

MORGAN HOLLAND

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EDUCATION

Florida State University, COSSPP 2022 (*expected*)
Doctorate of Philosophy in Economics

University of South Carolina, Moore School of Business 2015
Master of Arts in Economics

Mississippi College, School of Business 2010
Bachelor of Science in Business Administration

RESEARCH EXPERIENCE

Economics of Automation

- Crafted literature reviews on the economics of automation, substitution between labor and capital in economic theory and in practice, and optimal capital taxation.
- Developed task-based growth models investigating the relationship between automation, political economy, and economic growth and inequality.
- Investigated the relationship between automation and real business cycles using a dynamic stochastic general equilibrium (DSGE) model.
- Used log-linearization and value function iteration solution methods for DSGE models.

The Option Value of Intermediate Payments in Relationship Banking

- Developed a two-period optimal debt model to investigate the role of intermediate payments in standard debt contracts.
- Employed numerical techniques to solve the model, including
 - * adaptive Gauss-Kronrod and adaptive cubature algorithms for numerical integration,
 - * Newton with Trust Region and BFGS algorithms for maximizing continuous functions,
 - * Nelder-Mead algorithm for maximizing discontinuous functions.

Other Research

- Investigated trends and links between availability and use of credit and real business cycles using multivariate time-series methods.
- Analyzed factors contributing to recidivism in South Carolina prisons using survival analysis methods.
- Determining the impacts on employment and earnings of the Americans with Disabilities Act on people with disabilities from minoritized groups through difference-in-differences.

TEACHING EXPERIENCE

Florida State University 6 semesters
Instructor, Analysis of Economic Data, Econometrics Tallahassee, FL

- Developed custom instruction materials for statistics focusing on economic data and econometrics.
- Integrated R programming to teach students practical data management and analytical tools.
- Engaged with students using real-world examples of using data analysis and econometrics to answer economic questions.
- Covered subjects spanning from introductory statistics topics to advanced topics including

- * Graphical and numerical techniques for summarizing data,
- * Cleaning and preparing data for analysis,
- * Probability theory and hypothesis testing,
- * Linear regression for prediction and causal analysis,
- * Extensions and variations on linear regression, including correcting for heteroskedasticity, limited dependent variables, and longitudinal data.

OTHER WORK EXPERIENCE

University of South Carolina

Research Assistant

September 2013 - December 2013

Columbia, SC

- Located and retrieved ownership data from Initial Public Offering (IPO) prospectuses.
- Constructed custom spreadsheets of IPO data.
- Performed literature searches for scholarly articles on several subjects related to corporate finance.

South Carolina Office of Regulatory Staff

Auditor

July 2012 - September 2013

Columbia, SC

- Advocated on behalf of the public in utility rate case proceedings before the South Carolina Public Service Commission.
- Audited utility rate case filings to verify the accuracy of financial data.
- Recommended adjustments to test-year revenue requirement analyses based on company financial data and rate case filings.
- Crafted written testimony to be filed with the South Carolina Public Service Commission.
- Reviewed nuclear plant construction invoices for compliance with the South Carolina Base Load Review Act and consistency with company financial documents.
- Examined telecommunications company filings and financial documents for compliance with telecommunications law.

Mississippi Department of Finance and Administration

Accountant/Auditor

January 2011-July 2012

Jackson, MS

- Pre-audited payments to State Treasurer for errors.
- Assisted state agencies in completing payments to the State Treasury.
- Approved transactions in a computerized accounting system.
- Verified accuracy of daily deposits to the State Treasury.

COMPUTER PROFICIENCIES

Programming

- *Expert:* R, Julia
- *Intermediate:* Matlab, Stata
- *Beginner:* Python (Numpy, Pandas)

Spreadsheet and Database

- *Intermediate:* Excel
- *Beginner:* SQL, MongoDB

Document and Presentation Creation, Literate Programming

- L^AT_EX, Lyx, R Sweave, R Markdown, Jupyter, Word, Powerpoint

Version Control

- [GitHub](#)

ACADEMIC RESEARCH

Working Papers

- *Growth, Income Distribution, and Political Economy Implications of Automation* (With Manoj Atolia and Jonathan Kreamer)
- *The Option Value of Monitoring in Relationship Banking*

Works in Progress

- *The Effect of the Americans with Disabilities Act on Earnings and Employment Outcomes for People with Disabilities: An Intersectional Approach* (with Margaret Holland)