NAOMI GIERTYCH
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EDUCATION

North Carolina State University, Statistics PhD — August 2019-May 2023 (Expected)

University of Michigan, Statistics Masters — August 2017- May 2019
GPA: 3.864

Emory University, B.S in Mathematics; B.A in Economics — August 2011-May 2015
GPA: 3.534

AWARDS

Outstanding Teaching Award from the UM Department of Statistics, 2017-2018

WORK EXPERIENCE

Research Assistant for Professor Jonathan Williams, May 2020-Present

- Developing a Bayesian vector autoregressive model for high-dimensional time series with heavy tails for use in economic forecasting
- Studying current methods in exoplanet detection
- Presented a poster at the Statistical Challenges in Modern Astronomy VII conference

Research Assistant for Professor Yang Chen, May 2018-May 2019

- Developed a random forest and neural network in python to predict ion events in Earth's atmosphere using a dataset with over 300,000 observations

The Brattle Group, Research Analyst, June 2015-August 2017

- Collaborated with team members to develop economic analyses for testimony in regulatory proceedings and provide guidance to clients
- Contributed to conceptual development and implementation of models
- Managed internal audits, production of deliverables, and task assignments
- Prepared demonstratives and drafted text for expert testimony
- Supported expert witnesses during depositions, hearings, and client meetings
- Major analytical work: Performed analyses in STATA to determine differences in energy prices and use for over 20 aggregated regions of the U.S.; Conducted analyses in SAS and STATA to determine the affect of anti-competitive actions on energy market prices

Work-Study Scholarly Inquiry and Research at Emory (SIRE) Research Partners Program, August 2012-May 2015

- Performed data collection using Excel and analysis using STATA to discern the deterrent affect of capital punishment in Illinois using a differences-in-differences approach
- Developed a project seeking to identify genetic factors correlating with pancreatic, bladder, and/or breast cancer.
- Presented both projects in poster sessions

SKILLS

STATA (Advanced), SAS (Intermediate), R (Advanced), Python (Intermediate)