

HENRY WOODYARD

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Economist

EDUCATION

Ph.D. | *Economics, 3.76 GPA*

Aug. 2018 – May 2024 (expected)

Georgia State University

Atlanta, Georgia

- Fields of Specialization: Labor Economics, Urban Economics
- **Used SQL, Python, and Stata to clean, manipulate, and analyze nearly a terabyte of labor market data** during the course of dissertation research, requiring intimate knowledge of large file storage/access, distributed computing, and other big data programming practices
- Relevant Coursework
 - * Machine Learning
 - * Econometrics I & II
 - * Advanced Econometrics
 - * Bayesian Econometrics
 - * Big Data Programming
 - * Data Management and Analysis

Bachelor of Arts | *Major: Economics, Minor: Mathematics*

Aug. 2014 – May 2018

The University of Southern Mississippi

Hattiesburg, Mississippi

RESEARCH

"Learning-Mode Choice, Student Engagement, and Achievement Growth During the COVID-19 Pandemic". *AERA Open*, 8. 2022.

(with Jennifer Darling-Aduana, Tim Sass, and Sarah Barry)

Publication

"Skills, Matching, and Skill Specificity Across Space"

(with Carlianne Patrick)

Working Paper

"Evaluating the Efficacy of the Georgia Pre-K Program Using a Lottery"

Working Paper

"Large Firm Incentives as a Place-Based Policy: Who Benefits?"

(with Carlianne Patrick)

Work in Progress

WORK EXPERIENCE

Graduate Research Assistant

Fall 2020 - Ongoing, 16 hours per week

Dr. Tim Sass, Metropolitan Atlanta Policy Lab for Education

Atlanta, GA

- Created analysis datasets from restricted and confidential de-identified student-level data using Stata and R
- Used Stata to develop statistical models to accurately estimate the effects of education policy on student outcomes
- Drafted project proposals, presentations, and updates, and wrote policy reports for both technical and lay audiences

Graduate Research Assistant

Fall 2018 - Spring 2020, 16 hours per week

Dr. Carlianne Patrick, Georgia State University

Atlanta, GA

- Used R to construct research-ready datasets from a variety of unclean and unstructured sources, including geospatial data

Research Assistant

June 2017 - August 2017, 20 hours per week

SchoolStatus

Hattiesburg, MS

- Used R to create Monte Carlo models of variation of student responses to state testing changes
- Developed models relating spending behaviors of college students to academic outcomes
- Generated reports, graphs, and tables for display to clients

Research Assistant

June 2016 - August 2016, 20 hours per week

SchoolStatus

Hattiesburg, MS

- Used R to generate machine learning models for predicting dropout risk for students
- Introduced sources of geospatial variation to improve existing models

HONORS, GRANTS, AND AWARDS

Labor Studies Grant (\$1,500) for "Skills, Matching, and Skill Specificity Across Space" January 2021
Georgia State University

University Fellowship Fall 2020 - Present
Georgia State University

Mark Klinedinst Distinguished Graduate Award in Economics Spring 2018
University of Southern Mississippi

Donald Drapeau Undergraduate Research Prize Spring 2018
University of Southern Mississippi

Atly Graham Memorial Prize in Economics Fall 2017
University of Southern Mississippi

SKILLS

- Causal Inference Models
 - * Linear regression, regression discontinuity, difference-in-differences, probability models, fixed effects models, instrumental variables
- Machine Learning
 - * LASSO, random & causal forests, topic modeling, natural language processing
- Network Analysis & Network Statistics
- Stata
- Python - including pandas, dask, pySpark, & scikit-learn
- R - including dplyr, tidyr, & ggplot2
- SQL
- Distributed computing - locally, with Microsoft Azure, and on with a SLURM-managed cluster
- Management of big data