

Qin Fang

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| OFFICE ADDRESS | Room 4090 Discipline of Business Analytics The University of Sydney H70 Abercrombie 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 | Chang, J., Fang, Q. ¹ , Qiao, X. and Yao, Q. (2024). On the modelling and prediction of high-dimensional functional time series, conditionally accepted by <i>Journal of the American Statistical Association</i> . 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> , 119 (546), 1473–1485. 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 (1), 527-591. Chang, J., Fang, Q., Kolaczyk, E. D., MacDonald, P. W. and Yao, Q. (2024). Autoregressive networks with dependent edges, submitted to <i>Journal of the Royal Statistical Society: Series B</i> . | |

¹The authors are alphabetically ordered.

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| | Fang, Q., Jiang, Q. and Qiao, X. (2024). Large-scale multiple testing of cross-covariance functions with applications to functional network models, submitted to <i>Journal of the American Statistical Association</i> . |
| WORKING PAPERS UNDER PREPARATION | <p>Chen, C., Fang, Q., and Qiao, X. (2024+). High-dimensional variable clustering for partially observed functional data.</p> <p>Fang, Q., Guo, S., Hong, Y. and Qiao, X. (2024+). Robust bias-corrected empirical likelihood for nonparametric functions with an application to regression discontinuity designs.</p> |
| CONFERENCE PRESENTATIONS | <p>Invited talk at the 7th International Conference on Econometrics and Statistics (EcoSta 2024), Beijing Normal University, Beijing, China, July 2024.</p> <p>Invited talk at “Recent advances in functional data analysis” Workshop, Macquarie University, Sydney, Australia, March 2024.</p> <p>Invited talk at Tsinghua Sanya International Workshop on “Complex time series analysis: high-dimensionality, change-points, forecasting and causality”, Sanya, China, Jan 2024.</p> <p>Invited talk at Network Stochastic Processes and Time Series (NeST) Away Day and Annual Meeting, York, U.K., Oct 2023.</p> <p>Invited talk at Joint Statistical Meetings (JSM), Washington D.C., USA, August 2022.</p> <p>Invited talk at 2022 IMS Annual Meeting in Probability and Statistics, London, U.K., June 2022.</p> <p>Invited talk at 13th International Conference of the ERCIM WG on Computational and Methodological Statistics, London, U.K., December 2020.</p> <p>Invited talk at PGMO Days 2019, Paris, France, December 2019.</p> |
| TEACHING EXPERIENCE | <p>The University of Sydney, Sydney, Australia.</p> <ul style="list-style-type: none"> • QBUS2820 Predictive Analytics 2024S2 • QBUS6600 Data Analytics for Business Capstone 2024S2 <p>London School of Economics and Political Science, London, U.K.</p> <ul style="list-style-type: none"> • 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 <p>LSE-PKU Summer School, Beijing, China</p> <ul style="list-style-type: none"> • Big Data: Data Analytics for Business and Beyond August 2019 |
| PROFESSIONAL SERVICES | <p>Paper reviewers for <i>Journal of the Royal Statistical Society: Series B</i>, <i>Journal of Machine Learning Research</i>, <i>Statistica Sinica</i>, <i>Journal of Computational and Graphical Statistics</i>.</p> <p>Local organising committee for 2022 IMS Annual Meeting in Probability and Statistics</p> |

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| 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 |