

**Visible Thinking Schedule**  
**Friday, April 15, 2022**  
**11:00am – 1:00pm**

**Behavioral Sciences/Psychology**

<b>Presenter</b>	<b>Faculty Mentor</b>	<b>Title</b>	<b>Time</b>
<b>Alexander Brandt</b>	Scott Huettel	<i>Economic Situations and Social Distance: Taxation and Donation</i>	12:00pm - 1:00pm
<b>Camryn Capoot</b>	Michael Tomasello	<i>Young Children's Understanding of Inclusive "We"</i>	12:00pm - 1:00pm
<b>Megan Gerges</b>	Ashley Harrell	<i>The Effects of the Timing of Trust Violations based on Political Ideology and Group Membership</i>	12:00pm - 1:00pm
<b>Bridgette Han</b>	Gary Bennett	<i>Mental Health in Korean American (MIKA) Communities Project</i>	12:00pm - 1:00pm
<b>Sonia He</b>	Rick Hoyle	<i>Childhood Teachers' Responses to Their Students' Emotions: An Early Look at a Novel Measure</i>	11:00am - 12:00pm
<b>Ishaan Kumar</b>	Misha Angrist	<i>Examining the relationship between social identity motivation and anti-vaccine beliefs in varyi</i>	11:00am - 12:00pm
<b>Jingxuan Liu</b>	Elika Bergelson	<i>An examination of adults' use of mutual exclusivity in response to mispronunciations</i>	11:00am - 12:00pm
<b>Zoe Lusk</b>	Nancy Zucker	<i>Using visualization to reduce test anxiety in collegiate student athletes</i>	12:00pm - 1:00pm

<b>Emily Mawyer</b>	Makeba Wilbourn	<i>Effects of Explanation and Framing on Belief and Sharing Behavior</i>	12:00pm - 1:00pm
<b>Emily Raich</b>	Michael Gaffrey	<i>Exploring the Relationship Between Discrimination and Maternal Fetal Attachment</i>	12:00pm - 1:00pm
<b>Paige Sevchik</b>	Ruth Day	<i>Knowledge Structures: Top-Down vs. Bottom-Up Strategies</i>	11:00am - 12:00pm
<b>Clarke Shead</b>	Sarah Gaither	<i>Behind the Curtain of Competency: Assessing Racial Colorblindness of Premedical Students</i>	12:00pm - 1:00pm
<b>Aren Tucker</b>	Michael Tomasello	<i>Young children judge defection less negatively when given a good excuse</i>	11:00am - 12:00pm
<b>Jonathan Victor</b>	Ruth Day	<i>Jury Cognition: Understanding the Insanity Defense</i>	11:00am - 12:00pm
<b>Colson Zucker</b>	Bridgette Hard	<i>Harnessing Stress in Sports &amp; School: Testing A Stress-Mindset Intervention for Student-Athlete</i>	11:00am - 12:00pm

## Creative Arts

Presenter	Faculty Mentor	Title	Time
<b>Aaron Zhao</b>	Jules Odendahl-James	<i>Rural Medicine: A Photographic Depiction</i>	11:00am - 12:00pm

## Humanities

Presenter	Faculty Mentor	Title	Time
<b>Dakota Douglas</b>	Jules Odendahl-James	<i>AT THE CROSSROADS, BLACK DISABLED LIVES DO MATTER: Race and disability in special education</i>	12:00pm - 1:00pm
<b>Shania Khoo</b>	Calvin Cheung-Miawe	<i>Even if the Institution Forgets, We Remember: How Activist Memory Drives Student Organizing</i>	12:00pm - 1:00pm
<b>Kate Leonard</b>	Anne Allison	<i>Sustainability in Hawai'i: Caring for 'Āina, Culture, and People</i>	11:00am - 12:00pm
<b>Charlotte Lim</b>	Astrid Giugni	<i>Caring for a Corrupt Corpus: Ethical and Legal Standpoints on English Consumption (1660-1714)</i>	11:00am - 12:00pm
<b>Kerry Rork</b>	Lee Sorensen	<i>Women in Art History: 1930-1950: Intellectual Realities</i>	11:00am - 12:00pm
<b>Abby Shlesinger</b>	Kristine Stiles	<i>An Unexpected Discovery: Analogizing Fifteen Female Artists of the Mid-20th Century</i>	11:00am - 12:00pm
<b>Heidi Smith</b>	Astrid Giugni	<i>Caring for a Corrupt Corpus: Ethical and Legal Standpoints on English Consumption (1660-1714)</i>	11:00am - 12:00pm
<b>Amy Weng</b>	Astrid Giugni	<i>Caring for a Corrupt Corpus: Ethical and Legal Standpoints on English Consumption (1660-1714)</i>	12:00pm - 1:00pm
<b>Huiyin Zhou</b>	Robert Korstad	<i>Uncovering, Resisting, Remembering: African American Labors at Duke and in Durham</i>	12:00pm - 1:00pm

## Social Sciences

<b>Presenter</b>	<b>Faculty Mentor</b>	<b>Title</b>	<b>Time</b>
<b>Natalie Ezem</b>	Maria Febbo	<i>Black Health in America: Effects of Trust on Health Care Utilization in the African Diaspora</i>	11:00am - 12:00pm
<b>Nikhita Gopisetty</b>	Sumedha Ariely	<i>Experience of Diabetes in Young Adults in Mysore District</i>	12:00pm - 1:00pm
<b>Elaijah Lapay</b>	Kathy Sikes	<i>Understanding CEnR Partnerships from Institutional and Community Stakeholder Perspectives</i>	12:00pm - 1:00pm
<b>Maria Morrison</b>	Joseph Grieco	<i>Overcoming the Fear of Destruction through Technological Advancement and Political Obligation</i>	12:00pm - 1:00pm
<b>Anh-Huy Nguyen</b>	Peter Arcidiacono	<i>Revisiting CA Proposition 209: Changes in Science Persistence Rates &amp; Overall Graduation Rates</i>	12:00pm - 1:00pm
<b>Gwyn Reece</b>	Patty Van Cappellen	<i>Beliefs About Life After Death Predict Prejudice in This Life</i>	11:00am - 12:00pm
<b>Sihan(Jen) Wang</b>	Bridgette Hard	<i>Note-taking mediums, expectations and learning outcomes</i>	12:00pm - 1:00pm

**Visible Thinking Schedule**  
**Monday, April 18, 2022**  
**11:00am – 1:00pm**

**Behavioral Sciences/Psychology**

<b>Presenter</b>	<b>Faculty Mentor</b>	<b>Title</b>	<b>Time</b>
<b>Emily Mawyer</b>	Makeba Wilbourn	<i>Effects of Explanation and Framing on Belief and Sharing Behavior</i>	12:00pm - 1:00pm

**Biological Sciences**

<b>Presenter</b>	<b>Faculty Mentor</b>	<b>Title</b>	<b>Time</b>
<b>Alexander Behura</b>	Andrew Landstrom	<i>A new in vitro model of arrhythmogenic cardiomyopathy and calcium leak</i>	12:00pm - 1:00pm
<b>Elizabeth Boger</b>	Emily Derbyshire	<i>Identifying Inhibitors of Hsp70 in Plasmodium using Thermal Shift Assay</i>	11:00am - 12:00pm
<b>Julia Choi</b>	Daniel Schmitt	<i>Effects of ground angle on human vertical jump performance</i>	12:00pm - 1:00pm
<b>Isabella Constanzo</b>	John Perfect	<i>Characterization of GAT1 interactors in NCR in Cryptococcus neoformans</i>	12:00pm - 1:00pm
<b>McKenna Crawford</b>	Emily Derbyshire	<i>Investigating Aquaglyceroporins and Host-Parasite Interactions in Liver Stage Malaria</i>	11:00am - 12:00pm
<b>Jayden Cyrus</b>	Nina Sherwood	<i>Identifying the Site of Action of Spastin</i>	12:00pm - 1:00pm

<b>Julia Gardner</b>	Sudarshan Rajagopal	<i>Location Bias Contributes to Functionally Selective Responses of Biased CXCR3 Agonists to Regul</i>	12:00pm - 1:00pm
<b>Amy Guan</b>	Ann Saterbak	<i>LowCostomy bag for low-income ostomy patients</i>	11:00am - 12:00pm
<b>Sofia Guerrero</b>	Gustavo Silva	<i>A novel link between mitochondrial function and oxidative stress mediated by the ubiquitin conj</i>	11:00am - 12:00pm
<b>Chloe Hicks</b>	Sudarshan Rajagopal	<i>Location Bias of G Protein-Coupled Receptor Kinases Promotes Biased Signaling at CXCR3</i>	12:00pm - 1:00pm
<b>Ruitian Hu</b>	Emily Derbyshire	<i>Title: Identification of a covalent inhibitor that targets Ubc13 in the malaria parasite</i>	12:00pm - 1:00pm
<b>Nick Kaney</b>	Robert Schick	<i>Reproducible research and visualization techniques in support of the Atlantic BRS</i>	12:00pm - 1:00pm
<b>Taylor Kohlmann</b>	Sudarshan Rajagopal	<i>Determining Requirements for Gai:β-arrestin complex formation at G Protein-Coupled Receptors</i>	12:00pm - 1:00pm
<b>Ashwin Kulshrestha</b>	Kate Meyer	<i>Getting Funky with CRISPR-Cas9: Engineering a METTL3 Catalytic-Dead Mutant</i>	12:00pm - 1:00pm
<b>Advika Kumar</b>	Mary Foster	<i>Crystalline silica inhalation modulates BXS murine lupus</i>	12:00pm - 1:00pm
<b>Erica Langan</b>	Aleksandra Tata	<i>Elucidating the role of submucosal gland-derived reserve stem cells in long-term airway repair</i>	12:00pm - 1:00pm

<b>Grace Lee</b>	Henry Yin	<i>The contributions of distinct cell types in regulating orientation in the superior colliculus</i>	11:00am - 12:00pm
<b>Seayoung Lee</b>	Gayathri Devi	<i>Targeting XIAP Suppresses Formation of Inflammatory Breast Cancer Tumor Organoids</i>	12:00pm - 1:00pm
<b>Sean Li</b>	Eric Thompson	<i>Implications of CD155 on the Migratory Abilities of Medulloblastoma</i>	11:00am - 12:00pm
<b>Celina Ma</b>	Terry Lechler	<i>Investigating the Role Maf Proteins Play in Enterocyte Physiology Using Mouse Models</i>	11:00am - 12:00pm
<b>Shibani Mallik</b>	Nina Sherwood	<i>Using HACK conversion to improve CRISPR knock-out efficiency of spastin in Drosophila</i>	11:00am - 12:00pm
<b>Alexandra Markunas</b>	Andrew Landstrom	<i>Lentiviral delivery of fluorescent biosensors to induced pluripotent stem cell cardiomyocytes</i>	11:00am - 12:00pm
<b>Fatima Massare Somers</b>	Goldis Malek	<i>Investigating ERR<math>\alpha</math> in the eye as a function of age and disease</i>	12:00pm - 1:00pm
<b>Madison McMichael</b>	Mary Foster	<i>Using an AAV-4 vector to express human-CXCL13 chemokine in cell culture and in vivo</i>	11:00am - 12:00pm
<b>Emily Miller</b>	Yiping He	<i>Differential Efficacy of Mutant IDH Inhibition Among Gliomas</i>	11:00am - 12:00pm
<b>Andrew Nguyen</b>	Kenneth (Matthew) Scaglione	<i>Characterization of SCA48-linked CHIP mutants</i>	11:00am - 12:00pm

<b>Ethan Nicklow</b>	Tatiana Segura	<i>Engineering MAP Hydrogel Scaffolds to Modulate Molecular Transport and Bioactivity</i>	12:00pm - 1:00pm
<b>Claire Parker</b>	Herman Pontzer	<i>Metabolic Response to Influenza Vaccination</i>	11:00am - 12:00pm
<b>Jonathan Pertile</b>	Christine Drea	<i>Comparative Neuroendocrinology of Lemur Pregnancies</i>	12:00pm - 1:00pm
<b>Danielle Pitchon</b>	Emily Derbyshire	<i>Understanding the loading and release mechanisms of polyketide synthases in <i>Toxoplasma gondii</i></i>	12:00pm - 1:00pm
<b>Grace Qi</b>	Carol Colton	<i>Investigating circadian rhythms and metabolism in mouse models of Alzheimer's Disease</i>	11:00am - 12:00pm
<b>Brinda Raghavendra</b>	Jenna McHenry	<i>Mapping Distinct Behaviors and Neural Ensembles Evoked by Social and Nonsocial Odor Cues</i>	11:00am - 12:00pm
<b>Pratamesh Ramasubramanian</b>	Justin Pollara	<i>Evaluating NK Cell and Monocyte Contribution to ADCC elicited by Infant Candidate HIV Vaccines</i>	11:00am - 12:00pm
<b>Ryan Rogers</b>	Brian Silliman	<i>Density Dependent Control of Oyster Parasites by Generalist Consumers</i>	12:00pm - 1:00pm
<b>Daniel Ryan</b>	Emily Derbyshire	<i>Characterizing the Mosquito Microbiome's Role in Regulating the Aryl Hydrocarbon Receptor</i>	12:00pm - 1:00pm
<b>Sabrina Sebastian-San Miguel</b>	Emily Derbyshire	<i>Sequence homology predicts E1-E2 ubiquitination interaction in the malaria parasite</i>	11:00am - 12:00pm



<b>Lauren Sheu</b>	Smita Nair	<i>Assessing anti-B7-H3 antibody and gp70 cancer vaccine therapy for TNBC</i>	11:00am - 12:00pm
<b>Keying Sun</b>	Anna Truong	<i>Probing the role of PfUbc13 in antimalarial activity</i>	11:00am - 12:00pm
<b>Linda Tang</b>	Anna Mae Diehl	<i>Characterizing an in vivo Mice Model for Studying Senescence in Hepatocytes</i>	11:00am - 12:00pm
<b>Hishi Ulak</b>	Eric Spana	<i>Mapping Drosophila pigmentation mutations: su(b) phenotype</i>	12:00pm - 1:00pm
<b>Arthi Vaidyanathan</b>	Edward Miao	<i>Characterizing Mechanisms of Innate Immunity: Role of GBPs in Defending Against F. philomiragia</i>	12:00pm - 1:00pm
<b>Simone Wall</b>	Ashutosh Chilkoti	<i>Serological Profiling of COVID-19 at the Point-of-Care from Blood</i>	11:00am - 12:00pm
<b>Rachel Washart</b>	Kris Wood	<i>Caspases 3 and 7 Suppress mtRNA-Dependent MAVS Activation During Apoptosis</i>	11:00am - 12:00pm
<b>Angela Wei</b>	Ornit Chiba-Falek	<i>The role of the TOMM40 poly-T variant on APOE-TOMM40 gene cluster regulation in humanized mice</i>	12:00pm - 1:00pm
<b>Brenda Yang</b>	Christopher Nicchitta	<i>RNA-seq analysis of mRNA export from the nucleus</i>	12:00pm - 1:00pm
<b>Catherine Yao</b>	Babak Mirminachi	<i>Exploring the immune response in obesity-associated colorectal cancer</i>	11:00am - 12:00pm

Jeffrey Zheng	Dewey McCafferty	<i>Investigating Substrate Specificity of Ramoplanin Family Fatty Acyl-AMP Ligases</i>	11:00am - 12:00pm
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### Health/Clinical Research

Presenter	Faculty Mentor	Title	Time
Brooke Bier	Cheryl Lin	<i>Uncovering the imprint of chronic disease: Perspectives from rheumatoid arthritis patients</i>	11:00am - 12:00pm
Arushi Biswas	Ann Saterbak	<i>Low-Cost Gastroschisis Silo for Sub-Saharan Africa: Testing the safety profile in porcine model</i>	12:00pm - 1:00pm
Nikki Daniels	Jennifer Plichta	<i>Pregnancy-Associated Breast Cancer: A Retrospective, Single-institution Case Series</i>	11:00am - 12:00pm
Arindam Ghosh	Teresa Tarrant	<i>Exploring the Role of G Protein-Coupled Receptor Kinase 3 in Paget's Disease of Bone</i>	11:00am - 12:00pm
Sophia Gomez	Nancy Zucker	<i>PTSD Diagnostic Discrepancies: Concordance of Child-Caregiver Reports</i>	12:00pm - 1:00pm
Danielle Kapustin	Richard Chung	<i>Facilitating Flourishing for Youth w/IDD in Healthcare Transitions Using Human-Centered Design</i>	12:00pm - 1:00pm
Xinshi Ma	Yuqi Zhang	<i>Association between CMS Price Transparency Compliance and Hospital Characteristics</i>	12:00pm - 1:00pm
Roni Ochakovski	Yuqi Zhang	<i>Hospital Characteristics Associated with Observed Transcatheter Aortic Valve Replacement Prices</i>	12:00pm - 1:00pm
Joanna Peng	Ann Saterbak	<i>LowCostomy</i>	12:00pm - 1:00pm
Megan Richards	Nimmi Ramanujam	<i>Deep Learning Based Cervical Cancer Detection</i>	11:00am - 12:00pm
Caroline Salzman	Ann Saterbak	<i>Low-Cost Gastroschisis Silo for Sub-Saharan Africa: Testing the safety profile in porcine model</i>	11:00am - 12:00pm
Andrew Tran	Amy Bejsovec	<i>Resection for Hepatocellular Carcinoma with Macrovascular Invasion: A Meta-Analysis</i>	11:00am - 12:00pm

<b>Franklin Wei</b>	Hafeez Dhalla	<i>Development of a handheld retinal imaging device for diagnosing diabetic retinopathy</i>	12:00pm - 1:00pm
<b>Patrick Wilson</b>	Ann Saterbak	<i>Low-Cost Gastroschisis Silo for Sub-Saharan Africa: Testing the safety profile in porcine model</i>	12:00pm - 1:00pm

## Humanities

Presenter	Faculty Mentor	Title	Time
Yuchen Lu	Astrid Giugni	<i>17th-century Ephemeral Literature: Machine Learning in Understanding Ordinary Lives in London</i>	11:00am - 12:00pm

## Physical Sciences

Presenter	Faculty Mentor	Title	Time
Rithik Castelino	Katherine Franz	<i>Investigating Antimicrobial Metallopeptide Mechanisms: Hist-5</i>	12:00pm - 1:00pm
Nicholas Doak	Dewey McCafferty	<i>Identification and characterization of the NAB2 binding site on Nedd4 E3 ubiquitin ligase</i>	12:00pm - 1:00pm
Sean Gao	Katherine Franz	<i>Investigating the buffer-independent thermodynamics for zinc binding to histatin 5</i>	11:00am - 12:00pm
Dhanasheel Muralidharan	Amanda Hargrove	<i>Multi-Assay Profiling to Reveal the Modularity of the MALAT1 Triple-Helix Stability in vitro</i>	11:00am - 12:00pm
Aaron Petty	Michael Fitzgerald	<i>Identification of E. Coli Protein-Copper Binding Sites Using HDX-Mass Spectrometry</i>	11:00am - 12:00pm
Faraan Rahim	Steven Malcolmson	<i>1,2-Amino Alcohol Syntheses via CuH-Catalyzed Reductive Couplings of 2-Azatrienes with Ketones</i>	12:00pm - 1:00pm
Tianrui Wu	Ronen Plesser	<i>Nonlinear dynamics of trapped Leidenfrost drop</i>	11:00am - 12:00pm
Junzhe Zhou	Michael Troxel	<i>The self-calibration of galaxy intrinsic alignment</i>	11:00am - 12:00pm

## Quantitative Sciences

Presenter	Faculty Mentor	Title	Time
Yijia Liu	Hau-tieng Wu	<i>Time series analysis using multitaper method</i>	12:00pm - 1:00pm
Sasamon Omoma	Maria Gorlatova	<i>Pose Analysis for Room-Scale VR</i>	12:00pm - 1:00pm
Eric Qi	Boyla Mainsah	<i>Automated Signal Quality Assessment of Electroencephalography Data in Preclinical Mouse Models</i>	12:00pm - 1:00pm