

YUANYUAN ZHANG

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EDUCATION

Tsinghua University
Ph.D., Statistics

Beijing, China
SEP 2017 - JAN 2021

RESEARCH INTERESTS

Nonparametric and Semi-Parametric Statistics; Time Series Analysis; Functional Data Analysis; Spatial Data Analysis; Quantile Regression

PUBLICATIONS

1. Haojie Dong, Huiming Zhang and **Yuanyuan Zhang*** (2025+). Non-asymptotic confidence regions in normed spaces. *Statistical Papers*. *Accepted*
2. Tong Zhang, **Yuanyuan Zhang***, Chen Zhong. (2025) Oracally efficient estimation and consistent model selection for spatial ARMA process with bivariate trend. *Journal of Time Series Analysis*. DOI: <https://doi.org/10.1111/jtsa.12847>
3. Chen Zhong, **Yuanyuan Zhang** and Lijian Yang* (2024). Inference and prediction for ARCH time series via innovation distribution function. *TEST in press* doi.org/10.1007/s11749-024-00949-3.
4. Zening Song, **Yuanyuan Zhang** and Lijian Yang* (2025). Hypotheses testing of functional principal components. *Statistica Sinica*, 35(1), 49-65.
5. Hanbing Zhu, Tong Zhang, **Yuanyuan Zhang*** and Heng Lian (2023). Estimation and inference in functional varying-coefficient single-index quantile regression models. *Journal of Nonparametric Statistics*, 1-30.
6. Hanbing Zhu, **Yuanyuan Zhang***, Yehua Li and Heng Lian (2023). Semiparametric function-on-function quantile regression model with dynamic single-index interactions. *Computational Statistics & Data Analysis*, 182(2023), 107727.
7. Guangqiang Teng, Boping Tian*, **Yuanyuan Zhang*** and Sheng Fu (2022). Conditional asymptotic for subsampling inference in the massive data GLMs: unbounded designed results. *Entropy*, 2023, 25(1), 84.
8. Yijun Xiao, Ting Yan*, Huiming Zhang*, and **Yuanyuan Zhang** (2020). Non-asymptotic oracle inequalities for weighted group Lasso in high-dimensional Cox models. *Journal of Inequalities and Applications*, 2020(1): 1-33.
9. **Yuanyuan Zhang**, Chienkai Wang, Fangfang Wu, Kun Huang, Lijian Yang and Linhong Ji* (2020). Prediction of working memory ability based on EEG by functional data analysis. *Journal of Neuroscience Methods*, 333, 108552.
10. **Yuanyuan Zhang**, Rong Liu, Qin Shao and Lijian Yang* (2020). Two-step estimation for time varying ARCH models. *Journal of Time Series Analysis*, 41(4): 551-570.
11. **Yuanyuan Zhang** and Lijian Yang* (2018). A smooth simultaneous confidence band for correlation curve. *TEST*, 27(2): 247-269.

TEACHING EXPERIENCE

Associate professor, Soochow University	<i>JUL 2025 - Present</i>
Lecturer, Soochow University	<i>JAN 2021 - JUL 2025</i>
Teaching Assistant, Nonparametric Statistics, Tsinghua University	<i>SEP 2018 - JAN 2019</i>
Teaching Assistant, Reliability Data and Survival Analysis, Tsinghua University	<i>MAR 2018 - JUL 2018</i>
Teaching Assistant, Computational Statistics, Tsinghua University	<i>SEP 2017 - JAN 2018</i>
Teaching Assistant, Applied Regression Analysis, Soochow University	<i>SEP 2015 - JAN 2016</i>

RESEARCH EXPERIENCE

Visiting Scholar, University of Vienna	<i>1-31 AUG, 2023</i>
Advisor: Dr. Tatyana Krivobokova	
Research on Bayesian smoothing splines	
Visiting Scholar, Iowa State University	<i>SEP 2019 - SEP 2020</i>
Advisor: Dr. Lily Wang	
Research on functional data and spatial data analysis	
Research Assistant, Tsinghua University	<i>SEP 2017 - Present</i>
Advisor: Dr. Lijian Yang	
Research on nonparametric and semi-parametric statistics, time series analysis and functional data analysis	
Research Assistant, Soochow University	<i>SEP 2014 - JUN 2017</i>
Advisor: Dr. Lijian Yang	
Research on nonparametric and semi-parametric statistics, time series analysis	

AWARDS

- 2019 Junior Researcher Award, ICSA, JUL 2019.
- Plan for Future Professors, Department of Industrial Engineering, Tsinghua University, NOV 2018.
- 2018 Excellent Poster Award, Peking University, JUN 2018.
- Excellent Master's Graduate Award, Soochow University, JUN 2017.
- Excellent Academic Graduate, Soochow University, JUN 2017.

PRESENTATION

- Contributed paper, The 3rd joint conference on statistics and data science in China, Hangzhou, China, July 11-13, 2025.
- Invited speaker, Suzhou Area Youth Mathematicians 4th Annual Workshop: Data and Finance, Duke Kunshan University, Kunshan, Suzhou, China, OCT 20-22, 2023.
- Chair, The 9th Renmin University of China International Statistical Forum, Renmin University of China, Beijing, China, June 13-15, 2023.
- Invited speaker, The 5th International Conference on Econometrics and Statistics (EcoSta 2022) (Virtual Conference), Ryukoku University, Kyoto, Japan, JUN 4-6, 2022.
- Contributed paper, 2021 Joint Statistical Meetings (Virtual Conference), America, AUG 8- AUG 12, 2021.
- Contributed paper, The 63rd ISI World Statistics Congress, Virtual, JUL 11-16, 2021.
- Contributed paper, The High-Dimensional Data Statistics Branch of the Chinese Society of Statistical Science, Lanzhou University, Lanzhou, China, JUL 1-5, 2021.

- Contributed paper, 2020 Joint Statistical Meetings (Virtual Conference), America, AUG 2- AUG 6, 2020.
- Contributed poster, 2019 Joint Statistical Meetings, Denver, USA, 27 July-2 August, 2019.
- Invited speaker, IMS-China 2019 Conference, Dalian University of Technology, Dalian, China, June 6-10, 2019.
- Invited speaker, 2019 ICSA China Conference, Nankai University, Tianjin, China, JUL 1-4, 2019. *2019 Junior Researcher Award*
- Invited speaker, The 3rd International Conference on Econometrics and Statistics (EcoSta 2019), National Chung Hsing University, Taichung, Taiwan, China, JUN 25-27, 2019.
- Invited speaker, 2019 ICSA Conference on Data Science, Xishuangbanna, Yunnan, China, JAN 11-14, 2019.
- Invited speaker, Nankai University, Tianjin, China, DEC 14, 2018.
- Invited speaker, Statistical Computing Challenges and Opportunities in Data Science, Beijing, China, November 9-11, 2018.
- Contributed speaker, Chinese Society of Probability and Statistics-The 11th National Congress, Southwestern University of Finance and Economics, Chengdu, Sichuan, China, OCT 27-30, 2018.
- Contributed speaker, 2018 Joint Statistical Meetings, Vancouver, Canada, July 28-August 2, 2018.
- Invited speaker, The 5th IMS Asia Pacific Rim Meeting (IMS-APRM), Singapore, June 26-29, 2018.
- Poster, The Third Peking-Tsinghua Joint Colloquium on Statistics, Peking University, Beijing, China, JUN 3, 2018. *2018 Excellent Poster Award*
- Contributed speaker, 2017 IMS-China International Conference on Statistics and Probability, Nan-ning, Guangxi, China, DEC 28-30, 2017.
- Poster, The Second Peking-Tsinghua Joint Colloquium on Statistics, Tsinghua University, Beijing, China, June 15, 2017.
- Contributed speaker, The 10th China-R Conference, Tsinghua University, Beijing, China, MAY 20-21, 2017.
- Poster, The First Peking-Tsinghua Joint Colloquium on Statistics, Peking University, Beijing, China, DEC 27, 2016.

GRANT

- National Natural Science Foundation of China, 12301357, 2024.01.01-2026.12.31
- China Postdoctoral Science Foundation, 2023M732544, 2023.06-2024.10
- Key University Science Research Project of Jiangsu Province, 21KJB110023, 2021.10-2023.9

PATENT

Lijian Yang, **Yuanyuan Zhang**, Kun Huang (2022). Physiological State Prediction Method, Computer Device, and Storage Medium. ZL202110180615.7, 29 NOV, 2022.

UNIVERSITY-ENTERPRISE COLLABORATIVE PROJECTS

Research on Forklift Intelligent Recognition and Positioning System Technology for Forklift, Jiangsu Zhilian Tiandi Technology Co., Ltd., Participant, Ongoing.

REFEREE SERVICE

- Statistica Sinica; Journal of Time Series Analysis; Stat; TEST; Statistical Papers

SOCIAL SERVICE

- Board member of the 7th Council of the Suzhou Society of Statistical Science, 2 DEC, 2024-1 DEC, 2029.

SKILLS

Computer Language	Visual FoxPro, C, JAVA
Statistical Applications	R, Python