syndrome*

**Anwulika Okonjo ('21)**

*When I Call Myself a Feminist: Comparative Ideological Approaches to Women's Rights and Social Change in Nigeria*

**Priya Parkash ('22)**

*Motivations for the Pursuit of STEM amongst U.S.-bound Kenyan Students : A case-study of students enrolled in college access programs like KenSAP*

**Mihir Patel ('21)**

*Investigating ATM regulation of cohesin regulatory proteins NIPBL and WAPL during DNA repair*

**Stefanie Pousoulides ('21)**

*Women in the Armenian Genocide: The Legal and Humanitarian Response of the League of Nations (1919-1939)*

**Tatayana Richardson ('21)**

*What Happens in the Pulpit: How Privileging Black Theological Narratives Could Change the Church*

**Riccardo Romersi ('21)**

*Unfolding a Pathway: How Mesencephalic Astrocyte-Derived Neurotrophic Factor (MANF) Prevents Neurodegeneration*

**Omolola Sanusi ('21)**

*The college experience as a site of self creation: Post-Colonial reflection of the narrative of self and self-hood within the present day United States college experience*

**Ryan Sellers ('21)**

*Loss of DDR-2's Effect on B-LINK Components in C. elegans*

**Alizeh Sheikh ('21)**

*Sex differences in steroid levels in the blue-eyed black lemur (Eulemur macaco flavifrons): Implications for aggressive maintenance of female dominance*

**Lydia Smeltz ('20)**

*Evaluating Help Desk: Utility and Accessibility for Patients with Disabilities*

**Alan Su ('21)**

*Characterizing Genomic Elements Modulating Mechanosensitive Changes in Myosin-IIA Gene Expression*

**Christine Suh ('21)**

*Synthesis and Assessment of a Prochelator as a Strategy to Selectively Inhibit Metallo- $\beta$ -Lactamase*

**Wendy Tan ('21)**

*Investigating the expression and regulation of the transcription factor ETV1 in parvalbumin-expressing GABAergic interneurons of the nucleus accumbens*

**Mishek Thapa ('21)**

*Genetic and Computational Analysis of Retinitis Pigmentosa*

**Michael Tran ('21)**

*Elucidating the Role of Host AQP3 and Transcription Factors During the Liver Stage of Apicomplexan Infection*

**Miranda Wolford ('21)**

*Financing Francophone Africa: Evaluating Gender Representation in the Senegalese Technological Revolution*

**Shitong Wu ('21)**

*Fluid Shear Stress Regulation of Caskin2*

**Shuyun Xiao ('21)**

*Characterizing extended amygdala neurons involved in mammalian vocalization circuit*

**Jason Zhang ('21)**

*Microglia and Dopamine Signaling in Autism Spectrum Disorders*