

# MORGAN HOLLAND

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## EDUCATION

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**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

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### Economics of Automation

- Crafted literature reviews on the economics of automation, substitution between labor and capital in economic models, 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 multiperiod 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.

## TEACHING EXPERIENCE

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**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

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### **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

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### **Programming**

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

### **Spreadsheet and Database**

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

### **Document and Presentation Creation, Literate Programming**

- $\text{\LaTeX}$ , Lyx, Rweave, Rmarkdown, Jupyter, Word, Powerpoint

## Version Control

- [GitHub](#)

## ACADEMIC RESEARCH

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### 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)