

Qin Fang

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| OFFICE ADDRESS | Room 4090 Discipline of Business Analytics University of Sydney H70 The Business School Building NSW 2006, Sydney, Australia. | <i>E-mail:</i> qin.fang@sydney.edu.au <i>WWW:</i> https://qinnnnnf.github.io/ |
| ACADEMIC POSITION | The University of Sydney , Business School, Sydney, Australia. Lecturer (Assistant Professor) in Business Analytics, January, 2024 – London School of Economics and Political Sciences , Department of Statistics, London, U.K. Research Officer, May 2022 – December 2023 <ul style="list-style-type: none">• Research project: “Statistical network analysis: model selection, differential privacy, and dynamic structures” funded by the EPSRC, under the direction of Prof. Qiwei Yao. | |
| EDUCATION | London School of Economics and Political Sciences , Department of Statistics, London, U.K. Ph.D., Statistics, January, 2019 – April, 2022 <ul style="list-style-type: none">• Thesis: High-dimensional functional data/time series analysis: finite-sample theory, adaptive functional thresholding and prediction• Advisor: Dr. Xinghao Qiao London School of Economics and Political Science , Department of Statistics, London, U.K. M.Sc., Statistics, September, 2016 – July, 2017 Central University of Finance and Economics , Department of Statistics, Beijing, China B.Sc., Statistics, September, 2012 – July, 2016 | |
| RESEARCH INTERESTS | Functional data analysis: high-dimensional functional data, partially observed functional data. Complex time series analysis: functional time series, high-dimensional time series. High-dimensional data analysis: simultaneous testing, covariance and graph estimation. Network data analysis: dynamic networks, sparse network estimation. | |
| PUBLICATIONS AND PREPRINTS | Fang, Q., Guo, S. and Qiao, X. (2023). Adaptive functional thresholding for sparse covariance function estimation in high dimensions, <i>Journal of the American Statistical Association</i> , accepted. Fang, Q., Guo, S. and Qiao, X. (2022). Finite sample theory for high-dimensional functional time series with applications. <i>Electronic Journal of Statistics</i> , 16 , 527-591. Chang, J., Fang, Q. ¹ , Qiao, X. and Yao, Q. (2023). On the modelling and prediction of high-dimensional functional time series, submitted to <i>Journal of the American Statistical Association</i> . | |
| WORKING PAPERS UNDER PREPARATION | Fang, Q., Jiang, Q. and Qiao, X. (2023). Large-scale multiple testing of cross-covariance functions with applications to functional network models, draft in progress. | |

¹The authors are alphabetically ordered.

Chang, J., Fang, Q., Kolaczyk, E.D., MacDonald, P.W. and Yao, Q. (2023). Autoregressive networks with dependent edges, draft in progress.

CONFERENCE PRESENTATIONS

Invited talk at Tsinghua Sanya International Workshop on “Complex time series analysis: high-dimensionality, change-points, forecasting and causality”, Sanya, China, Jan 2024.

Invited talk at Network Stochastic Processes and Time Series (NeST) Away Day and Annual Meeting, York, U.K., Oct 2023

Invited talk at Joint Statistical Meetings (JSM), Washington D.C., USA, August 2022.

Invited talk at 2022 IMS Annual Meeting in Probability and Statistics, London, U.K., June 2022.

Invited talk at 13th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, U.K., December 2020.

Invited talk at PGMO Days 2019, Paris, France, December 2019.

TEACHING EXPERIENCE

London School of Economics and Political Science, London, U.K.

- ST102 Elementary Statistical Theory 2022/23, 2019/20
- ST107 Quantitative Methods (Statistics) 2021/22, 2020/21
- ST309 Elementary Data Analytics 2023/24, 2022/23, 2021/22, 2020/21
- ST311 Artificial Intelligence 2021/22
- ST443 Machine Learning and Data Mining 2021/22, 2020/21, 2019/20

LSE-PKU Summer School, Beijing, China

- Big Data: Data Analytics for Business and Beyond August 2019

PROFESSIONAL SERVICES

Paper reviewers for *Journal of the Royal Statistical Society: Series B*, *Statistica Sinica*, *Journal of Computational and Graphical Statistics*.

Local organising committee for 2022 IMS Annual Meeting in Probability and Statistics

HONORS AND AWARDS

- LSE Class Teacher Awards (Highly Commended) 2022/2023, 2020/2021, 2019/2020
- LSE PhD Studentships 2019-2023
- Winton Prize for academic excellence in MSc Statistics/MSc Statistics (Financial Statistics) 2017
- First Prize in the LSE Statistics Practitioners Challenge 2017