

Ziliang Shen

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Shanghai, China

PROFILE

Ph.D. in Statistics at Shanghai University of Finance and Economics, specializing in high-dimensional mathematical statistics. My research focuses on developing theoretically grounded, scalable methodologies for distributed inference, differential privacy, and complex structured data. I aim to bridge the gap between rigorous statistical theory and the computational demands of large-scale, decentralized architectures.

EDUCATION

- **Shanghai University of Finance and Economics** Sep 2021 – Present
PhD in Statistics Shanghai, China
- **Nanchang University** Sep 2015 – Jun 2019
Bachelor in Mathematics and Applied Mathematics (Financial Mathematics) Nanchang, China

PUBLICATIONS & WORKING PAPERS

C=CONFERENCE, J=JOURNAL, S=IN SUBMISSION, W=WORKING PAPER

Methodology: Distributed Inference & Privacy

- [S.3] **Ziliang Shen**, Caixing Wang, Shaoli Wang, Yibo Yan. (2025). [High-dimensional differentially private quantile regression: distributed estimation and statistical inference](#). Under **Major Revision** at *IEEE Transactions on Information Theory*.
- [S.1] Caixing Wang, **Ziliang Shen**, Shaoli Wang, Xingdong Feng. (2025). [Estimation and Inference on Distributed High-Dimensional Quantile Regression: Double-Smoothing and Debiasing](#). **Submitted** to *IEEE Transactions on Knowledge and Data Engineering*.
- [C.1] Caixing Wang, **Ziliang Shen**. (2024). [Distributed high-dimensional quantile regression: estimation efficiency and support recovery](#). In *International Conference on Machine Learning (ICML)*, **Spotlight**.
- [W.1] **Ziliang Shen**, Caixing Wang, Yibo Yan. False Discovery Rate Control in Distributed High-Dimensional Quantile Regression. *Working Paper*.

Methodology: High-Dimensional & Applied Statistics

- [S.2] Hanteng Ma, **Ziliang Shen**, Xingdong Feng, Xin Liu. (2025). [Sparsity learning via structured functional factor augmentation](#). **Accepted** by *Statistica Sinica*.
- [W.2] Shuyan Chen, **Ziliang Shen**, Xinlei Wang. (2026). [CoLaDAG: Compositional Latent Log-ratio DAG Analysis of the Gut Microbiome under Silver Nanoparticle Exposure](#). **Accepted** by *Working Paper*.

ACADEMIC SERVICE & PRESENTATIONS

- **Anonymous Reviewer** 2025
ICLR 2026, Journal of the Royal Statistical Society: Series B, Statistica Sinica.
- **Oral Presentation: Maoshisong Statistical Education Doctoral Forum** Apr 2026
Southwestern University of Finance and Economics, Chengdu
- **Poster Presentation: 3rd National Conference on Statistics and Data Science** Jul 2025
Zhejiang University
- **Research Presentation Award: Shanghai Doctoral Forum on Statistics** Nov 2024/2025
East China Normal University / Shanghai University of Finance and Economics
 - Awarded Second Prize (2024) and Participation Prize (2025)
- **Session Participant: 17th China R Conference & 2024 X Intelligence Conference** Jul 2024
Renmin University of China
 - Participated in *New Statistical Methods I* session and engaged in academic exchange

TEACHING EXPERIENCE

- **Teaching Assistant** Sep 2022 – Present *Shanghai University of Finance and Economics*
 - Courses: Advanced Mathematical Statistics I & II, Linear Models, Distributed Computation, Empirical Processes, Optimization.

HONORS AND AWARDS

- **National Scholarship for Doctoral Students** *Ministry of Education, China*
- **First-class Graduate Scholarship** *Shanghai University of Finance and Economics*
- **Excellent Student Award** *Shanghai University of Finance and Economics*
- **First-class Undergraduate Scholarship** *Nanchang University*

INDUSTRY EXPERIENCE

- **Turing Fund Management**

Quantitative Research Intern (Reinforcement Learning)

Mar 2025 – Present

Shanghai, China

- Developed high-frequency execution models and implemented DQN/PPO algorithms within a hierarchical framework to optimize sample efficiency.

PROFESSIONAL MEMBERSHIPS

- **IEEE Student Membership** Jul 2025 – Present

REFERENCES

1. **Shaoli Wang** (Advisor), Associate Professor, Shanghai University of Finance and Economics. Email: swang@shufe.edu.cn
2. **Xingdong Feng** (Co-author), Professor, Shanghai University of Finance and Economics. Email: feng.xingdong@mail.shufe.edu.cn
3. **Xin Liu** (Co-author), Associate Professor, Shanghai University of Finance and Economics. Email: liu.xin@mail.shufe.edu.cn
4. **Caixing Wang** (Co-author), Assistant Professor, University of Southeast. Email: wangcaixing96@gmail.com
5. **Yibo Yan** (Co-author), Lecturer, Shanghai University of International Business and Economics. Email: yyb820nb@sina.com
6. **Shuyan Chen** (Co-author), Specially Appointed Associate Researcher, University of Science and Technology of China. Email: chenst@ustc.edu.cn