CHAO WANG

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PROFILE

- Ph.D candidate of economics at Indiana University, adept at industrial organization and econometrics
- Five-year hands-on experience with structural estimation, causal inference, and machine learning
- Proficient in working with large-scale data, survey data, and discrete choice experiments
- Proven track record of cooperation and communication skills

EDUCATION

Indiana University, Bloomington — Ph.D in Economics (STEM) *2018-2024 (expected)*
Fields: Empirical Industrial Organization, Applied Econometrics, Applied Microeconomics
Xi'an Jiaotong University (China) — MA in Economics *2016-2018*
Xi'an Jiaotong University (China) — BA in Economics *2012-2016*

SKILLS

Methods
Structural Estimation: BLP, dynamic discrete choice model, auction
Causal Inference: Diff-in-Diff, IV, Regression Discontinuity, Synthetic Control Method
Machine Learning: GAMs, trees-based classification, random forests
Programming
Statistical Modeling: R, Matlab, Python, Stata, Fortran
Database and Version Control: MySQL, Git

EXPERIENCE

Research Assistant, Department of Economics, Indiana University *Summer 2023 - Present*

- Reviewed and summarized the literature in dynamic experiments in intertemporal choices problem.
- Utilized MySQL to extract information from large-scale gamer databases of user profiles and experience.
- Performed statistical analysis and visualized directed network on map using R.

Vehicle Ownership Heterogeneity and Electric Vehicle Subsidy Policy *2021-Present*

- Investigated heterogeneous socio-demographic households' responses to electric vehicle subsidy schemes in California; proposed an improved subsidy scheme to promote EV adoption.
- Utilized large-scale market performance data, large-scale survey data and discrete choice experiments.
- Conducted casual inference analysis (IV-based) using R and structurally estimated household demand using Matlab and Python.

Identification of Dynamic Discrete Choice Models with Hyperbolic Discounting Using Terminating Actions *2019-2023*

- Provided novel identification results for dynamic discrete choice models with present bias.
- Leveraged terminating action to avoid widely used normalization assumptions.
- Simulated structural models using Matlab and visualized results using Python.

Teaching Experience, Indiana University *2018-Present*

- Associate Instructor: Taught undergraduate microeconomics courses which include giving lectures, designing tests and assignments, and grading.
- Teaching Assistant: Provided recitations for an advanced microeconomics course for Ph.D. students.