

Education

Brown University Providence, RI

Ph.D Candidate in Economics

2020 - Present

M.Sc Candidate in Computer Science

2022 - Present

- Completed Coursework: Macro-Finance: Behavioral and Rational, Topics in Macro and Monetary Economics, Industrial Organization, Macroeconomic Slack, Advanced Topics in Applied Macroeconomics, Economic Growth and Comparative Development
- Current Coursework: Deep Learning, Learning with Limited Labelled Data

Williams College Williamstown, MA

B.A. in Computer Science and Economics with Highest Honors

2016 - 2020

Research Experience _____

2021-2022 Research Assistant for Professor Amy Handlan, Brown University

- Built audio deep learning models to classify gender, tone, and seniority for speakers in online economic seminars.
- · Analyzed effects of different modes of Federal Reserve communications on asset prices using machine learning tools.
- 2021 Research Assistant for Professor Pascal Michaillat, Brown University
 - Built a policy tool that calculates optimal public expenditure under inefficient unemployment.
- 2019-2020 Research Assistant for Professor David Y. Yang, Harvard University
 - Analyzed the evolution of newspaper images in China by applying computer vision methods to webscraped newspaper PDF files.
- 2019 Research Assistant for Professor Kenneth Kuttner, Williams College
 - Measured the effectiveness of macroprudential policies for 57 economies by calculating the portion of policy actions counter-cyclical to property prices and housing credit.

Teaching Experience _____

Spring 2022	Machine Learning, Text Analysis, and Economics (Undergraduate), TA for Professor Handlan, Brown University
Spring 2020	Game Theory (Undergraduate), TA for Professor Rai, Williams College
Fall 2019	Global Macro Instability and Finance (Undergraduate), TA for Professor Phelan, Williams College
Fall 2017,	Intermediate Micro (Undergraduate), TA for Professors Rai and Sheppard, Williams College
Spring 2019	intermediate Micro (Ondergraduate), 14 for Professors Rai and Sheppard, Williams College

Honors & Awards

2022 - 2024	Open Graduate Education Fellowship, Brown University
2020	Graduate Fellowship, Brown University
2019	Carl Van Duyne Prize in Economics , Williams College
2018	Class of 1960 Scholar in Computer Science, Williams College
2018	Class of 1960 Scholar in Economics, Williams College

Working Paper_____

Work In Progress_

Winner of the Carl Van Duyne Prize in Economics at Williams College

[&]quot;Gender and Tone in Recorded Economics Presentations: Audio Analysis with Machine Learning," with Amy Handlan

[&]quot;The Certification Game" (Undergraduate Thesis)

"Unemployment in a Production Network," with Finn Schüle

Publications

"When Rooks Miss: Probability through Chess," with Steven Miller and Daniel Turek
The College Mathematics Journal, 2021

"Assessing Post-hoc Explainability of the BKT Algorithm," with Iris Howley and Tongyu Zhou 2020 AAAI/ACM Conference on AI, Ethics, and Society (AIES'20), 2020

"Knowledge Distillation for Recurrent Neural Network Language Modeling with Trust Regularization," with Yangyang Shi, Mei-Yuh Hwang, and Xin Lei

ICASSP 2019 - 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2019

Presentations and Workshops _____

2023 ASSA CSWEP (by coauthor)

2022 Brown Macro Breakfast, NBER Behavioral Macro Bootcamp, NBER Heterogeneous-Agent Macro Workshop

Other Experiences _____

2022-2023 Organizer of the Brown Macro Breakfast, Brown University

Fall 2018 Computer Science Research Assistant for Professor Iris Howley, Williams College

Summer 2018 Research Intern, Mobvoi Al Lab

Summer 2017 Summer Quant Analyst, Hutchin Hill Capital

Skills_

Languages Chinese, Cantonese

Programming Languages R (tidyverse), Python (pandas, nltk, tensorflow, and librosa), Stata, Java, JavaScript, C++, C