

# The Advances in Social Genomics Conference (TAGC)

June 8<sup>th</sup>-9<sup>th</sup>, 2023

Tripp Commons at the Memorial Union (800 Langdon St., Madison, WI, 53706)

## Schedule (subject to change)

### Day 1: Thursday, June 8<sup>th</sup>, 2023

- **9:00am** – Distinguished Speaker Presentation; Chair – Jason Fletcher (*University of Wisconsin-Madison*)
  - Dorothy Farrar-Edwards (*University of Wisconsin-Madison*), "All of Us"

~Breakfast will be served~

- **10:00am** – Session 1 – New Directions in Polygenic Score Analysis; Chair – James Li (*University of Wisconsin-Madison*)
  - Robel Alemu (*University of California-Los Angeles*), "Relative predictive performance of polygenic indexes (PGIs) across diverse ancestral populations"
  - Brooke Sasia (*University of Wisconsin-Madison*), "Examining a mechanism of polygenic scores on developmental trajectories of externalizing behaviors"
  - Wei Zhao (*University of Michigan*), "Examining direct and indirect genetic effects on depression in children and adolescents in the Panel Study of Income Dynamics (PSID)"

~15-minute break~

- **11:15am** – Session 2 – Using Genetics to Answer Social Science Questions; Chair – Jason Fletcher (*University of Wisconsin-Madison*)
  - Marta Bilghese (*University of Southern California*), "The Influence of Assortative Mating on Studies of Education and Health"
  - Jonathan Beauchamp (*George Mason University*), "Adverse selection in insurance markets due to genetic prediction"
  - David Hugh-Jones (*unaffiliated scholar*), "Trading social status for genetics in marriage markets: evidence from Great Britain and Norway"

- **12:15pm** – Keynote Speaker Presentation
  - Kathleen Mullan Harris (*University of North Carolina-Chapel Hill*), Add Health in the Age of Social Genomics

~Lunch will be served~

- **1:30pm** – Session 3 – Family Based Analysis; Chair – Qiongshi Lu (*University of Wisconsin-Madison*)
  - Tammy Tan (*National Bureau of Economic Research*), "Meta-analysis of family-based genome-wide association studies"
  - Junming Guan (*University of California, Los Angeles*), "Novel estimators for family-based genome-wide association studies increase power and robustness"
  - Zhongxuan Sun (*University of Wisconsin-Madison*), "Pervasive biases in GWAS using family history of Alzheimer's disease as proxy phenotypes"

~15-minute break~

- **2:45pm** – Session 4 – Advances in Biological Aging; Chair – Lauren Schmitz (*University of Wisconsin-Madison*)
  - Jennifer Smith (*University of Michigan*), “Epigenetic Biomarkers of Socioeconomic Status are associated with Age-Related Chronic Diseases and Mortality in Older Adults”
  - Gracie Venechuk (*University of Wisconsin-Madison*), “The Effect of County-Level Recession Intensity on Accelerated Epigenetic Aging: Evidence from the 2008-2010 Recession”
  - Kyle Bourassa (*Duke University*), “Treatable health conditions during adolescence and accelerated aging at midlife”
- **4:00pm** – Conference Mixer at the Memorial Union Terrace
- **6:00pm** – Conference Dinner at Cooper’s Tavern (20 W. Mifflin St., Madison, WI, 53703)

## Day 2: Friday, June 9<sup>th</sup>, 2023

- **9:00am** – Keynote Speaker Presentation; Chair – Jason Fletcher (*University of Wisconsin-Madison*)
  - Konrad Karczewski (*Massachusetts General Hospital*), “Diversity improves all aspects of genomic research: lessons from 700,000 human exomes, genomes, and genotypes”

~Breakfast will be served~

~15-minute break~
- **10:15am** – Session 5 – Biological Aging and EWAS; Chair – Lauren Schmitz (*University of Wisconsin-Madison*)
  - Eric Klopock (*University of Southern California*), “Development of a novel transcriptomic measure of aging: Transcriptomic Mortality-risk Age (TraMA)”
  - Connor Martz (*University of Texas at Austin*), “Primary School Context and Accelerated Epigenetic Aging in Black and White Children”
  - Lauren Opsanick (*University of Michigan*), “Epigenome-Wide Association Study of Long-term Psychosocial Stress in Older Adults”

~15-minute break~
- **11:30am** – Session 6 – Innovations in GxE; Chair – Qiongshi Lu (*University of Wisconsin-Madison*)
  - Evelina Akimova (*University of Oxford*), “Gene-X environment analysis supports protective effects of eveningness chronotype on self-reported and actigraphy-derived sleep duration among regular night shift workers in the UK Biobank”
  - Yeongmi Jeong (*University of Georgia*), “The Effect of Peers' Genetic Predisposition to Depression on Own Mental Health”
  - Qiongshi Lu (*University of Wisconsin-Madison*), “Reimagining Gene-Environment Interaction Analysis for Human Complex Traits”
- **12:30pm** – Lunch break independently (local options will be suggested!)
- **1:30pm** – Session 7 – New Directions in Social Genomics; Chair – James Li (*University of Wisconsin-Madison*)
  - Gabrielle Benoit (*University of California, Santa Barbara*), “Socio-demographic Patterning of Microplastic Burden in the U.S.”
  - Moiz Bhai (*University of Arkansas at Little Rock*), “The Effect of Scope of Practice Reform for Nurse Practitioners on Diabetic Costs”
- **2:30pm** – Conclusions and Group Discussion

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