



## A LETTER OF THE DIRECTOR

Dear colleagues, collaborators and friends,

We are excited to announce the final schedule for the ARISE 2025 Webinar Series—an initiative of the ASA Statistics and Data Science in Aging Interest Group designed to spotlight work by early career researchers at the intersection of aging, statistics, and data science.



We invite you to join us for this exciting new project. Please bring your inquisitive and curious mind and let's support the new generation of scientists that will help us keep moving toward a world without neurodegeneration where we can enjoy healthy and productive aging.

This year's selected ARISE Finalists represent a range of projects, from novel statistical methodologies and proteomic biomarkers to applications in digital health, Alzheimer's disease, and longitudinal modeling. The series reflects the diversity and depth of emerging research in our field and promises engaging discussions on the future of aging science.

The series will run from August to November 2025, with each session featuring a live presentation and Q&A.

Topics include:

- \* Bias analysis in psychosocial exposures
- \* Proteomic signatures of frailty
- \* Postmortem imaging for biomarker development
- \* Modeling chronic disease transitions
- \* Aging-focused multi-omics clustering
- \* Joint quantile regression
- \* Digital health detection algorithms
- \* Compression of morbidity in aging interventions
- \* Innovations in Alzheimer's clinical trial design
- \* Canonical correlation analysis for longitudinal data
- \* Engineering-inspired degradation models in clinical research
- \* Evaluating missing data methods in EHR

All sessions are free and open to the public. Feel free to share the program with colleagues and collaborators.

Warm regards,

Ana W. Capuano

Professor, University of Chicago




Education Officer

ASA Statistics and Data Science in Aging Interest Group

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## ARISE – Fall 2025 Webinar Series

Date	Presenter	Title
August 27- Noon to 1 PM CT - location: <a href="#">Zoom</a>		
	<b>Tianying Wang, PhD</b> Assistant Professor Dep. of Statistics Colorado State University Mentors: Dr. Wei & Dr. Ionita-Laza	Joint Quantile Regression with Latent Clustering for Age-Dependent Genetic Effects on Multiple Traits
	<b>Owen Li</b> PhD Student STOR-i Centre for Doctoral Training Lancaster University Mentor: Dr. Rebecca Killick	Modelling routine behavior using changepoints
	<b>Molly Ehrig, MS</b> Biostatistician II Dep. of Biostatistics and Data Science Wake Forest University Mentor: Dr. Jaime Speiser	Imputation and Missing Indicators for Handling Missing Longitudinal Data: Data Simulation Analysis Based on Electronic Health Record Data
September 8 - 11 AM to noon CT		
	<b>Pulkit Khandelwal, PhD</b> Postdoctoral researcher Dep. of Radiology University of Pennsylvania Mentor: Dr. Paul Yushkevich	Postmortem image analysis of the human brain to characterize Alzheimer's disease and related dementias
	<b>Boyi Hu</b> PhD Candidate Dep. of Biostatistics University of Michigan Mentors: Dr. Lee & Dr. Wang	TPClust: Temporal Profile-Guided Subtyping Using High-Dimensional Omics Data
	<b>Julia Gallini</b> PhD candidate Dep. of Biostatistics Boston University Mentor: Dr. Yorghos Tripodis	Cognitive Factor-Based Selection Increases Power in Alzheimer's Dementia Randomized Clinical Trials
An education program of the American Statistical Association – SDSA. ARISE Director and ASA SDSA officer: Prof. Ana Capuano, U of Chicago – <a href="mailto:capuano@uchicago.edu">capuano@uchicago.edu</a> ASA Associate Executive Director: Donna LaLonde - <a href="mailto:donnal@amstat.org">donnal@amstat.org</a> Link: <a href="https://amstat.zoom.us/j/84186505606?pwd=pMZ4DV1KklbK3Jd0G6EnBUsAFebtiD.1">https://amstat.zoom.us/j/84186505606?pwd=pMZ4DV1KklbK3Jd0G6EnBUsAFebtiD.1</a>		



## ARISE – Fall 2025 Webinar Series

Date	Presenter	Title
October 29- Noon to 1 PM CT		
	<b>Xuexin Yu, PhD</b> Postdoctoral Research Scientist Mailman School of Public Health Columbia University Mentor: Dr. Lindsay Kobayashi	Could differential underreporting of loneliness between men and women bias the gender-specific association between loneliness duration and memory aging? A probabilistic bias analysis of effect modification
	<b>Margaret Gacheru</b> PhD Student Dep. of Biostatistics Columbia University Mentor: Dr. Seonjoo Lee	Bayesian Longitudinal Canonical Correlation Analysis
	<b>Matthew R. Scott</b> PhD Candidate Dep. of Biostatistics University of Washington Mentor: Dr. Yorghos Tripodis	Assessment of Wiener Process Degradation Models with Application to Amyotrophic Lateral Sclerosis Decline
November 3 - 11 AM to noon CT		
	<b>Jiachen Chen</b> PhD Candidate Dep. of Biostatistics University of North Carolina at Chapel Hill Mentor: Dr. Kathryn L. Lunetta	Proteomic Signature of Frailty Pace Reflects Biological Aging and Predicts Disease and Mortality
	<b>Alessandra Pescina, MS</b> Research Assistant Aging research center Karolinska Institutet Mentor: Dr. Caterina Gregorio	Multi-state models with intermittent observation scheme in the aging research field
	<b>Deependra Kaji Thapa, PhD</b> Postdoctoral Research Fellow Medical School, sDivision of Aging Harvard University Mentor: Dr. David B. Allison	Life-extending interventions and compression of morbidity: A case example demonstrating a rigorous statistical approach

An education program of the American Statistical Association – SDSA

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ASA Associate Executive Director: Donna LaLonde - [donnal@amstat.org](mailto:donnal@amstat.org)

Link: <https://amstat.zoom.us/j/84186505606?pwd=pMZ4DV1KklbK3Jd0G6EnBUsAFebtiD.1>