Hang Zhou

Department of Statistics, UC Davis

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Education

2022-- present	Postdoctoral researcher at UC Davis, Supervisor: Prof. Hans-Georg Müller and Jane-Ling Wang
2017 -- 2022	**Ph.D** in Statistics, Peking University. Supervisor: Prof. Fang Yao
2013 -- 2017	**B.S.** in Statistics, Nankai University

Research Interests

Functional and high-dimensional data analysis; complex-structured data analysis including manifold and Wasserstein types; ODE/PDE modeling, etc.

Awards & Honors

2020	Outstanding Poster Award in 2021 Peking-Tsinghua Joint Statistics Colloquium
2015	Third prize in the 7th-Mathematics competition of Chinese College Student
2015	Tianjin Government Scholarship, Nankai University, China
2014	First-class scholarship, Nankai University, China

Publications and preprints

1. **Hang Zhou**, Fang Yao and Huiming Zhang. Functional linear regression for discretely observed data: from ideal to reality. Biometrika 110.2 (2023): 381-393.

2. **Hang Zhou**, Zhenhua Lin and Fang Yao. Intrinsic Wasserstein correlation analysis. Statistica Sinica, in press. doi: 10.5705/ss.202023.0147, (2023+)

3. **Hang Zhou**, Dongyi Wei and Fang Yao. Theory of functional principal component analysis for noisy and discretely observed data. airXiv preprint: arXiv:2209.08768 (2023+)

4. **Hang Zhou** and Hans-Georg Müller. Optimal transport representations and functional principal components for distribution-valued processes. Under revision at Annals of Statistics. airXiv preprint: arXiv:2310.20088, (2023+)

5. **Hang Zhou**, Jonas Mueller, Mayank Kumar, Jane-Ling Wang and Jing Lei. Detecting Errors in Numerical Data via any Regression Model. Under revision of DMLR. airXiv preprint: arXiv:2305.16583, (2023+)

6. Álvaro Gajardo, Hans-Georg Müller and **Hang Zhou**. Wasserstein-Fréchet Integration of Conditional Distributions. (In revision at EJS) (2023+)

Teaching experience

Teaching Assistant at Peking University

Spring	2018	Calculus B	Spring	2020	Advanced linear algebra II
Fall	2018	Linear algebra	Fall	2020	Advanced linear algebra I
Spring	2019	Calculus B	Spring	2021	Advanced linear algebra II
Fall	2019	Advanced linear algebra I			

Talks

3. Theory of functional principal components analysis for noisy and discretely observed data. IMS New Researchers Conference 2023, Toronto, Canada. Aug. 3, 2023 **[5 minutes lightning talk]**

2. Theory of functional principal components analysis for noisy and discretely observed data. Emerging New Topics in Functional Data Analysis, NUS, Singapore. Jul. 20, 2023 **[invited]**

1. Theory of functional principal components analysis for noisy and discretely observed data. Joint Conference on Statistics and Data Science in China, Beijing, China. Jul. 11, 2023 **[invited]**

Expertise & Skills

Languages	Mandarin Chinese, English
Programming	R, Matlab, python, C++, LaTeX