

# Yifei Wang

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## EDUCATIONAL BACKGROUND

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- **Economic and Management International Immersion Talent Program, SWUFE** 2016.09-2020.07  
B.A. in Economics with Outstanding Academic Scholarship
- **University of Calgary** 2021.09-2022.09  
M.A. in Economics
- **University of California, Santa Cruz** 2023.09-Current  
M.A. in Economics  
Ph.D. student in Economics

## RESEARCH ASSISTANCE EXPERIENCE

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- **City University of Hong Kong** 2023.01-2023.07  
Research Assistant | Advisor: Prof. YUAN Hsiang-Yu Sean
  - Collaborated with PolyU and worked on the effect of vaccination on the COVID-19 fatality rate
  - Responsible for data processing and visualization using R

## TEACHING ASSISTANCE EXPERIENCE

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- **Econ 124: Machine Learning for Economists (Undergraduate)** 2025.01-Current  
Teaching Assistant | Instructor: Michael Pak-shing Leung
- **Econ 1: Introductory Microeconomics (Undergraduate)** 2024.09-2024.12  
Teaching Assistant | Instructor: Subhra Baran Saha
- **Econ 1: Introductory Microeconomics (Undergraduate)** 2024.04-2024.06  
Teaching Assistant | Instructor: Kwok-Chiu Fung
- **Econ 1: Introductory Microeconomics (Undergraduate)** 2024.01-2024.03  
Teaching Assistant | Instructor: Kwok-Chiu Fung

## RESEARCH INTERESTS

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My research interests are:

- Applied Microeconomics
- Educational Economics
- Econometrics

## WORKING PAPERS

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- **The Impact of School Attendance Boundary Rezoning on Housing Prices and Students' Academic Performance**  
Co-author | Advisor: Prof. David Schonholzer | 2024.12 – Current
  - Evaluated the causal impact of boundary adjustments on student academic performance and housing prices.
  - Utilized GIS and machine learning to analyze school attendance boundary changes. Explored how rezoning affects economic and racial integration within communities.

- This study aims to provide actionable insights for policymakers on how to adjust the school attendance boundary.
- **The Impact of School Attendance Boundary Rezoning on Housing Prices and Students' Academic Performance**  
Author | Advisor: Prof. David Schonholzer | 2024.12 – Current
- Comprehensive Support and Improvement (CSI) policies target underperforming schools identified under the Every Student Succeeds Act (ESSA).
- The research evaluates CSI's effectiveness in reducing achievement gaps and improving resource equity using school-level data and advanced econometric methods.
- This study aims to provide actionable insights for policymakers to optimize intervention strategies, ensuring long-term educational improvements and equity.

## PUBLICATIONS

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- **YiFei W. & SuRong W. (2020) Intelligent Test Paper Generation Based on Dynamic Programming Algorithm.** Journal of Physics: Conference Series. 1682, 012-023. DOI: 10.1088/1742-6596/1682/1/012023
- Applied dynamic programming algorithm to realize an intellectual paper construction system
- Optimized the space complexity and the compared time and space complexity with greedy and brute force algorithm
- Hongxiang Li, Ao Feng, Bin Lin, Houcheng Su, Zixi Liu, Xuliang Duan, **Yifei Wang.** (2021) **A Novel Method For Credit Scoring Based On Feature Transformation And Ensemble Model.** PeerJ - Computer Science. DOI: 10.7717/peerj-cs.579
- Proposed a prediction method based on feature transformation and ensemble model
- Verified the effectiveness of the proposed method by comparative experiments on two standard datasets
- Xuan Wu, Silong Zhou, Mingwei Chen, Yihang Zhao, **Yifei Wang,** Xianmeng Zhao, Danyang Li, Haibo Pu. (2022) **Combined Spectral and Speech Features for Pig Speech Recognition.** PLOS ONE. DOI: 10.1371/journal.pone.0276778
- A fusion network is proposed to better recognize speech of pigs through the mutual complementation of spectral features and audio features. In the spectral features section, chroma, spectral contrast, tonnetz, MFCC, and LM features are extracted and combined to obtain MC, LC, and MLMC features. We design a parallel network structure and supplement the input spectrum and audio features of the model, which gives us an accuracy score of 93.39%.
- Yifei Wang, Hong Lin, Shuo Yao, Jialin Zou. (2022) **Application of a Maverick Stock Capturing Strategy in the Chinese Stock Market.** 2022 International Conference on Mathematical Statistics and Economic Analysis. DOI: 10.2991/978-94-6463-042-8\_76
- Introduced an innovative maverick stock-capturing strategy designed to identify undervalued stocks in the Chinese stock market.
- Developed and tested a mathematical model integrating advanced statistical and econometric techniques to predict stock performance. Then I compared the maverick strategy's performance with traditional stock-picking methods, demonstrating superior returns under various market conditions. Finally, I analyzed the strategy's applicability in the context of emerging markets, focusing on the unique characteristics of the Chinese stock market.
- Provided actionable insights for investors and policymakers aiming to optimize investment strategies and improve market efficiency.

## SKILLS

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- Python, Stata, SAS, R, MATLAB, QGIS