

J. Frank Li

Address:
353 Jane Stanford Way
Stanford University
Stanford, CA 94305

Phone: (734) 358-1363
Email: jfli@stanford.edu
jfrankliwork@gmail.com
Webpage: jfrankli.com

Current Affiliation

Postdoctoral Associate, Stanford Digital Economy Lab 07/2020 - present.
Supervised under Prof. Erik Brynjolfsson

Visiting Fellow, NYU Stern Center for the Future of Management 07/2021 - present.
Hosted by Prof. Robert Seamans

Education

Ph.D. Business Administration, University of Michigan, Ross School of Business 2020.
Concentration: Business Economics
Dissertation Title: Essays on Technological Innovation, Uncertainty and Firm Behavior
Committee: Kyle Handley, Yue Maggie Zhou, Jagadeesh Sivadasan, Ying Fan

M.A. Economics, Duke University 2014.

B.S. Mathematics (with Honors) and Economics, University of Michigan 2012.

Research Interests

Information Technology, Digitization, AI and Robots, Future of Work and Human Capital, Organizations, Uncertainty

Research Papers

1. Jump Starting the AI Engine: The Complementary Role of Data and Management Practices. 2022, *Job Market Paper*
2. Measuring the Effects of Firm Uncertainty on Economic Activity: New Evidence from One Million Documents. 2020. (w/ Kyle Handley) *NBER Working Papers 27896, National Bureau of Economic Research, Inc., Invited to Revise and Resubmit at Review of Economic Studies*
3. AI Adoption in America: Who, What, and Where. 2022. (w/ Kristina McElheran, Erik Brynjolfsson, Zachary Kroff, Emin Dinlersoz, Lucia Foster, and Nikolas Zolas)¹ *Invited to Revise and Resubmit at Journal of Economics & Management Strategy*
4. Robot Hubs: The Skewed Distribution of Robots in U.S. Manufacturing. 2022. (w/ Erik Brynjolfsson, Catherine Buffington, Nathan Goldschlag, Javier Miranda, and Robert Seamans) *Working Paper, Invited for publication in AEA Papers and Proceedings 2023*

¹The author order is randomized.

5. Gerontocracy in America: The Aging of Political, Artistic and Scientific Leaders. 2022. (w/ Seth Benzell and Erik Brynjolfsson) *Working Paper*
6. The Impact of Robot Adoption, Evidence from Microdata. (w/ Erik Brynjolfsson, Javier Miranda, and Robert Seamans) *In Progress*
7. The Relationship between Competition and Innovation under Financial Constraints. (w/ Wang Jin and Georgios Petropoulos) *In Progress*
8. Technological Change and the Life Cycles of Skills: Identifying Skill Diffusion and Substitution from Job Postings. (w/ Wang Jin and Sebastian Steffen) *In Progress*
9. Firm Responses to Supply Chain Uncertainty. (w/ Xuan Wei and Wenjian Xu) *In Progress*

Presentations

American Economic Association Annual Meeting (2023)

Stanford Digital Economy Lab (2022, 2021)

JEMS Conference on The Business Revolution of Digital Transformation (2022)

China International Conference in Finance (2019)

The Econometric Society North American Summer Meeting (2019)

Comparative Analysis of Enterprise Data (CAED) Conference (2019)

Stanford Institute for Theoretical Economics (SITE) Summer Workshops: Macroeconomics of Uncertainty and Volatility (2018)

3rd Conference on "Uncertainty and Economic Activity: Measurement, Facts and Fiction" (2018)

University of Michigan Ross School Brown Bag Seminar (2018)

University of Michigan Economics Workshop (2017)

University of Michigan Business Economics Research Symposium (2016, 2017)

Refereeing

Management Science, ICIS

Grants

NBER Economics of Digitization Tutorial	2020
Ross Research Grant	2019
11th NBER Entrepreneurship Research Boot Camp	2018
Ross School of Business Travel Grant	2018($\times 2$)
Ross Doctoral Early Candidacy Grant	2016

Research Experience

U.S. Bureau of the Census, Special Sworn Status Research Assistant	2016 - present.
Prof. Kyle Handley, University of Michigan	2015 - 2019.
Prof. John de Figueiredo, Duke University	2013 - 2014.

Teaching

University of Michigan, Ross School of Business	
Teaching Assistant: BE410 Economic Forecasting (BBA capstone)	2019
Teaching Assistant: MBA Analytics Primer	2018
Primary Instructor: BE300 Applied Microeconomics (BBA core)	2017
Evaluation 4.2 (course average 3.5)	
Duke University	
Teaching Assistant: MATH641 Probability (Ph.D level)	2014
Teaching Assistant: STA711 Probability and Measure Theory (Ph.D level)	2013

Computer Skills

Python, MATLAB, R, Stata, SAS, LaTeX

References

Erik Brynjolfsson^a
 Jerry Yang and Akiko Yamazaki Professor
 Stanford Digital Economy Lab
 Stanford University
 Address: 353 Jane Stanford Way, Office 136
 Stanford, California 94305
 Email: erik.brynjolfsson@gmail.com

^aAdministrative assistant email: erikassistant@gmail.com

Kyle Handley
 Associate Professor
 School of Global Policy and Strategy
 University of California, San Diego
 Address: 9500 Gilman Dr
 La Jolla, California 92093
 Email: khandley@ucsd.edu

Robert Seamans
 Associate Professor
 New York University's Stern School of Business
 Center for the Future of Management
 Address: 44 West Fourth Street, 7-58
 New York, NY 10012
 Email: rsc10@stern.nyu.edu

Yue Maggie Zhou
 Associate Professor
 Stephen M. Ross School of Business
 University of Michigan
 Address: 701 Tappan St., R4446
 Ann Arbor, MI 48109
 Email: ymz@umich.edu