

Kecy Wu

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EDUCATION

Princeton University, *Ph.D in Quantitative Economics*

Expected Jun 2022

- Dissertation: Essays on Entrepreneurship

Princeton University, *B.S.E in Operations Research & Financial Engineering* (GPA: 3.9/4.0)

Jun 2015

- *Summa cum laude*

RESEARCH EXPERIENCE

Princeton University, *Doctoral Researcher*, Princeton, NJ

Sep 2016 – Present

- Merge several datasets using Python to construct empirical measures of startups' organizational capital.
- Build a new theoretical macroeconomic framework with a venture capitalist sector to solve the problem of financing high-productivity startups that lack collateral.
- Simulate a lottery experiment in Matlab based on summary statistics of the Norwegian economy to measure the effect of relaxing financing constraint on startup entry.

INDUSTRY EXPERIENCE

Wayfair, *Economist Intern in Central Algorithms*, remote

Jun 2021 – Aug 2021

- Built a causal tree model to estimate heterogeneous treatment effects of incidents on customer lifetime value.
- Selected empirical design by evaluating several causal machine learning techniques (post-LASSO, R learner).
- Manipulated large datasets using Google big query interface (SQL) and PySpark.
- Communicated methodology to colleagues working on similar projects through team-wide presentations.
- Influenced business decisions by presenting recommendations on handling damaged-orders.

Morgan Stanley, *Analyst in Securitized Product Group*, New York, NY

Jun 2014 – Feb 2016

- Modeled asset-backed securities using amortization schedule calculator to deliver tailored solutions to investors.
- Analyzed different types of collaterals such as clean energy and unsecured consumer loans.
- Worked cross-functionally with the issuing desk, rating agencies, and accountants.

Summer Analyst

- Proposed a new asset-backed securities product by analyzing corporate loans.

MACHINE LEARNING PROJECTS

Elite Data Science Academy

Jan 2021 – Mar 2021

- Constructed clusters of customers to a retailer based on purchase patterns using unsupervised learning algorithms.
- Predicted when employees will leave a company using classification algorithms.
- Predicted residential real estate prices for a REIT based in New York State using supervised learning algorithms.

TEAMWORK & COMMUNICATION EXPERIENCE

Princeton University, *Assistant Instructor of Junior Independent Research*, Princeton, NJ

Sep 2020 – Present

- Advised a group of 10 economics majors in a two-semester empirical research project.
- Provided step-by-step guidance on framing research questions, acquiring data, choosing empirical design, and running codes in Stata during weekly one-on-one appointments.

Princeton Chinese Theater, *Director*, Princeton, NJ

Sep 2011 – Jun 2014

- Managed a 20-member cast and crew team and directed the fall theater production "Rhinoceros in Love".

SKILLS

Technical: Python, SQL, PySpark (learning), R (occasional use), Matlab, Stata

Languages: English (fluent), Chinese (native)

Interests: figure skating – choreographing Meditation de Thais for adult level ice dance competitions