Emmett Baird Kendall

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Professional Positions

ASSISTANT PROFESSOR (TENURE-TRACK),   *2026 - Present*
Department of Mathematical Sciences, University of Texas at Dallas

RESEARCH COLLABORATOR,   *2023-2025*
Kern Center for the Science of Health Care Delivery, Mayo Clinic

GRADUATE RESEARCH INTERN,   *Summer 2023*
Kern Center for the Science of Health Care Delivery, Mayo Clinic
Advisor: Dr. Curtis B. Storlie

Education

NORTH CAROLINA STATE UNIVERSITY   *2020-2025*
Ph.D. in Statistics
Advisor: Dr. Jonathan P. Williams

UNIVERSITY OF FLORIDA   *2017-2020*
B.S. in Mathematics, Minor in Statistics
Advisor: Dr. Joseph Antonelli

Publications

⋆ *undergraduate student working under my supervision*
† *graduate student working under my supervision*

5. A. Basarkar⋆, **E. B. Kendall**, D. Randahl, J. P. Williams, and G. H. Hermansen (2026+). Conflict Forecasting via Conformal Prediction for Markov Processes. **In preparation**.

4. **E. B. Kendall**, J. P. Williams, C. B. Storlie, M. A. Radosevich, E. D. Wittwer, and M. A. Warner (2026+). Early identification of physiological shock in intensive care units via Bayesian regime switching models. **In preparation**.

3. **E. B. Kendall**, B. Beck, and J. Antonelli (2025). Robust inference for geographic regression discontinuity designs: assessing the impact of police precincts. **Journal of the Royal Statistical Society: Series A**.

2. V. V. Volpe, **E. B. Kendall**, A. N. Collins, M. G. Graham, J. P. Williams, and S. J. Holochwost (2025). Prior exposure to racial discrimination and patterns of acute parasympathetic nervous system responses among black adults. **Psychophysiology**.

1. **E. B. Kendall**, J. P. Williams, G. H. Hermansen, F. Bois, and V. H. Thanh (2025). Beyond time-homogeneity for continuous-time multistate Markov models. **Journal of Computational and Graphical Statistics**.

Funding	2. Conference and Travel Award. NC State Graduate Student Association, 2025
	1. Seed grant ("Hidden Markov methodology for assessing racial stressors"). NC State Data Science Academy, 2023-2024

Presentations

6. Organizer and Speaker, Topic-Contributed Paper Session: "Applications and Advances of Regime Switching Models." *Joint Statistical Meeting*, August 2025

5. Speaker, Seminar: "Beyond time-homogeneity for continuous-time multistate Markov models" *University of Oslo*, May 2025

4. Speaker, Invited Paper Session: "Innovative theory and applications of hidden Markov models for longitudinal data in medicine" *International Biometric Conference*, December 2024

3. Speaker, Topic-Contributed Paper Session: "Application of Data Science Models in Health Care: Development, Implementation, Evaluation, and Maintenance." *Joint Statistical Meeting*, August 2024

2. Contributed Poster: "Hidden Markov methodology for identifying physiological states of shock in intensive care units." *Joint Statistical Meeting*, August 2023

1. Flash Talk: "Testing local treatment effects using regression discontinuity designs that are robust to a violation of causal assumptions." *European Causal Inference Meeting*, July 2021

Teaching

Mathematical Statistics (STAT 4352), *UT Dallas*	*Spring 2026*
Introduction to Statistics (ST 311), *NC State*	*Fall 2021, Spring 2023*
Statistics Ph.D. Qualifying Exam Prep Course, *NC State*	*Summer 2022*

Departmental Service

Data Science Committee, *UT Dallas*	*Spring 2026*

Professional Service

Reviewer for *Journal of the Royal Statistical Society: Series C*	1 manuscript
Reviewer for *Journal of Statistical Theory and Practice*	1 manuscript

Session Chair "Advances in Bayesian Variable Selection." *Joint Statistical Meeting*, August 2024

Awards

2nd place, NC State's Graduate Student Research Symposium	*2024*
Mu Sigma Rho (Statistics Honor Society)	*2021*
Phi Beta Kappa	*2020*