

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: DEI; Innovation Contest; Online Platforms and
Retailing; Block-chain; Healthcare Management.

Working Papers

1. **Comprehensive Prize vs. Special Track Prizes in Multi-attribute Innovation Contests** (with Yangyang Xie and Qinglong Gou).
2. **How Does a Crowdsourcing Platform Price an Innovation Contest** (with Yangyang Xie, Qinglong Gou and Ying-Ju Chen).

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

Research Experiences

Department of ISOM, HKUST

Supervised by Prof. Ying-Ju Chen

06/2022-

Conduct independent research on the topics of innovation contests and platform economy as a visiting research intern. Attend seminars and meet with the supervisor weekly. Discuss the optimal participation strategies and effort exerting strategies adopted by solvers, the platform operations, and the firm's decisions under information asymmetry.

Department of Management Science, USTC

Supervised by Prof. Yangyang Xie and Prof. Qinglong Gou

10/2021-

Conduct independent research on the topics of innovation contests and supply chain management, meanwhile, attending seminars and meeting with supervisors weekly. Mainly Focus on multi-attribute contests and the optimal prize mechanisms, considering combination effect between attributes.

Department of Biostatistics, UC Davis

Supervised by Prof. Lihong Qi

06/2021-10/2021

Worked on a project with UC Davis Hospital to measure the impact of obesity and immune biomarkers on the survival outcome of glioblastoma multiforme (GBM) patients. The duty included data cleaning, survival modelling and analysis report. Constructed tenable models with censored clinical data, applied LASSO in Cox regression to select genes.

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.