

Elizabeth (Betsy) Bersson

<https://betsybersson.github.io/>

ebersson@mit.edu

678-848-7675

EMPLOYMENT

- **Massachusetts Institute of Technology** Cambridge, MA
Postdoctoral Researcher, with Tamara Broderick September 2024 – present
- **Duke University** Durham, NC
Instructor of Record, STA 199: Introduction to Data Science and Statistical Thinking May 2024 - July 2024
- **NIEHS/NIH; Biostatistics and Computational Biology Branch** Durham, NC
Graduate Summer Intern June 2023 – July 2023
- **The Federal Reserve Board; Macroeconomics and Quantitative Studies** Washington, DC
Senior Research Assistant June 2017 – June 2019

EDUCATION

- **Duke University** Durham, NC
Statistical Science, PhD Aug. 2019 – May 2024
- **The University of Alabama** Tuscaloosa, AL
Applied Statistics, MS Jan. 2016 – May 2017
Mathematics, BS with honors, minor in Economics Aug. 2013 – May 2017

PUBLICATIONS AND PREPRINTS

- ‘Covariance Meta Regression’, **E. Bersson**, K. Hoffman, H. Stapleton, and D. Dunson, *R&R at Annals of Applied Statistics*, 2025.
- ‘Contributed Discussion to ‘Sparse Bayesian factor analysis when the number of factors is unknown’, by Frhwirth-Schnatter, S., Hosszejini, D., and Lopes, F. L.’, **E. Bersson**, *Bayesian Analysis*, 20(1): 322:324, 2025.
- ‘Frequentist Prediction Sets for Species Abundance Using Indirect Information’, **E. Bersson** and P.D. Hoff, *Journal of the Royal Statistical Society: Series A, with discussion*, 2024.
- ‘Bayesian Covariance Estimation for Multi-group Matrix-variate Data’, **E. Bersson** and P.D. Hoff, *Bayesian Analysis*, 2024.
- ‘Optimal Conformal Prediction for Small Areas’, **E. Bersson** and P.D. Hoff, *Journal of Survey Statistics and Methodology*, 12(5): 1464-1488, 2024. **2023 GSS/SRMS/SSS Student Paper Competition Winner**
- ‘Bounded Rationality, Sticky Prices, and the Zero Lower Bound’, **E. Bersson**, P. Hürtgen, and M. Paustian, *Journal of Money, Credit, and Banking*, 56(2-3): 365-393, 2023.

TALKS AND POSTERS

- ‘Covariance Meta Regression’, invited talk with Giovanni Parmigiani’s lab at Harvard University, Dana Farber Cancer Institute, 2025
- ‘Frequentist Prediction Sets for Species Abundance Using Indirect Information’, invited talk for the Slovenian Month of Science, an initiative of the Slovenian government, 2025
- ‘Covariance Meta Regression’, invited talk at University of Rhode Island Department of Computer Science and Statistics seminar, 2025
- ‘Covariance Meta Regression’, contributed talk at BNP-14, 2025
- ‘Covariance Meta Regression’, invited talk at University of Massachusetts, Amherst Department of Statistics seminar, 2025

- ‘Covariance Meta Regression’, invited talk at IDWSDS, 2024
- ‘Frequentist Prediction Sets for Species Abundance Using Indirect Information’, with discussion, invited talk with travel support at RSS Annual Conference, 2024
- ‘Covariance Meta Regression’, contributed talk at ISBA, 2024
- ‘Bayesian Covariance Estimation for Multi-group Matrix-variate Data’, invited talk at ISNPS, 2024
- ‘Bayesian Covariance Estimation for Multi-group Matrix-variate Data’, contributed talk at BAYSM, 2023
- ‘Bayesian Covariance Estimation for Multi-group Matrix-variate Data’, contributed poster with travel grant at the New Frontiers in Reliability and Risk Analysis Symposium: A Tribute to Nozer D. Singpurwalla, 2023
- ‘Optimal Conformal Prediction for Small Areas’, contributed talk with travel grant at JSM, 2023
- ‘Optimal Conformal Prediction for Small Areas’, invited poster with travel grant at Notre Dame Future Faculty Workshop, 2023
- ‘Optimal Conformal Prediction for Small Areas’, contributed poster with travel grant at ISBA, 2022
- ‘Supporting mentored undergraduate research in statistics ’ with Joan Combs-Durso, Yue Jiang, and Edric Tam, contributed talk at ECOTS, 2022

SERVICE

- Mentor for a PhD student’s master’s thesis, MIT, ongoing.
- Reviewer for ASA 2026 SBSS Student Paper Competition.
- BAYSM scientific committee, 2025.
- Organizer of an invited session on citizen science data analysis for the RSS 2025 International Conference.
- Reviewer for the ASA 2025 SBSS Student Paper Competition.
- Co-organizer of Women in Statistics events, Department of Statistical Science, Duke University, 2022-2024.
- Graduate Consultative Committee, Department of Statistical Science, Duke University, 2022-2023.
- Mentor for the Undergraduate Thesis Proposal Writing Workshop, Duke University, May 2024.
- Project manager for the Mental Health and the Justice System group at Data+, Duke University, summer 2022.
- Graduate mentor for an independent study on Bayesian modeling, Duke University, spring 2022.
- Mentor for the Undergraduate Introduction to Research in Statistical Science Workshop, Duke University, May 2021.

TEACHING EXPERIENCE

- **Instructor** Duke University
STA 199: Introduction to Data Science and Statistical Thinking *Summer 2024*
- **Teaching Assistant**
Stat Inference, Regression Analysis (Head TA), Case Studies, *Duke University*
Statistical Consulting, Data Science (Head TA)
Discrete Mathematics, Applied Diff Eq II *The University of Alabama*

HONORS AND AWARDS

- Travel grant to attend *Preparing to Teach Statistics Workshop* at University of Toronto Scarborough, 2023
- ASA GSS/SRMS/SSS Student Paper Competition Award Winner with travel award, JSM 2023
- Funded invitation to attend Future Faculty Workshop, Notre Dame 2023
- Junior researcher travel award, ISBA 2022
- Funded by NSF TRIPODs grant, Fall 2021
- Applied Statistics Masters Student of the Year, The University of Alabama 2017