

Curriculum Vitae



Dr Fan Zengyan

Lecturer, Data Science Programme
School of Science & Technology

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Education Qualifications

2017 PhD (Statistics), Nanyang Technological University, Singapore

Academic and Professional Experience

2020 - Present Lecturer, School of Science & Technology, SUSS

2017 - 2019 Research Fellow, Department of Statistics and Applied Probability, NUS

Membership & Professional Activities

2019 - Present Reviewer for International Journal of Machine Learning and Cybernetics

2016 - 2017 Member, American Statistical Association

2015 - 2016 Member, Statistical Society of Australia

Research Interests

- High dimensional statistical problems
- Functional neuroimaging data analysis
- Non-Euclidean data analysis
- Network data analysis

Selected Publications

Z. Yao, Z. Fan, M. Hayashi and W. F. Eddy. (2020) Quantifying time-varying sources in Magnetoencephalography – a discrete approach. *Annals of Applied Statistics*. to appear.

H. Lian, Z. Fan. (2018) Divide-and-conquer for debiased l_1 -norm support vector machine in ultra-high dimensions. *The Journal of Machine Learning Research*. 18 (1), 6691-6716.

Z. Fan and H. Lian. (2018) Quantile regression for additive coefficient models in high dimensions. *Journal of Multivariate Analysis*. 164, 54-64.

- Z. Fan and H. Lian. (2017) Interquantile shrinkage in additive models. *Journal of Nonparametric Statistics*. 29 (3), 561-576.
- H. Lian and Z. Fan. (2016) Minimax convergence rates for kernel CCA. *Journal of Multivariate Analysis*. 150, 183-190.
- H. Lian, J. Meng and Z. Fan. (2015) Simultaneous estimation of linear conditional quantiles with penalized splines. *Journal of Multivariate Analysis*. 141, 1-21.
- H. Lian and Z. Fan. (2015) Estimation of a sparse and spiked covariance matrix. *Journal of Nonparametric Statistics*. 27, 241-252.
- L. Zhao and Z. Fan. (2013) The number of small amplitude limit cycles in arbitrary polynomial systems. *Journal of Mathematical Analysis and Applications*. 407 (2), 237-249.

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