

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

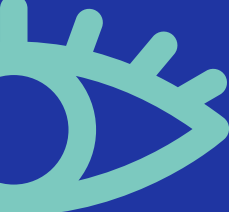
ARTS & SCIENCES UNDERGRADUATE RESEARCH SYMPOSIUM

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

TUESDAY, APRIL 28 | 9:00 AM - 5:00 PM
LEVERING GREAT HALL

 **JOHNS HOPKINS**
KRIEGER SCHOOL
of ARTS & SCIENCES

Undergraduate Research,
Scholarly and Creative Activity



ARTS & SCIENCES UNDERGRADUATE RESEARCH SYMPOSIUM 04.28.26



LEVERING GREAT HALL | SCHEDULE AT A GLANCE



9:00 - 10:30

ORAL PRESENTATION SESSION 1: BRAIN SCIENCES

Justina Miao, Sonya Zhang, Julie Fang,
Surya Ravinder, Miguel Velasco, Sophia Wu

10:30 - 12:00

ORAL PRESENTATION SESSION 1: ARTS & HUMANITIES

Isabella Wang, Mrigaanka Sharma,
Hailey Saya Tomlinson, Ido Harlev, Jacopo Villani,
Natalie Wang



12:00 - 12:45

LUNCH IN LEVERING LOUNGE

12:45 - 1:00

FACULTY MENTORSHIP AWARD

1:00 - 3:00

ORAL PRESENTATION SESSION 3: HUMANITIES & SOCIAL SCIENCES

Ben Andreesen, Ember Ye, Janero Li,
Lana Milman, Dua Hussain, Arusa Malik,
Rachel Baffoe-Bonnie



3:00 - 4:00

POSTER SESSION 1: SCIENCES AND PUBLIC HEALTH

Prarthana Daswani, Muadh Elyamani, Anika Kale,
Harmanpreet Kaur, Lara Stevens, Trace Terrell,
Jessica Zhang



4:00 - 5:00

POSTER SESSION 2: BRAIN SCIENCES


Jean Michael Ashby, Hanish Edupuganti,
Veronica Jung, Lexi Le, Jack Shi,
Ramazan Ege Solak, TC Taylor, Brandon Yoo



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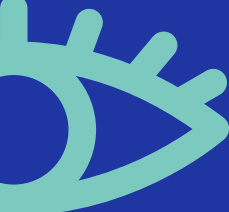
ORAL PRESENTATION SESSION 1 : 9:00 - 10:30 AM

- 9:00** **Justina Miao '26, Albstein Research Scholar**
Neuroprotective Role of Mast Cell-Specific Receptor (Mrgprb2/X2) in Multiple Sclerosis: An Examination of the Choroid Plexus
Mentor: Xinzhong Dong, SOM
- 9:15** **Sonya Zhang '26, Albstein Research Scholar**
Investigating the potential role of GPR39 in Lithium-Induced Nephrogenic Diabetes Insipidus
Mentor: Jinchong Xu, SOM
- 9:30** **Julie Fang '27, Dean's ASPIRE Grantee**
Dimensions of Childhood Adversity and Facial Emotion Processing in People with HIV
Mentor: Leah Rubin, SOM
- 9:45** **Surya Ravinder '26, Shiu & Liu Awardee**
Utilizing Artificial Intelligence to Calculate Tumor Volumes from 2D In Vivo Imaging System (IVIS) Scans
Mentor: Betty Tyler, SOM
- 10:00** **Miguel Velasco '26, University Fellow**
Investigating a Bidirectional Relationship Between Sleep and Frontotemporal Dementia in *Drosophila*
Mentor: Mark Wu, SOM
- 10:15** **Sophia Wu '26, University Fellow**
The molecular and cellular impact of relapse, a key determinant of poor prognosis of schizophrenia and psychotic disorders
Mentor: Akira Sawa, SOM



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ORAL PRESENTATION SESSION 2: 10:30 AM - 12:00 PM



10:30 **Isabella Wang '28, Louis E. Goodman Awardee**

Bridging the Gap: Putting Words to the Human
Faces of Science Through a Poetry Chapbook
Mentor: Bruce Snider, KSAS



10:45 **Mrigaanka Sharma '25, Bander Family Awardee**

The Third Place Project
Mentor: Amelia Hood, Berman Institute



11:00 **Hailey Saya Tomlinson '26, Dean's ASPIRE Grantee**

Peer Support's Relationship with Incarceration
Outcomes for Black Transgender Women in the U.S.
Mentors: Stefanie DeLuca and Vesla Weaver, KSAS

11:15 **Ido Harlev '26, Dean's ASPIRE Grantee**

Early 19th-Century New York Culture and Theater of
the American Revolution
Mentor: Sarah Pearsall, KSAS



11:30 **Jacopo Villani '27, Tyler Fellow**

From Baroque Theatricality to Enlightenment
Precision: Ceroplastics Between Art and Science
Mentor: Stephen J. Campbell, KSAS



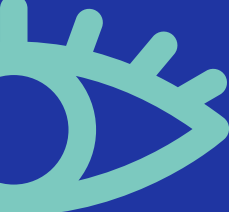
11:45 **Natalie Wang '26, Tyler Fellow**

A Screen of One's Own: Female Spectatorship and
Filmic Writing in Early British Cinema
Mentor: Laura Mason, KSAS



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ORAL PRESENTATION SESSION 3 | 1:00 - 2:45 PM

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- 1:00** **Ben Andreesen '26, Dean's ASPIRE Grantee**
Painting on the Margin: Street Art in Cartagena
Mentor: Alessandro Angelini, KSAS
- 1:15** **Ember Ye '26, Dean's ASPIRE Grantee**
Touchable Symptoms of Memory: Alina Szapocznikow's Sculptures of Body Casting
Mentor: Caroline Lillian Schopp, KSAS
- 1:30** **Janero Li '27, Dean's ASPIRE Grantee**
The Aesthetics of a Dream: Socratic Rationalism and Tragic Politics
Mentor: Rochelle Tobias, KSAS
- 1:45** **Lana Milman '26, Dr. Saraf Memorial Awardee**
The Flowers that Paved the Way: Public Scholarship on Three Baltimore Women and the Making of Artist Henri Matisse
Mentor: Jennifer Kingsley, KSAS
- 2:00** **Dua Hussain '26, Dr. Saraf Memorial Awardee**
Mujhe Depression Hai: (Mis)translations and Mental Health Training in Pakistan
Mentor: Clara Han, KSAS
- 2:15** **Arusa Malik '26, University Fellow**
Dividing to Unite? The Paradox of the Dayton Peace Agreement and Western Diplomacy, 1992-1995
Mentor: Victoria Harms, KSAS
- 2:30** **Rachel Baffoe-Bonnie '26, University Fellow**
Convictions, Cardinals, and Catechisms? A Critique on Transcultural Models of Care through an Examination of a Ghanaian Immigrant Catholic Community
Mentor: Lan Li, SOM



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POSTER SESSION 1 | 3:00 - 4:00 PM



Anika Kale '26, Dean's ASPIRE Grantee

Eyecare Brought to the Rural Doorstep: Exploration of the Innovation and Adoption of Mobile Ophthalmic Units in Rural Maharashtra, India

Mentor: Kendall Davina Frick, CBS



Trace Terrell '26, Dean's ASPIRE Grantee

Local and State Responses to the Termination of the 988 LGBTQ Youth Specialized Services Pilot Program

Mentor: Maria Bulzacchelli, KSAS

Prarthana Daswani '27, Dean's ASPIRE Grantee

Unveiling the role of senescent cells in muscle regeneration and fibrosis: a path to regenerative medicine

Mentor: Jennifer Elisseff, WSE

Harmanpreet Kaur '26, Dean's ASPIRE Grantee

Identification of SOX2 Transcription Factor Binding Partners During Zebrafish Hearing Regeneration and Development

Mentor: Erin Jimenez, KSAS



Lara Stevens '26, Dean's ASPIRE Grantee

Phosphorylation of CHIP Protects Ovariectomized Female Mice From Myocardial Infarction

Mentor: Mark Ranek, SOM

Jessica Zhang '27, Dean's ASPIRE Grantee

Investigating the potential role of GPR39 in Lithium-Induced Nephrogenic Diabetes Insipidus

Mentor: Jennifer Pluznick, SOM



Muadh Elyamani '26, University Fellow

Retinoic Acid Insufficiency on Cardiac Function

Mentor: Brian Foster, SOM



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POSTER SESSION 2 | 4:00 - 5:00 PM



Hanish Edupuganti '27, Albstein Research Scholar

Loss of CUL1 in Forebrain Excitatory Neurons Leads to Neurodegeneration

Mentor: Russell Margolis, SOM



Jack Shi '27, Albstein Research Scholar

Evidence for Motor Dysfunction and Cognitive Changes in a Novel Mouse Model for Lewy Body Dementia

Mentor: Ted Dawson, SOM



Lexi Le '27, Albstein Research Scholar

Two-photon Longitudinal Recording in the Mouse Medial Prefrontal Cortex During Serial Reversal Learning

Mentor: Kishore Kuchibhotla, KSAS



Jean Michael Ashby '26, Camp & Farber Awardee

Investigating the Role of XBP1 in Modulating the Immunosuppressive Phenotype of Recurrent Glioblastoma

Mentor: Erin Jimenez, KSAS



Lara Stevens '26, Dean's ASPIRE Grantee

Phosphorylation of CHIP Protects Ovariectomized Female Mice From Myocardial Infarction

Mentor: Hernando Lopez-Bertoni, SOM

TC Taylor '26, Shiu & Liu Awardee

miR-16-5p and miR-124-3p block the immunosuppressive phenotype of GBM cells in vitro

Mentor: Hernando Lopez-Bertoni, SOM

Brandon Yoo '26, University Fellow

Temperature-Regulated Epigenetic Effects on Sleep Patterns in *Drosophila*

Mentor: Mark Wu, SOM

Veronica Jung '26, University Fellow

Labeling opioid-sensitive neurons in the nucleus accumbens using mu opioid receptor iTango2

Mentor: Hyungbae Kwon, SOM

Ramazan Ege Solak '26, University Fellow

Role of MIF Nuclease on Aging and Parkinson's Disease

Mentors: Ted Dawson and Valina Dawson, SOM



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