

PETER IYER

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EXPERIENCE

University of Georgia *Phd Candidate*

Athens, GA
April 2023 | July 2024

- Employed machine learning methods (e.g., Lasso, Ridge, etc) to identify the most relevant variables out of a dataset with over 1000 variables and 23 million observations
- Deployed causal inference experiments (e.g. Diff-in-Diff) to uncover the impact of state-level policies (my work shows a 1% increase in minimum wages leads to a 0.44% increase in reservation wages)
- Compiled novel survey data on unemployment insurance recipients by establishing connections with the Bureau of Labor Statistics
- Processed 500k+ observations for experimental research design (e.g. combined multiple data sources, grouped and filtered observations, etc for Triple-diff designs, event studies, among others) in an HPC environment
- Presented findings through academic articles, presentations, and visualizations (graphs, choropleth maps, etc) to inform decision-making and policy development at professional conferences
- Conducted replication analysis by deploying national economic models at the state level, uncovered model sensitivity to share of workforce on furlough; also translated 20k+ lines of Stata code into R
- Wrote structural and reduced-form models to simulate/predict market conditions (e.g. cryptocurrency pricing, labor markets, etc)

University of Georgia *Research Assistant*

Athens, GA
August 2019 | May 2020

- Developed and implemented programs to estimate target parameters using five different estimators in a High-Performance Computing (HPC) environment, using data with over 10 million observations and 1000 variables
- Translated multiple projects with over 10,000 lines of code from one language to another (e.g. from Python to R and Stata)
- Wrote programs to automatically update over 100 graphs, choropleth maps, and presentation slides with new data from API queries periodically
- Collected, cleaned and, analyzed over 20 years of Census data with dozens of variables
- Collaborated with cross-functional teams to integrate data analysis into broader strategic initiatives with versioning services like Git/Mercurial
- Refereed journal submissions for The Economic and Labour Relations Review

University of Georgia *Teaching Assistant*

Athens, GA
August 2020 | July 2024

- Wrote web-scrappers to compile 1000+ data points for in-class presentations
- Helped compile 200+ lecture notes for distribution using programs like R/Sweave and LaTeX
- Assisted in the preparation of lecture notes by writing summaries of 30+ research papers
- Produced histograms to help communicate class performance across tests, assignments, and quizzes
- Graded and returned tests, quizzes, and assignments within 2 days for multiple classes with 30+ students
- Held lectures and remedial classes with over 30 students

Allsec Technologies *Analyst*

Irving, TX
August 2016 | August 2017

- Assist with publicity and outreach via social networking services (e.g. LinkedIn), and helped develop 100+ connections
- Compiled market research by scraping online resources into Excel data for marketing teams
- Compiled and presented reports for disseminating actionable insights

EDUCATION

University of Georgia PhD Economics	Athens, GA July 2019 July 2024
Stony Brook University MA Economics	Stony Brook, NY August 2017 May 2019
Boston University BA Economics, and Math	Boston, MA August 2013 May 2016

SELECTED PROJECTS/ PAPERS

Effects of minimum wage reform on reservation wages <i>R, Python, Latex, SLURM, Excel</i> Used quasi experimental designs (stacked event study designs, triple diff designs, etc) to show a 1% increase in minimum wages lead to a 0.44-0.57% increase in reservation wages (the lowest wages a worker will accept). These results reflect broader market conditions, with tighter labor markets and larger minimum wage increases associated with stronger reservation wage responses. Accepted for presentation at the Midwest Economics Association 2024 conference, and the Western Economic Association International 99th Annual conference.
Effects of unemployment insurance generosity on unemployment <i>R, Stata, Latex, Sweve</i> Replication of Gallant et. al 2020, in which I translated their Stata code into R, implemented their DMP model at the state level, and showed that terminating enhanced unemployment insurance early led to a 5% fall in unemployment. Also found model predictions were sensitive to the share of workforce in furlough.

AWARDS AND HONORS

Marty Weinbaum Outstanding Academic Achievement Award Given to a student with the highest overall GPA	Stony Brook University May 2019
Alvin B Biscoe Memorial Scholarship	University of Georgia May 2023

REFERENCES

Available upon request