



The Office of Undergraduate Research,
Scholarly, and Creative Activity (URSCA)
presents

ARTS & SCIENCES UNDERGRADUATE RESEARCH SYMPOSIUM








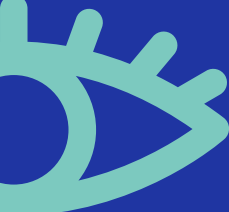
Featuring posters and presentations by
Albstein Research Scholars,
Dean's ASPIRE Grantees, and the winners of
the Camp & Farber, Shiu & Liu,
Phares Family, Bander Family, and
Louis E. Goodman Awards

TUESDAY, APRIL 29 | 9:00 AM - 12:30 PM
LEVERING GREAT HALL | GILMAN 132



JOHNS HOPKINS
KRIEGER SCHOOL
of ARTS & SCIENCES

Undergraduate Research,
Scholarly and Creative Activity



ARTS & SCIENCES UNDERGRADUATE RESEARCH SYMPOSIUM

APRIL 29, 2025


Oral Presentations | Gilman 132 | 9:00 am - 12:30 pm

- 9:00** **Margery Chen '25, Albstein Research Scholar**
Develop Cryptic Peptide ACTL6B as a CSF Biomarker of TDP-43 Loss of Function
- 9:15** **Weng I (Alisa) Leong '26, Albstein Research Scholar**
Novel Behavioral Task for Self-Control on Human Subjects
- 9:30** **Adam Luo '24, Albstein Research Scholar**
Baby, it's Cold...Inside that Tumor: B7-H3/CD276 and Immunotherapy Resistance in Glioblastoma
- 9:45** **Armaan Ahmed '26, Dean's ASPIRE Grantee**
Computational Study of a de novo Protein that Phase Separates in vivo into Liquid and Crystal States
- 10:00** **Alicia Guevara '25, Dean's ASPIRE Grantee**
Mapping Polo-Like Kinase-Dependent Phosphorylation sites in *C. elegans*
- 10:15** **Arman Kian '26, Dean's ASPIRE Grantee**
Regulation of the Oxidative Stress Response by Small RNAs in Archaea
- 10:30** **Jordyn Craig-Schwartz '25, Camp & Farber Awardee**
Modulating the Epigenome Synergistically to Induce Interferon Signaling in Diffuse Midline Glioma



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- 10:45** **Yash Lal '26, Dean's ASPIRE Grantee**
Graph Neural Networks to Predict Ablation Targets for Computationally Driven Atrial Fibrillation Therapy
- 11:00** **Adam Xia '25, Phares Family Grantee**
Besiege of Capitalism: How outside Capitalism Cripples Zhoujiazhuang's Socialist Economic Development through Deindustrialization
- 11:15** **Sandy Monter-Casio '26, Dean's ASPIRE Grantee**
Latino Experiences at Hopkins: A Digital Library
- 11:30** **Isioma Nwonye '25, Louis E. Goodman Awardee**
Art as a Catalyst: Memoir-Inspired Visuals Reframing Substance Use Disorder to Challenge Stigma
- 11:45** **Yara Changyit-Levin '26, Bander Family Fund Awardee**
Exploring Queer and Environmental Futures through a Jewish Science Fiction Novella
- 12:00** **Lillian Liu '26, Dean's ASPIRE Grantee**
A Road of Her Own: Women Travelers of the 1940s
- 12:15** **Ginger Trask '25, Dean's ASPIRE Grantee**
te 'ori tahiti e te 'ahu: Public Performances of Tahitian Dance and Costuming Innovations During the Height of French Colonialism in Tahiti, 1880-1910



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APRIL 29, 2025

Poster Sessions | Levering Great Hall | 9:00 - 11:00 am

9:00 - 10:00 AM

Joshua Seewald '26, Dean's ASPIRE Grantee

Understanding Visual Distractions with Alpha Brain Waves

Joey Chan '24, Albstein Research Scholar

Algorithm Development for Translating 2D In Vivo Imaging System (IVIS) Scans to 3D Models of Brain Tumors to Create a Longitudinal Analysis for Drug Efficiency Studies

Andrew Cavanagh '26, Dean's ASPIRE Grantee

Development of an Intranasal Treatment for Neonatal Brain Injury with LM11A-31

Daniel Ballinas '26, Dean's ASPIRE Grantee

Effect of Calcium-Activated Potassium Channels on Vestibular Nerve Responses to Fast Head Movements


Sidney Rucker '26, Dean's ASPIRE Grantee

African Americans and the Environment: The Influence of Capitalism on the Development of Public Health Issues and Interventions During The Great Migration (1940-1970)



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10:00 - 11:00 AM

Yiwei Vicky Zhu '26, Albstein Research Scholar

Smell, Sound, Space: Olfactory-Auditory Integration and Spatial Information Processing in the Lateral Entorhinal Cortex in Aging and Cognitive Decline

Yvette Shu '27, Dean's ASPIRE Grantee

Media Perspectives of Populism: An Examination of Rhetoric Around Robert F. Kennedy Jr.'s Presidential Campaign

Mingyuan Song '25, Dean's ASPIRE Grantee

Postpartum depression in carceral settings: improving access despite inequity

Karen Linares Mendoza '26, Shiu & Liu Awardee

The Impact of Functional and Social Motor Imitation on the Development of Social Communication in Children with Autism Spectrum Disorders

Rebecca Xu '26, Shiu & Liu Awardee

Toward a Clinical Trial in Rubinstein Taybi Syndrome: Designing a Cognitive Outcome Measure



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