Wei Zhang

+86-18256339032 | wei_zhang@stu.pku.edu.cn | ⏺ ZWCR7

Peking University, 5 Yiheyuan Road, Haidian District, Beijing, 100871, China

RESEARCH INTEREST

High-dimensional Statistics; Genetic Association Studies; Physics Informed Models; Functional Data Analysis; Deep Learning.

EDUCATION

- **Center for Statistical Science, Peking University** *Sep 2020 - July 2025 (Expected)*
  Ph.D. Statistics Beijing, China
- **School of Mathematics and Statistics, Wuhan University** *Mar 2017 - June 2020*
  Bachelor Wuhan, China
- **School of Remote Sensing and Information Engineering, Wuhan University** *Sep 2016 - Mar 2017*
  Wuhan, China

PUBLICATIONS, *CO-FIRST AUTHOR

[1] Fangzhi Luo, Wei Zhang* and Decai Liang (2022). **Test of Partial Separability for Multivariate Functional Data**. *Statistica Sinica*, published online, https://doi.org/10.5705/ss.202022.0370.

[2] Wei Zhang, Fan Wang and Fang Yao (2025). **Fast Signal Region Detection with Application to Whole Genome Association Studies**. *Journal of the American Statistical Association*, published online, https://doi.org/10.1080/01621459.2025.2464271.

[3] Fan Wang, Wei Zhang* and Fang Yao (2025). **Computationally Efficient Whole-Genome Signal Region Detection for Quantitative and Binary Traits**. *Annals of Applied Statistics*, published online, https://imstat.org/journals-and-publications/annals-of-applied-statistics/annals-of-applied-statistics-next-issues.

[4] Wei Zhang, Ying Yang and Fang Yao (2025+). **High-Dimensional Detection of Spatial Interference Effects via Low-Rank and Sparse Modeling**. Submitted to *Journal of Machine Learning Research*.

[5] Wei Zhang and Fang Yao (2025+). **Structural Change Detection in Dynamic Systems**. *In progress*.

CONFERENCES

- **The 13th National Conference on Probability and Statistics, Xiamen, China, 18th Nov – 21th Nov, 2024:** "Fast Signal Region Detection with Application to Whole Genome Association Studies". Invited Report.

TEACHING-ASSISSANT

- T.A., Advanced Algebra 1, Peking University (Autumn, 2020)
- T.A., Modern Statistical Models, Peking University (Spring, 2022)

SKILLS

- Proficient in statistical analysis and software (R, Python and Matlab)