



Department of Psychology
UNIVERSITY OF WISCONSIN-MADISON

Data Science and Human Behavior Final Presentations

12.12.25 | 10a-1pm | Union South



SCHEDULE OF EVENTS

Session 1: Applied Behavioral Research

10:00am

Kenneth Diao

Collaborator: Dr. Nick Buttrick

A Measure of Issue–Position Polarization



10:10am

**Christine Lin, Tracey Hey, Ho Wong,
Nicole Friedl, and Anders Villwock**

Collaborator: Carnegie Learning

Behavior, Affect, and Success:
A Multimodal Analysis of Digital Learning



10:35am

Christopher Janssen

Collaborator: Dr. John Curtin

From Local to Production:
A Multi–Study PostGIS Platform
for AUD Relapse Research



10:45am

Tiki Zhai

Collaborators: Dr. David Plante & Dr. Jesse Cook

Influence of Competition on Nighttime
Sleep and Heart Rate Metrics:
A Longitudinal Investigation in Collegiate
Women's Volleyball Athletes



SCHEDULE OF EVENTS

Session 2: Data Science Approaches to Mental Health

11:00am

**Kyoheon Hwang, Sadaf Nasir,
and Nancy Xu**

Collaborator: Healthy Minds Innovations

Mapping the Journey to Well-being:
Insights from a Mental Health App



11:20am

Huda Ahmed

Collaborator: Dr Brooke Ammerman

Identifying Predictors Of Recent Nonsuicidal
Self-Injury: A Machine Learning Approach



11:30am

Miao Yu and Jessica Tanchone

Mentor: Coco Yu

A Machine Learning Analysis of Risk
Factors for Somatic Symptoms in the
PHQ-15 Among Young Adults



11:45am

Wanshu He

Mentor: Siddharth Suresh

Neural Fingerprints of Depression
in the Tech Industry



PRESENTATION SCHEDULE

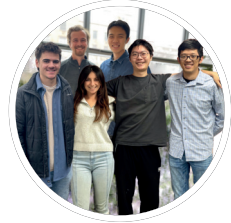
Session 3: Behavioral Data Science in Technology & Industry

12:00pm

**Lauren Khoury, Ho Wong, Jake Murray,
David Jolly, Andy Vo, and Dusk Zhang**

Collaborator: American Family Insurance

Simulating Hurricane Migration



12:30pm

Yuyang Shen and Will Yin

Collaborator: Dr. Nick Buttrick

Google Search Trends as a Predictor of
Firearm Sales: A Multilevel Analysis and
Machine Learning Framework for National
and State-Level NICS Background Checks



12:45pm

Chloe Lau and Nancy Xu

Mentor: Luhang Sun

Language, Emotion, and Collective
Action: Evidence From Wisconsin
Women's Organization on Facebook

