

# JINGYI WU

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## EDUCATION

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- Duke University**, Durham, NC *Aug 2018–May 2020 (Expected)*  
*M.A. in Economics (STEM)* (*Finance and Data Science Concentration*) GPA: 3.88/4  
– 2019 Spring M.A. Merit Scholar Award
- University of California, San Diego**, La Jolla, CA *Sep 2016–Jun 2017*  
*Visiting Scholar* (*Full Scholarship by Beijing Municipal Commission of Education*) GPA: 3.925/4
- Capital University of Economics and Business**, Beijing, China *Sep 2014–Jul 2018*  
*B.A. in Economics* (*3 First-class Scholarships*) GPA: 3.91/5.0 (Top 5%)  
– Honorable Mention in 2016 US Interdisciplinary Contest in Modeling (ICM - COMAP)

## SKILLS

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**Tools:** Python, SQL, R, Matlab, Stata, Bloomberg, Tableau, PowerBI, LaTeX

**Techniques & Skills:** Econometrical Multivariate Models, Time Series Analysis, Forecast Modeling, Market Reporting

**Courses:** Mathematical Analysis, Operation Research, Applied Econometrics, Algorithms, Practical Data Science, Financial Market Forecasting, Fixed Income and Speculative Strategies, Intermediate Accounting

## WORK EXPERIENCE

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- Research Assistant, Duke Fuqua School of Business** *Oct 2019 - Present*  
– Worked with distinguished professor Douglas T. Breeden on implicit state prices and risk-neutral densities for future interest rates  
– Uncovered root causes behind market dynamics  
– Data retrieval and validation from Bloomberg and spreadsheets automation through VBA
- Business Analytics Intern, iResearch Consulting Group** *June 2019–Aug 2019*  
– Worked in High-Tech Industry Research Department, which focuses on market research projects for specific clients  
– Worked as the leader of *STAR Market Potential 300* ranking project. Formulated ranking methodology, developed metrics and identified relevant investment trends. This project has been selected as a prototype  
– Used Tableau to discover data pattern over 1500+ start-ups on 15+ metrics to screen out those with IPO potentials. Also contributed to the creation of corresponding news articles and blog posts  
– Drafted the *Made in China 2025* industry research report about advanced material and high-end manufacturing industry by conducting secondary research and making cold calls
- Marketing Intelligence Intern, Cummins Inc.** *Nov 2017–Apr 2018*  
– Worked in Marketing Team of Engine Business Unit which monitors revenue movements and provides sales forecasts  
– Screened 20+ large-scale spreadsheets using Power BI monthly ,and built visualization dashboards to distill insights for internal and external clients  
– Improved KPIs valuation framework and minimized inaccuracies across spreadsheets by setting up validation pipelines  
– Automated querying and reporting process using VBA to improve work efficiency  
– Facilitated actions of account managers based on examination of Opportunity & Vulnerability databases and shortened overall project duration by 20%
- Industry Research Intern, Huayan Data Research Co. Ltd** *Jul 2017–Sep 2017*  
– Worked in Macro Research Team focusing on new retail, credit ratings and private equity research.  
– Published 6 articles and one were selected on *China Securities Journal*. Gained over 50,000 hits on financial websites.  
– Built large-scale spreadsheets of financials data from 200+ financial statements to support company ranking projects

## SELECTED PROJECT

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- Python • Opioid Control Policies Evaluation** ([github.com/Killshadows/Opioid-Policies-Evaluation](https://github.com/Killshadows/Opioid-Policies-Evaluation)) *Nov 2019*  
– Estimated the impact of opioid control policies. Tools used: pandas, numpy, plotnine, statsmodels, dask  
– Exploited Difference-in-Difference technique to deliver descriptive (heatmap, plotting) and inferential (regressions and hypothesis testing) analysis  
– Applied an ETL workflow and leveraged distributed computing to manipulate large data sets
- R & Stata • Margarine Market Analysis** ([github.com/Killshadows/Margarine-Market](https://github.com/Killshadows/Margarine-Market)) *Apr 2019*  
– Applied Discrete Choices model to do quantitative analysis on price and demographic features in margarine market  
– Addressed sample shortage problem using Bootstrap technique