

2023 Deans' Summer Research Fellows

Advika Kumar

Mechanisms of Crystalline Silica Modulated Autoimmunity in the BXSB Male Murine Lupus Model

Mentor: [Mary Foster](#)

Amiya Mehrotra

Higher Education as a Vessel of Democracy: How Higher Education Institutions Can Promote Political Participation in their Programming

Mentor: [Deondra Rose](#)

Andrew McCallum

Museums, Memory, and Migration in Paraguay

Mentor: [Christine Folch](#)

Andrew Shi

The Alterity of Narratives: the Leftist Intellectual Discourse of the Maoist Past and Its Rupture/metastasis

Mentor: [Rey Chow](#)

Angie Xie

Influence of induced mood and cognitive mode on the specificity of autobiographical and episodic memories

Mentor: [Kevin LaBar](#)

Ann Chang

Investigating the tissue-specificity of spastin dysfunction in Drosophila using CRISPR/CAS9

Mentor: [Nina Sherwood](#)

Annie Cui

A Departure from the Excellent Sheep? An Investigation of the Effect of COVID-19 on Undergraduate Students' Selection of Major and Job

Mentor: [Nick Carnes](#)

Anya Gupta

Hydration Melting in Olivine-Bearing Zone I of the Stillwater Complex, Montana

Mentor: [Alan Boudreau](#)

Arnav Barve

Prediction of Postpartum Readmission in Nulliparous Women

Mentor: [Osondu Ogbuonji](#)

Ben Koch

Deleuze and Mathematics: Towards a Rigorous Rhizome

Mentor: [Anne Garréta](#)

Cai Liu

Value Match in Peer Support: Improving the Effectiveness and Cultural Sensitivity of DukeLine

Mentor: [Nancy Zucker](#)

Christina Wang

What Americans Think Democracy Means

Mentor: [Nicholas Carnes](#)

Davidson Zhu

Efficient two-pairs connectivity augmentation algorithm

Mentor: [Debmalya Panigrahi](#)

Durga Sreenivasan

The Case for Equitable Reparations to Postcolonial India

Mentor: [Genna Miller](#)

Eliza Goldstein

Culture and Self Perception

Mentor: [Cristina Salvador](#)

Elizabeth Boger

Identifying and Characterizing Inhibitors of Plasmodium Heat Shock Protein 70

Mentor: [Emily Derbyshire](#)

Emily Sandberg

Longitudinal development of service dog cognition

Mentor: [Brian Hare](#)

Emma Podol

The Contribution of Nrg1/ErbB4 Signaling to the Homeostatic Effects of Seizures in Epileptic Models

Mentor: [James McNamara](#)

Grace Sorensen

Identifying Novel Interactors of UFL1 During Flavivirus Infection

Mentor: [Stacy Horner](#)

Huiyin Zhou

Nowhere/NowHere: Chinese diasporic feminism(s), proximity, and political translation

Mentor: [Ralph Litzinger](#)

Jason Liang-Lin

Small Molecule Allosteric Inhibitors of β -arrestin and Their Potency on T-cell Activation

Mentor: [Alem Kahsai](#)

Jayden Cyrus

Exploring a role for the engulfment receptor Draper in AD-HSP

Mentor: [Nina Sherwood](#)

Julia Davis

Exploring Parental Engagement in Family Connects

Mentor: [Kenneth Dodge](#)

Kashyap Sreeram

Investigating the Relationship Between LRRK2 Phosphorylation Events Enhanced in Parkinson's Disease

Mentor: [Andrew West](#)

Katheryn Turner

Language Policy on Mauritius Creole: Through the Lens of Primary School Educators

Mentor: [Deonte Harris](#)

Lila Taylor

The effect of drugs that more effectively target slow proliferating cells on ovarian cancer recurrence

Mentor: [Zhiqing Huang](#)

Miranda Zhong

dCas13-synIDP RNPG: developing a new tool for RNA transcripts

Mentor: [Ashutosh Chilkoti](#)

Rebecca Liu

*Investigating the effects of dietary restriction on maternal provisioning in nematode *P. pacificus**

Mentor: [Ryan Baugh](#)

Rodricka Robinson

Medical Mistrust in Black New Orleans

Mentor: [Katya Wesolowski](#)

Rose Naderi

Social Influences on Children's Exploration Behavior

Mentor: [Sarah Gaither](#)

Samantha Kefer

Comparative study of dog and lemur temperament and self-control

Mentor: [Brian Hare](#)

Sarah Yoon

Children's Collaboration with Robots

Mentor: [Tamar Kushnir](#)

Satya Yalamanchi

Determining the Impact of Aging on Gene Expression Regulated by Codon Bias in Animal Models

Mentor: [Zahra Kabiri](#)

Shreya Goel

Determining the Role of DNA Damage Response and Repair Mechanisms in the Progression of LRRK2 G2019S Induced Parkinson's Disease

Mentor: [Laurie Sanders](#)

Surya Cannon

Cultural preconceptions and environmental realities

Mentor: [Paul Jaskot](#)

Taylor Glatt

Provider Perspective on Barriers to Healthcare Accessibility For Refugees in Durham, NC

Mentor: [Sherryl Broverman](#)

Taylor Nguyen

Inducing synthetic lethality of Group 3/4 medulloblastoma using MYC-driven hypertranscriptional activity and BET inhibition

Mentor: [Scott Floyd](#)

Tianfang Yu

Optimization and Characterization of in-vitro 3D Cardiovascular Model

Mentor: [Sharon Gerecht](#)

Veronica Sanjurjo

Contraception Deserts

Mentor: [Candis Watts-Smith](#)

Zoe Murphy

The French Integration Project

Mentor: [Catherine Mathers](#)