Wenlu Xu

Email: wenluxu@ucla.edu • **Homepage:** http://www.stat.ucla.edu/~wenluxu/ • **Address:** Los Angeles, CA, USA 90095

EDUCATION

University of California, Los Angeles (UCLA)   **Los Angeles, CA, USA**
Ph.D. in Statistics & Data Science   09/2022-Present
Advisor: Xiaowu Dai, GPA: 3.98/4.0.

Shandong University (SDU), Taishan College (Honors)   **Jinan, Shandong, China**
B.S. in Mathematics and Applied Mathematics (Ranking: Top 1)   09/2018-06/2022
Thesis Advisor: Tianyang Nie, GPA: 3.93/4.0 (92.71/100).

PAPERS

Recommender System

- Dai X., **Xu, W.**, Qi Y., & Jordan M. (2023). **Incentive-Aware Recommender Systems in Two-Sided Markets.** *Preprint 2023+. Under Revisions at ACM Transactions on Recommender Systems.* [Paper][Code]
- **Xu, W.**, & Dai X. (2024). **Interference in Two-Sided Markets.** *Preprint 2024+.*
- **Xu, W.**, & Dai X. (2023). **A Contextual Bayesian-Incentive-Compatible Algorithm for Causal Bandit in Recommender Systems.** *Preprint 2023+.*

Kernel Estimation

- **Xu, W.**, & Dai X. (2023). **Statistical Inference with Gradient Information.** *Preprint 2023+.*

Federated Learning

- Tao, Y., Cui, S., **Xu, W.**, Yin, H., Yu, D., Liang, W., & Cheng, X. (2023). **Byzantine-Resilient Federated Learning at Edge.** *IEEE Transactions on Computers.* (Volume: 72, Issue: 9, 01 September 2023). [Paper]

Privacy-Aware Computing

- Yu, D., Zhang, K., Tao, Y., **Xu, W.**, Zou, Y., & Cheng, X. (2023). **Correlation-Aware and Personalized Privacy-Preserving Data Collection.** *2024 International Conference on Computing, Networking and Communications (ICNC) - ICNC'24 Invited Papers.* [Paper]

Miscellaneous

- **Xu, W.**, & Nie T. (2022). **Fair Pricing for American Options in Nonlinear Market.** *Outstanding Thesis Award at SDU.*

AWARDS AND HONORS

- Graduate Summer Mentored Research Fellowship   2022 **UCLA**
- Dean's Award (Top 1)   2022 **SDU**
- National Merit Scholarship (Top 0.2%)   2021 **China**
- Sunflower Scholarship by Industrial and Commercial Bank of China (Top 1)   2020 **China ICBC**
- Outstanding Student Leader of Taishan College   2019, 2020 **SDU**

ACADEMIC SERVICE

Journal Reviewer

STAT   2023-Present
IEEE Transactions on Mobile Computing   2024-Present

INVITED TALKS

Double Machine Learning Workshop   **UCLA**
Speaker, the Summer Institutes in Computational Social Science (SICSS)   06/2023
  • A One-hour workshop introducing double machine learning to students and professors in social science.

ACADEMIC STUDENT EMPLOYEE

Research Assistant at UCLA
Graduate Student Researcher, Supervisor: Yuhua Zhu.   08/2024

Teaching Assistant at UCLA
STATS-102C *Monte Carlo Methods*, Instructor: Guani Wu.   24F
STATS-10 *Introduction to Statistical Reasoning*, Instructor: Guani Wu.   24S
STATS-201B *Statistical Modeling and Learning*, Instructor: Xiaowu Dai.   24W
STATS-211 *Topics in Economics and Machine Learning*, Instructor: Xiaowu Dai. 24W
STATS-10 *Introduction to Statistical Reasoning*, Instructor: Maria Cha.   23F

Teaching Assistant at SDU
Mathematics Project in English: Writing and Presenting, Instructor: Jordan Stoyanov.   21F
Probability Theory, Instructor: Tianyang Nie.   20F, 21F
Mathematical Analysis II, Instructor: Zongyuan Huang.   20S, 21S, 22S
Mathematical Analysis I, Instructor: Zongyuan Huang.   19F, 20F, 21F

INTERNSHIPS

Tensor Pacific   **Shanghai, China**
Quantitative Trading Strategy Development Engineer Intern, Investment Research Dept.   08/2021-12/2021
TF Securities   **Shanghai, China**
Analyst Intern, Investment Banking Headquarters.   07/2021

OTHER INFORMATION

Computer Skills: Python, R, Java (China Computer Federation Accredited, Top 5.2%), MATLAB, Latex, C#.
Languages: English (fluent), Chinese (native).