

JINGYANG WANG

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EDUCATION

University of Barcelona

11/2023 -

PhD in Economics

University of Zurich.

9/2019 – 8/2023

MA in Economics (Minor: Data Science)

Coursework: Research in Macroeconomics; Machine Learning for Economic Analysis (Python); Global Poverty and Economic Development – Cases (JavaScript); Computational Economics and Finance (MATLAB); Econometrics for Policy Analysts (Stata); Monetary Policy Analysis: Empirical Modelling (Gretl); Seminar in Information Economics and Contract Theory (Blockchain); Time Series Analysis, Program Evaluation and Causal Inference, Big Data Methods for Economists (R)

ETH Special Student: Urban Systems and Transportation (GIS), Using R for Data Analysis, Introduction to Machine Learning

Awards & Honors: 2nd Prize in International Fintech Competition Chengdu 80 among leading universities behind Singapore University and ahead of Berkeley, Hong Kong University and Tsinghua University

University of Barcelona

7/2021

Summer School: “Ecological and Feminist Macroeconomics”

Shanghai University

B.Ec. in Finance

9/2014– 6/2019

GPA: 3.57/4.0(88.28/100)

Awards & Honors: Third Place in the Contest of Environment Protection Knowledge; Final Eight and Best Debater in the Debate Contest; The outstanding volunteer for the 3rd Global SME Summit (President Obama Speech)

Skills

Certificates: CFA I Candidate; The Fund Qualification Certificate of China; The Accounting Qualification Certificate of China

IT Tools: R, Stata, Python, EViews, MATLAB, SQL, Tableau, JavaScript, GIS, Advanced Excel (VLOOKUP, VBA), Advanced PowerPoint, Adobe Effect.

Language Skills: English: Fluent (IELTS 7.0), Japanese, German (Intermediate)

Hobbies: Gu Zheng (Level 6), Taekwondo (Yellow Belt), Swimming, Tennis, Rock Climbing.

SOCIAL EXPERIENCE

KOF Swiss Economic Institute, ETH Zurich

3/2022 –12/2022

Research Intern in Project “Swiss Savings Glut”

- Data collection, data analysis, and literature review in the project “Swiss Savings Glut” under the supervision of Prof. Graff Michael (Head of Division Macroeconomic Forecasting) and Prof. Abrahamsen Yngve (Head of Section Swiss Forecast).
- Proposed the idea of doing a meta-analysis on the impact of demographics and interest rates on the current account, and created a database of 80 papers.

University of North Carolina at Chapel Hill

12/2021–2/2022

Research Assistant & Team Leader

- Data collection, processing and analysis for NBER working paper: *Fintech and Racial Barriers in Small Business Lending*.

Jinshang Bank Co., LTD

7/2017–8/2017

Intern, Private Banking Department

- Participated in the implementation of “Five-in-one” targeted poverty alleviation policy in the form of microfinance. During the time, I followed the leader to Pingshun County for propaganda, rural visits, and centralized signing.
- Worked as a client manager and provided individual financial advice to clients.

Orient Securities Co., LTD

6/2016– 8/2016

Intern, Securities& Financial Services Department

- Mainly responsible for handling affairs related to securities margin trading, agreed repurchase type securities, and stock-pledge repo..
- Watched closely companies’ risk, helping to look for information of companies required by due diligence, and making dynamic management of high-risk guarantees and underlying stocks.
- Checked the latest rules and regulations on the official websites of Shenzhen Stock Exchange, Shanghai Stock Exchange, and China Securities Regulatory Commission.

Projects

Research Project on the relationship between climate shocks and education quality in Vietnam

9-12/2021

(Course: Global Poverty and Economic Development Supervisor: Prof. Lorenzo Casaburi)

- Got rainfall data from Google Earth Engine with JavaScript. Did Regressions of years of education and employment on rainfall and several controls (gender, rural or urban...) with the province and time-fixed effects.
- Various methods and approaches used: Cluster regression, collapsed data sets, split data sets, and aggregated age groups regressions.
- Results: Rainfall is associated negatively with school years as well as employment and in different genders & in urban or rural areas

Project in Computational Economics and Finance with MATLAB 11/2020

Solving the Infinite-Horizon Stochastic Growth Model with Parameterized Expectation Approach

- We presented a variation of the stochastic growth model by adding a non-negative investment constraint to it. After outlining the general model following the research papers in this field, we introduced the parameterized expectations approach to solving the standard dynamic Ramsey model with MATLAB.

Project of Predicting the monthly rent in Switzerland with R 4/2021

- We cleaned the data to make it easier for further analysis. Secondly, we figured out an optimal imputation method (normal prediction) to deal with missing values within the dataset. Thirdly, we examined 12 models (OLS regression, Ridge and Lasso Regression, Tree-based model, KNN, and neural Network) including feature selection, and used the Bagging method to predict the rent of the test dataset.
- The dataset contains 72,000 observations together with a collection of 82 features that could have an impact on the rental prices of observations

Research Project on the Impact of Transit System on Local Crime: Evidence from Chicago's Transit System 9-12/2021

- Used spatial data from Chicago Data Portal and GIS.
- Proposed an OLS model to capture the impact of the transit system on local crime while constructing treatment and control zones in a way that there is little difference among these zones in terms of socioeconomic characteristics.
- The main result suggests a positive impact of transit system on local crime and we claim our finding is causal.

International Fintech Competition Chengdu 80 among leading universities(2nd Prize) with Python 10/2020

- Developed a Fintech prototype, and programmed a Mathematic model using text mining, semantic analysis, ESG scoring and performance test to predict stock returns and offer robotic advisory to serve investors to make a better interpretable investment for both financial return and sustainability value. (We screen a pool of stocks according to ESG score evaluation, then we apply Smart-betas to decide the weight of stocks in the investment pool, and finally, we use the Zig-Zag function to predict future returns and give stock buying advice.)
- In Chengdu 80, a fintech design and development competition, our team "SUISCORN" representing University of Zurich won the second prize, mentored by Phillip Aerni, the Director of the center for corporate responsibility and sustainability as well as senior researcher Jiang Shan. . Other participants include University of California, Berkeley, Tsinghua University, University of Hong Kong, etc.
- https://www.ccrs.uzh.ch/de/aktuelles/chengdu-80_ccrs-team.html

EXTRACURRICULAR ACTIVITIES

The organizer of Student Chinese Orchestra at Zurich 11/2021

- Organized and played Guzheng every week with friends who sing and play piano, guitar, flute, Xiao(a kind of bamboo flute), Erhu, and drum.
- Was invited to perform folk music by the Chinese Embassy, Chinese Consulate, and Huawei, and has received media coverage.

Finance Club Ambassador, UNIVERSITY OF ZURICH 2021

- Promoted finance enterprise activities on campus

Shanghai University Toastmasters Club 12/2015-12/2016

Vice President of Education

The chorus of school of economics 2015

Youth League Committee at School of Economics 9/2014-6/2016

Deputy Minister of Social Practice Department

Debate Competition (Oregon Debate) 12/ 2014-3/2015

- Debated on the topics "Should China legalize homosexual marriage?", "Should China legalize euthanasia?", "Should China establish designated legal red-light districts?"
- Made it to the Final Eight and won the title of "Best Debater" in one of the contest