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 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 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.

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   September 2013 - December 2013
Research Assistant   *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   July 2012 - September 2013
Auditor   *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   January 2011-July 2012
Accountant/Auditor   *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
· LaTeX, Lyx, Rweave, Rmarkdown, 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)*