Caixing Wang

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Research interests

Kernel methods, learning theory, quantile regression, distributed computing

Education

Shanghai University of Finance and Economics Shanghai, CN
PhD in Statistics 2019.09 − 2026.06
Supervisor: Professor Xingdong Feng, Associate Professor Xin He. *GPA: 3.74.*

Shanghai University of Finance and Economics Shanghai, CN
BA in Statistics 2015.09 − 2019.06
Supervisor: Professor Haibing Zhao *GPA: 3.68.*

Publications (Journal)

Communication-efficient nonparametric quantile regression via random features
Caixing Wang, Tao Li, Xinyi Zhang, Xingdong Feng, Xin He.
Journal of Computational and Graphical Statistics, 2024, 33: on-line.

A lack-of-fit test for quantile regression process models
Xingdong Feng, Qiaochu Liu, **Caixing Wang**. (Alphabet ordering)
Statistics & Probability Letters 192, 109680, 2023.

Publications (Conference)

Towards a unified analysis of kernel-based methods under covariate shift
Xingdong Feng, Xin He, **Caixing Wang**[*], Chao Wang, Jingnan Zhang. (Alphabet ordering, [*]Corresponding author)
Advances in Neural Information Processing Systems, 2023, 36: 73839-73851.

Distributed high-dimensional quantile regression: estimation efficiency and support recovery
Caixing Wang, Ziliang Shen.
Proceedings of the 41th International Conference on Machine Learning, 2024: to appear.

Optimal kernel quantile learning with random features
Caixing Wang, Xingdong Feng.
Proceedings of the 41th International Conference on Machine Learning, 2024: to appear.

Towards theoretical understanding of learning large-scale dependent data via random features

Chao Wang, Xin He, Xin Bing, **Caixing Wang***. (*Coresponding author).
Proceedings of the 41th International Conference on Machine Learning, 2024: to appear.

Working Papers   **Optimal transfer learning for kernel-based nonparametric regression**

Chao Wang†, **Caixing Wang**†, Xin He, Xingdong Feng. († Equal contribution)
submitted.

Deep nonparametric quantile regression under covariate shift
Xingdong Feng, Xin He, Yuling Jiao, Lican Kang, **Caixing Wang**. (Alphabet ordering)
Journal of the American Statistical Association, under review.

Teaching experience   **Teaching assistant**   Fall 2020-2024
Undergraduate Courses: Survival analysis, Extreme value theory.

Talks and tutorials   **Optimal transfer learning for kernel-based nonparametric regression**
2023,07
The 1st International Conference for PhD Pioneers 2023 (RUC), invited talk.

Towards a unified analysis of kernel-based methods under covariate shift   2024,04
The 2nd Conference for Chinese Statistical Association of Young Scholars (JNU), invited poster.