

# Lia Yin

October 2020

Department of Economics  
Boston College  
Maloney Hall  
Chestnut Hill, MA 02467

✉ yinlb@bc.edu  
☎ +1-865-221-6178  
🌐 lia-yin.com

## Research Fields

---

Primary      Labor Economics  
Secondary    Applied Microeconometrics

## Education

---

2017 - 2021    BOSTON COLLEGE  
(expected)    Ph.D. in Econometrics (ABD)

2015 - 2017    BOSTON COLLEGE  
M.A. in Economics

2005 - 2009    HARVARD UNIVERSITY  
B.A. in Economics

## Papers

---

### Working Papers

Impact of Self-Defense Regulations on Crime  
(with Abby Hong)

### Work in Progress

Impact of the Stand Your Ground Law on Crime in Michigan  
(with Abby Hong)

Using the RFM Method to Predict Regional Crime

## Research Experience

---

**Research Associate**, *Harvard Business School*

May 2020 - Aug 2020

**Project: Impact of Career Connections on Trading Volume and Trading Rate**

- Building causal random forest to estimate heterogeneous treatment effect of career connections on spread for 10 borrower segments
- Constructed RFM (Recency, Frequency, and Monetary Value) models for borrower segmentation
- Predicted borrower value using extreme gradient boosting for 500 trading relationships
- Simulated over 300 empirical distributions and conducted over 500 hypothesis tests to characterize the clumpiness of transactions between borrowers and lenders
- Scraped website to download more than 800 PDFs
- Improved model performance by 9% after adding career connections as a feature

**Project: Impact of Supply Chain Relationships on Corporate Social Responsibility**

- Systematically collected, reviewed and summarized over 50 publications for meta-analysis
- Programmatically downloaded over 10 GB data from sources like WRDS, FactSet, and Bloomberg
- Performed detailed cleaning on over 20 datasets using libraries including Pandas and NumPy
- Produced over 10 data visualizations with packages such as Matplotlib and Seaborn
- Conducted over 30 panel data regression analyses in Python and Stata

**Teaching Experience**

---

Instructor (designed and sole-taught):

- Statistics, Spring 2019 (two sections)

Teaching Assistant (grading and leading discussions):

- Statistics, Spring 2020 (one section), Fall 2018 (two sections), Spring 2018, Fall 2017, Spring 2016 (one section each)
- Econometrics, Fall 2019 (one section)
- Microeconomic Theory, Fall 2015 (one section)

**Skills**

---

- **Tools:** Stata, R, Matlab, Python, SQL, SAS, EViews, Git, Tableau, C++,  $\LaTeX$
- **Knowledge:** Logistics Regressions, Time Series Forecasting, Causal Random Forest Prediction, Hypothesis Testing, Monte Carlo Simulation

**Languages**

---

Chinese (native), English (fluent), Japanese (basic), French (basic)

**References**

---

Prof. Arthur Lewbel  
*Boston College*  
☎+1 617-552-3678  
✉lewbel@bc.edu

Prof. Zhijie Xiao  
*Boston College*  
☎+1 617-552-1709  
✉zhijie.xiao@bc.edu

Prof. Hanno Foerster  
*Boston College*  
☎+1 617-552-6042  
✉hanno.foerster@bc.edu