

# Wenlu Xu

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## EDUCATION

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### University of California, Los Angeles (UCLA)

*Ph.D. in Statistics & Data Science*

Advisor: Xiaowu Dai, GPA: 3.97/4.0.

Los Angeles, CA, USA

09/2022-Present

### Shandong University (SDU), Taishan College (Honors)

*B.S. in Mathematics and Applied Mathematics (Ranking: Top 1)*

Thesis Advisor: Tianyang Nie, GPA: 3.93/4.0 (92.71/100).

Jinan, Shandong, China

09/2018-06/2022

## PAPERS

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### Double Machine Learning

- 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). [<https://ieeexplore.ieee.org/document/10070815>]

### 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.*

### Miscellaneous

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

## AWARDS AND HONORS

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- 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

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### Journal Reviewer

*STAT* 2023-Present

## INVITED TALKS

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### Double Machine Learning Workshop

*Speaker, the Summer Institutes in Computational Social Science (SICSS)*

- An One-hour workshop introducing double machine learning to students and professors in social science.

UCLA

06/2023

## TEACHING

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### Teaching Assistant at UCLA

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

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### 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

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**Computer Skills:** Python, R, Java (China Computer Federation Accredited, Top 5.2%), MATLAB, Latex, C#.

**Languages:** English (fluent), Chinese (native).