

EDUCATION

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

WORKING PAPERS

- ‘Optimal Conformal Prediction for Small Areas’ with Peter Hoff, submitted
- ‘Bounded Rationality, Sticky Prices, and the Zero Lower Bound’ with Matthias Paustian and Patrick Hürtgen

HONORS AND AWARDS

- Funded by NSF TRIPODs grant, Fall 2021

TEACHING AND MENTORSHIP EXPERIENCE

- **Project Manager** Duke University
Mental Health and the Justice System, Data+ *Summer 2022*
 - Mentored a team of 3 undergraduates on a research project exploring the relationship between mental health services and the justice system in Durham County, NC.
- **Graduate Mentor** Duke University
INvestigating Febrile Deaths In Tanzania (INDITe) *Spring 2022*
 - Estimating disease etiology for participants who experienced febrile deaths in Tanzania using a nested partially latent class model.
 - Worked with an undergraduate statistician completing a senior-year independent study.
- **Graduate Mentor** Duke University
Undergraduate Introduction to Research in Statistical Science Workshop *May 2021*
 - Mentored a team of five undergraduates with varying degrees of research experience on a research project assessing the effectiveness of two common drugs used to prevent opioid relapse.
 - The project won 1st place in the USCLAP competition.
- **Teaching Assistant** Duke University
Stat Inference, Regression Analysis, Case Studies *Fall 2019-Fall 2021*
- **The University of Alabama** Tuscaloosa, AL
Grader - Discrete Math, Applied Diff Eq II *Spring 2016 - Spring 2017*
Math Lab Tutor- all levels *Spring 2016 - Spring 2017*

PRESENTATIONS

- ‘Supporting mentored undergraduate research in statistics ’ with Joan Combs-Durso, Yue Jiang, and Edric Tam, contributed talk at ECOTS 2022.

PROFESSIONAL EXPERIENCE

- **The Federal Reserve Board, Macroeconomics and Quantitative Studies Section** Washington, DC
Senior Research Assistant June 2017 - June 2019
 - Provided research assistance to senior economists that focused on a variety of macroeconomic theory topics.
 - Collaborated on a FRB-published memo that evaluates and summarizes the effects of forward guidance on commonly used models for policy makers, with Matthias Paustian and John Roberts.
 - Utilized numerical methods to improve the convergence likelihood and decrease run time to solve a nonlinear system of equations that models the banking sector. Converted the model to Fortran using OpenMP and built a multi-language infrastructure to compare parameter calibrations and evaluate results.
 - Started an academic reading group to discuss economic articles with colleagues on a bimonthly basis.

FedEx Services

Sales Incentives and Analytics Intern

Memphis, TN

Summer 2016

- Analyzed sales incentives and performance data using SQL to determine the effectiveness of sales compensation plans.
- Created a self-updating dashboard that is used to help senior level staff form more effective sales incentives structures.

COMPUTER SKILLS

- **Languages:** Fortran, Mathematica, Matlab, R, SAS, SQL
- **Technologies:** Git, Latex, Linux, OpenMP