

Qin Fang

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>Website:</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., Qiao, X. and Yao, Q. (2024). On the modelling and prediction of high-dimensional functional time series, <i>Journal of the American Statistical Association</i> , in press. Fang, Q., Guo, S. and Qiao, X. (2024). 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, Reject & Resubmit at <i>Journal of the Royal Statistical Society: Series B</i> . 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 Royal Statistical Society: Series B</i> . Fang, Q., Guo, S., Hong, Y. and Qiao, X. (2025). On robust empirical likelihood for nonparametric	

	regression with application to regression discontinuity designs, ready to submit to <i>Journal of the American Statistical Association</i> .
WORKING PAPERS UNDER PREPARATION	<p>Fang, Q., Qiao, X. and Wang, Z. (2025+). Learning Gaussian chain graph models for high-dimensional time series.</p> <p>Fang, Q., Qiao, X. and Wang, X. (2025+). Functional dynamic tensor decomposition with application to modeling and forecasting multi-country yield curves.</p>
SIMINAR PRESENTATIONS	<p>Invited talk at the Department of Statistics, Universidade Federal do Rio Grande do Sul, Brazil, November 2024.</p> <p>Invited talk at the School of Economics, University of Sydney, Sydney, Australia, October 2024.</p> <p>Invited talk at the Business School, Macquarie University, Sydney, Australia, March 2024.</p> <p>Invited talk at the Discipline of Business Analytics, University of Sydney Business School, Sydney, Australia, February 2023.</p>
CONFERENCE PRESENTATIONS	<p>Invited talk at the 18th International Conference on Computational and Methodological Statistics (CMStatistics 2024), London, U.K., December 2024.</p> <p>Invited talk at the First Macau International Conference on Business Intelligence and Analytics, University of Macau, Macau, China, December 2024.</p> <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 the 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 the Network Stochastic Processes and Time Series (NeST) Away Day and Annual Meeting, York, U.K., Oct 2023.</p> <p>Invited talk at the 23rd European Young Statisticians Meeting, Ljubljana, Slovenia, September 2023.</p> <p>Invited talk at the Joint Statistical Meetings (JSM), Washington D.C., USA, August 2022.</p> <p>Invited talk at the 2022 IMS Annual Meeting in Probability and Statistics, London, U.K., June 2022.</p> <p>Invited talk at the 13th International Conference on Computational and Methodological Statistics (CMStatistics 2020), London, U.K., December 2020.</p> <p>Invited talk at the 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 2025S1, 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

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*, *Journal of Machine Learning Research*, *Statistica Sinica*, *Journal of Computational and Graphical Statistics*.

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

RESEARCH GRANTS

The University of Sydney Business School Emerging Scholar Research Grant 2024-2026

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