Dayu Wu

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Education	**University of Science and Technology of China** 84.89/100, B.Sc. Statistics, 2023 (expected)
Research Interests	**Methodologies**: Data-driven Analytics; Mechanism Design; Statistical Learning; Econometrics; Game Theory. **Applications**: Supply Chain Management; Innovation Contest; Online Platforms and Retailing; Block-chain and Fintech.

Working Papers

1. **Comprehensive Prize vs. Special Track Prizes in Multi-attribute Innovation Contests** (with Yangyang Xie and Qinglong Gou).

2. **Information Asymmetry in the Innovation Contest** (with Yangyang Xie, Qinglong Gou and Ying-Ju Chen).

Research Experiences

Department of ISOM, HKUST

Supervised by Prof. Ying-Ju Chen

06/2022 - now

- Summarized the existing literature on auction entry problems
- Constructed an empirical model to verify the effect of guarantee in innovation contests
- Developed an analytical model to design participation information in contests with entry

Department of Management Science, USTC

Supervised by Prof. Yangyang Xie and Prof. Qinglong Gou

10/2021 - now

- Summarized the existing models of ability-based contests
- Developed an auction model to capture prize dimensions
- Presented on POMS China 2022 and ICSS 2022

Department of Biostatistics, UC Davis

Supervised by Prof. Lihong Qi

06/2021 - 10/2021

- Generated censored data and constructed tenable statistical models
- Analyzed the correlation between immune and obesity biomarkers
- Applied LASSO method in CPH model for variable selection

Teaching Experiences	**Applied Statistical Methods (UG Required, Spring 2022)** Teaching Assistant, Department of Statistics, USTC **Mathematical Analysis I (UG Required, Fall 2022)** Teaching Assistant, Department of Mathematics, USTC
Conference Talks	**Multi-attribute Innovation Contests** - 2022 INFORMS Conference on Service Science - 2022 POMS International Conference in China
Awards and Honors	**GIEC Scholarship, Chinese Academy of Sciences** Sole recipient, 2020 **Outstanding Freshman of the Year, USTC** Top 5% among freshmen, 2019
Languages and Skills	Chinese (native), English (fluent) R, Python (Pandas, Scikit-Learn, PyTorch), LaTeX
Coursework	**Statistics and Analytics** Regression Analysis; Categorical Data Analysis; Time Series Analysis; Multivariate Analysis; Applied Statistical Methods; Nonparametric Statistics; Convex Optimization; Stochastic Processes; Mathematical Statistics; Probability Theory; Real Analysis; Complex Analysis; Differential Equations. **Management Science and Economics** Logistics and Supply Chain Management; Consumer Behavior; Management Information Systems; Dynamical Analysis of Social and Economical System; Principles of Microeconomics; Game Theory.