

Welcome

On behalf of all of us working in the L&S Honors Program, I am delighted to welcome you to the Seventh Annual Senior Honors Thesis Symposium. We have an exciting and wide-ranging program this year, with numerous panels (organized in three sessions) on a variety of themes.

The thesis work completed by many L&S Honors students is on par with that of advanced graduate students. Some of these students will also present the results of their research at professional conferences in their disciplines and go on to publish their senior Honors thesis research in academic journals and other outlets. We are excited to provide this opportunity for students to share their work with others, to have family and friends witness their accomplishments, and to inspire future Senior Honors Thesis students.

Thank you to all of the members of the Honors Program team who have contributed to making this a successful event. Thank you to fellow Honors students who have volunteered to moderate the sessions. Special thanks to faculty mentors for all the hard work that goes into advising a research project of this scale.

I hope that you will enjoy the presentations. Please join me in congratulating the highly talented students presenting today! We invite you to join us for lunch in the "State" room on the fourth floor. After the presentations, please join us to celebrate and enjoy conversation, cake, and punch at the Closing Reception, also in State. Come visit with students, faculty advisors, family, and friends!

Sabine Gross, Faculty Director

Our gratitude and special appreciation go to
Todd Franks (BS'75, English) and Nancy Bodinet,
and to contributors to the
Michael J. Spector Honors Program Excellence Fund.
The L&S Honors Program is able to host this annual Symposium
thanks to the generosity of these valued supporters!

Symposium Schedule

9:00 a.m. Registration and Breakfast
(State, Floor 4)

9:45 a.m. Remarks: Sabine Gross, Faculty Director
(State, Floor 4)

10:00 a.m. - 11:10 a.m. Morning Session I
Politics, Science, & History (Class of '24, Floor 4)
Learning & Education (Beefeater, Floor 3)
Physics & Technology (Old Madison, Floor 3)

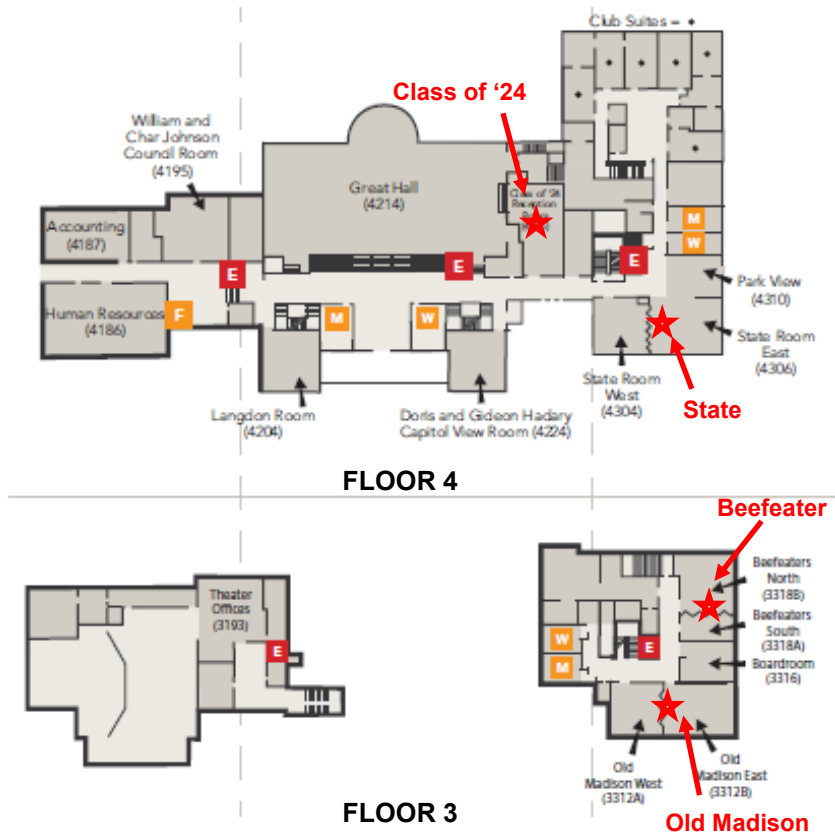
11:20 a.m. - 12:15 p.m. Morning Session II
Conservation Biology in Madison, WI (Class of '24, Floor 4)
Cellular Mechanisms (Beefeater, Floor 3)
The Mind and Body (Old Madison, Floor 3)

12:20 p.m. - 1:30 p.m. Lunch
(State, Floor 4)

1:35 p.m. - 2:50 p.m. Afternoon Session
Social Judgments (Class of '24, Floor 4)
Snapshots of History (Beefeater, Floor 3)
Human Decision Making (Old Madison, Floor 3)

3:00 p.m. - Closing Reception (to follow last session)
(State, Floor 4)

Map of Floors 3 & 4 of Memorial Union



Morning Session I

10:00 a.m. - 11:10 a.m.

Politics, Science, & History (Class of '24, Floor 4)

Hannah DeBrine (Philosophy): "Reconstructing the Past: Evidential Reasoning in the Historical Sciences"

Erin Schoenbeck (Psychology): "Quantitative Comparison of Nonhuman Primate Environmental Enrichment across US Research Facilities, Sanctuaries, and Zoos: Application of a Standardized Assessment Tool"

Ronald Steinhoff (Political Science): "Improving Hispanic/LatinX Student Access to Mental Health Services"

Thomas Powers (History): "Classified Computing: The Effects of World War Two on the Legacy of the Computer"

Learning & Education (Beefeater, Floor 3)

Ellen Converse (Psychology): "Children's Books Are an Early Source of Gender Knowledge"

Haley Fuhr (Neurobiology): "EEG Measures of Undergraduates with ADHD During Performance of Tai Chi: A Feasibility Trial"

Monica Janz (Educational Neuroscience): "Investigating White Matter Pathways Associated with Ratio Processing in School-Aged Children"

Lisa Larson (Psychology): "Examining the Effects of Choice in Utility-Value Interventions"

Physics & Technology (Old Madison, Floor 3)

Evan Koenig (Physics): "Search for Dark Matter in Models with a Very Light Z"

Songwong Tasneeyapant (Computer Science): "Light Weight Object Detection for Small-Form-Factor Devices"

Marc Tost (Physics): "Dark Matter Detection using the CMS Detector at CERN"

Yiwen Zhang (Physics): "The Anomalous Hall Effect and Colossal Magnetoresistance of Mn₃GaN"

Morning Session II

11:20 a.m. - 12:15 p.m.

Conservation Biology in Madison, WI (Class of '24, Floor 4)

Raina Eddy (Geography): "Learning to Live with Coyotes: Madison Citizens' Experiences and Attitudes"

Kevin Hobbins (Botany): "Effects of Jumping Worms on Trees and Their Fungal Friends"

Dane McKittrick (Landscape Architecture): "An Examination of the Pre-Restoration Condition of the Cherokee Marsh Estuary"

Cellular Mechanisms (Beefeater, Floor 3)

Sritejasvinithi Karimikonda (Neuroscience): "Probing Conformational Changes Underlying Anesthetic Drug Actions in Pentameric Ligand-Gated Ion Channels"

Sam Rider (Biochemistry): "Manipulating Cellular Trafficking Positively Affects Syn-TEF Function in Human Tissue"

Zijie (Jay) Wang (Statistics): "Classifying T Cell Activity with Convolutional Neural Networks"

The Body and Mind (Old Madison, Floor 3)

Simarpreet Kaur (Medicine): "The Effect of Hyperoxic Conditions on Heart Structure and Function in a Rat Model of Bronchopulmonary Dysplasia"

Elizabeth Thompson (Neurobiology): "Development of a Human and Age-Specific In Vitro Model for Studying Axon Growth"

Nicholas VanDerwerker (Biology): "Alterations in Water Diffusion MRI Metrics in the Human Brain with Increasing Age in a Population with Elevated Alzheimer's Disease Risk Factors"

Afternoon Session

1:30 p.m. - 2:45 p.m.

Social Judgments (Class of '24, Floor 4)

Gwyneth DeLap (Psychology): "The Impact of Conflicting Emotional Cues on Facial Expression Intensity Ratings Across Development"

Jacqueline Erens (Psychology): "Word Choice Between Synonyms"

John Kinney (Philosophy): "Physical Structuralism, Grounding, and Ontological Status in Russellian Monism"

Jessica O'Neill (Psychology): "Social Judgments in Safety Situations"

Snapshots of History (Beefeater, Floor 3)

Samuel Bertsch (History): "The Man in Saigon: Wesley R. Fishel, Michigan State University and South Vietnam"

Stella Lehane (History): "'History of My Mind': The Life of Angelica Schuyler Church and the Experiences of Elite American Women Abroad in Europe in the Late 18th Century"

Junru Wang (History): "The Decreasing Engagement of Defense in the Northern Border Regions: From 1402 to 1449"

Alder Levin (History of Science): "International Eradication Campaigns: How Attitudes Toward Eradication Changed Throughout the Twentieth Century"

Human Decision Making (Old Madison, Floor 3)

Travis Cao (Economics): "Does Energy Efficiency Affect Demand: An Empirical Study on the Energy Paradox Within Automobile Industry"

Rebekah Dix (Economics): "Strategic Interactions with Formal and Informal Institutions"

Charles Elliott (Political Science): "Curing the Mischiefs of Faction: Political Tribalism, Contact Theory, & the Case for Mandatory Public Service"

Samuel Ilic (Mathematics): "Stochastic Volatility Option Pricing via the Fundamental Transform"