



Honors Program
COLLEGE OF LETTERS & SCIENCE
UNIVERSITY OF WISCONSIN-MADISON

The L&S Honors Program proudly hosts the

**2024 Senior Honors Thesis
Symposium**

A Celebration of Undergraduate
Research and Scholarship

Friday, April 19, 2024

1:00 p.m. - 5:00 p.m.

Pyle Center

Please use the following QR code to explore the submitted abstracts for each presenter!



Registration
1:00 p.m. – 1:15 p.m.

Session 1:
1:15 p.m. - 2:15 p.m.

Brains, brains, brains (Room 209)

Preethi Saravanan (Biology): "Distribution of mesoamygdaloid dopaminergic innervation in hemiparkinsonian monkeys"

Cade Hottman (Neurobiology and Molecular & Cell Biology): "Identifying cortical areas by their gene expression profiles"

Julia Bink (Neurobiology and Psychology): "Body mass index moderates the relationship between the apnea-hypopnea index and CSF biomarkers of activated microglia"

Lauren Gitzlaff (Zoology): "Relationships between brain microstructure and Braak Stage progression in Alzheimer's disease (AD)"

Hollie Wierschke (Psychology): "Greater maternal inflammation during pregnancy is associated with reduced subcortical volumes in the infant brain"

Social pressures, social care (Room 213)

Abigail Collins (Psychology): ""As a Father of Two Daughters...": The Influence of Having Daughters on Policy Makers' Real and Perceived Gender Egalitarianism"

Ethan Yang (Economics): "School Closure and Family Housing Preferences"

Sarah Gesner (Sociology & Spanish): "Imagen That: TikTok, Film, and the Evolution of Women's Body and Beauty Norms in Spain"

Oli Wright (History): "The Death of Oiwa and her Centuries of Vengeance: Yotsuya Kaidan Through Time"

Ellie Thoma (Psychology): "The Effects of Social Connectedness: From Public Housing & Vouchers to the Classroom"

Learning, right, and wrong (Room 225)

Kaldan Kopp (Philosophy): "Positional Reasoning as Part of a Solution to Epistemic Problems"

Jenna Kroeger (Psychology and Legal Studies): "The Forensic Implications of Sentencing Decisions"

Agam Goyal (Computer Sciences): "Interpretable Extraction of Latent Spatiotemporal Emergent Properties of Complex Network Dynamics"

Pragati Maheshwary (Computer Sciences): "Comparative Analysis of Augmented Reality Landmark-Based Navigation: Insights from Sighted and Low-Vision Participants"

Government and economy (Room 232)

Haozhan Gao (Economics): "Overeducation in Social Learning"

Alexa Siegel (Statistics): "Estimating Probability of Stock Price Movements Across Industries"

Charles Pei (History): "'World Drifters': Institutional Reform, Illicit Enterprise, and Organized Crime in a Post-Socialist Factory Town, 1985 to the Present"

Paul Chung (Computer Sciences): "Shawshank Prison: Identifying Network Censorship Patterns and Approaches Used by ISPs around the World"

Will Romano (Journalism): "Media as a U.S. foreign policy tool: the Cold War in Chile, Cuba and Nicaragua, 1960-1990"

Session 2: 2:25 p.m. – 3:25 p.m.

Expressions of Biology (room 209)

Ethan Lin (Medicine): "Temporal Tracking of Pancreatic Cancer to Capture Dynamic Response"

Megan Nielsen (Genetics & Genomics): "Epigenetic augmentation of MHC1 expression sensitizes tumors to PC-CAR T cells in MHC-deficient models of high-risk neuroblastoma"

Carl Shirley (Molecular & Cell Biology): "STING/AXL Expression States Dictate Type I IFN Response in Melanoma"

Kristen Stott (Biology): "Fibrotic precision-cut lung slices for assessment of radiolabeled probe targeting"

Victoria Tholkes (Biochemistry): "Unraveling the Complexities of Telomerase Regulation by the Telomeric D-Loop"

Earthly survival (room 213)

Hailey Kuhn (Religious Studies): "Traditional Anishinaabe Socio-Ecological Lifeways and Their Present Revitalizations"

Noelle Candler (Gender & Women's Studies): "'Hold me, water': Exploring Care Collectives and Colonial Realities in Cantoras by Caro De Robertis"

Keeley Flynn (Art History): "The Avatar in New Media: Glitches, Cyborgs, and Feminist Framework For Earthly Survival"

Lucy Pyne (Civil and Environmental Engineering): "Understanding Influences on Dengue Case Counts Throughout Colombia"

Analea Scott (Pathobiological Sciences): "Investigating Regulation of the Salmonella DMSO Reductases by alternate electron acceptor availability"

Arts and realities (room 225)

Chloe Foor (History): "Enchanted Landscapes: Transforming Spaces through Witchcraft and Sorcery in 17th-century Cartagena"

Elsa Debargue (Spanish and International Studies): "The Unearthed of Gender Dynamics: The Leading Women of La Movida Madrileña"

Eva Kushner (Art History): "Conditional Ownership: The Restitution of Nazi-Looted Art and Provenance Ethics in Museums"

Victoria Stuart (Art History): "Can't Touch This: Exhibition-Making and Imaginative Touch at The Cloisters's 'Heavenly Bodies'"

Anna Nelson (Philosophy and Gender & Women's Studies): "When Feminists Disagree: Pedagogical Responsibilities in Teaching Feminist Theory"

Supermassive to microscopic (room 232)

Achintya Krishnan (Astronomy-Physics): "Constraining Properties of the Milky Way's Central Supermassive Black Hole via Observations of a Close-Orbit Star"

William Jarvis (Astronomy): "An Analysis of Radio AGN Plasma Ages Calibrated Using Magneto-Hydrodynamic Jet Simulations and Their Application to Real Galaxies"

Vicki Braianova (Physics): "Using the Continuous Voxel Intensity Distribution to analyze simulations of line intensity mapping with the [CII] line"

Sirawit Lertwiriyaipiti (Chemistry): "Phage-assisted evolution of ribosomally synthesized cyclic peptides for inhibition of a transcriptional repressor LexA autoproteolysis"

Amory Griffin (Chemistry): "Silver Catalyzed C-H Amination as a Route to Novel Mycobacterium tuberculosis Inhibitors"

Session 3: 3:35 p.m. – 4:25 p.m.

Reading and writing history (room 209)

Michael Rubinos (Art History): "Unsettled Masculinities: Homoeroticism & Orientalizing Tropes in Revolt at Cairo (1810)"

Cayden Kirkpatrick (History): "Managing the 'Long Knives': Ho-Chunk International Policy Between the War of 1812 and the Black Hawk War"

Aliza Ramirez (History): "'Barriers Burned Away?': Structuring disaster vulnerability after the 1874 Chicago Fire"

Aliya Glasper (Art History): "Aesthetics of Care: the FWD: Truth Campaign & Community-Based Repair"

(Not just) Environmental factors (room 213)

Ethan Seng (Bacteriology): "Engineering of bacterial strains for biosynthesis of biodegradable plastics from dairy waste streams"

Alivia Arrendondo (Conservation Biology): "Whitebark Pine: a potential key species in the food web of American Martens"

Ronan Montgomery-Taylor (Botany): "Using Biological Mock Communities to Investigate Bias in the Community Sequencing of AM Fungi"

Ashton Jenks (Anthropology): "Morphological Sexual Dimorphism with an eye to Homo naledi"

Pinky and the brain (room 225)

Mohan Kumar (Zoology): "Neuroimmunology: Mycobacterium tuberculosis (Mtb) Infection reduces NPC proliferation in the Dentate Gyrus in vivo"

Andrew Liang (Neurobiology): "Identifying Mechanisms Underlying Neurodegeneration by Tmem135 Overexpression through Lipidomic Analysis"

Paige Ung (Neurobiology): "Effects of Mitochondrial Rcc1-like Gene on Hippocampal Learning and Memory"

Grace Turner (Communication Sciences & Disorders): "Speech Induced Suppression: Hemispheric Stability and Activity"

Systems and language (room 232)

Halle Timm (Communication Sciences & Disorders): "Do bilingual children learn new signs better than monolingual children?"

Henry Nomeland (Statistics): "Interpretable Dialect Classification: A Statistical Modeling Pipeline for Identifying Phonetic Dialect Features"

Harris Zhang (Computer Sciences): "CounterCurate: Enhancing Physical and Semantic Visio-Linguistic Compositional Reasoning via Counterfactual Examples"

Yijing Zhang (Computer Sciences): "Methods for domain-specific fine-tuning for generative models"

Reception

4:30 p.m.

Presenters should stop by the hallway next to room 209 to receive a gift from the Honors Program. All are welcome to come and celebrate the accomplishments of the student presenters.