

Chao Fang

Department of Economics
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Education

Ph.D. in Econometrics and Quantitative Economics, Clark University, Worcester, MA May 2024 (Expected)
M.A. in Economics, Clark University, Worcester, MA Aug 2019
B.S. in Economics and Mathematics, Michigan State University, East Lansing, MI May 2017

Research Interests

Applied Econometrics, Applied Microeconomics, Development Economics, Spatial Econometrics

Publications

Chao Fang, Ernest Zhang, and Junfu Zhang, "[Do Women Give up Competing More Easily? Evidence from Speedcubers](#)" *Economics Letters*, 2021, 205, 109943.

Yue Gao, Chao Fang, Jing Zhang, "[A Spatial Analysis of Smart Meter Adoptions: Empirical Evidence from the U.S. Data](#)" *Sustainability*, 2022, 14, 1126.

Experience

Instructor, School of Management, Clark University August 2023 - Current

- Lead intensive practical sessions, teaching graduate students how to utilize Python and Pandas to simulate real-world business scenarios.
- Conduct office hours to provide one-on-one student consultations, assisting with intricate data analysis issues and supporting their research endeavors.

Silver Medalist, Kaggle Competition August 2023

Google Research - Identify Contrails to Reduce Global Warming

- Developed models using advanced techniques for a Google Research project on climate impact.
- Applied position-based augmentations to bolster training results across varied image resolutions.

Research Assistant, Department of Economics, Clark University June 2018 – August 2023

- Initiated and developed a Python-based data extraction pipeline with Google geocoding APIs, capturing geographic coordinates for over 200,000 land transactions.
- Conducted a competitive behavior empirical study using DID models and ML techniques.
- Utilized ArcGIS to precisely map administrative division longitude and latitude for a dataset of over 100,000 observations, enhancing the accuracy of subsequent spatial economic analyses.

Teaching Assistant, Clark University August 2018 – May 2023

- Assisted in graduate-level courses including Computational Finance and Financial Econometrics.
- Held review sessions to instruct students on the use of R and Stata to enhance their understanding of statistical methodologies.

Instructor, Clark-HFUT joint program November 2021 - January 2022

- Co-developed curriculum and delivered content for Microeconomic Theory Using Calculus.

Attendee, MIT COVID-19 Datathon

May 2020

- Led a team to construct and test a spatial panel econometric model with Stata that showed a positive correlation between subway ridership and the number of COVID-19 positive cases.

Working Papers

Chao Fang "Promotion of Putonghua's Effect on Human Capital Accumulation in Dialect Speaking Regions"

Work in Progress

Chao Fang "Do Dialects Similarity Increase the Probability of Corruption in Land Parcel Transaction"

Skills

Programming: Python, R, SQL, MATLAB, SAS

Machine Learning: Linear Regression, Logistic, Decision Tree, Random Forest, SVM, K-NN

Causal Inference: Logit, Probit and Tobit model, Synthetic Controls, IV, DID, RDD, FE & RE, PSM

Software: STATA, LaTeX, ArcGIS, Tableau, Spark

Languages

Chinese (Native), English (Fluent)

References

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