

## Qin Fang

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

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<sup>1</sup>The authors are alphabetically ordered.

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|  | Chang, J., Fang, Q., Kolaczyk, E. D., MacDonald, P. W. and Yao, Q. (2024). Autoregressive networks with dependent edges.   |
| WORKING PAPERS<br>UNDER<br>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). Empirical likelihood for nonparametric functions with applications to regression discontinuity designs: Robust bias-correction and Wilks phenomenon.</p>  |
| CONFERENCE<br>PRESENTATIONS            | <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<br>EXPERIENCE                 | <p><b>London School of Economics and Political Science</b>, London, U.K.</p> <ul style="list-style-type: none"> <li>• ST102 Elementary Statistical Theory 2022/23, 2019/20</li> <li>• ST107 Quantitative Methods (Statistics) 2021/22, 2020/21</li> <li>• ST309 Elementary Data Analytics 2023/24, 2022/23, 2021/22, 2020/21</li> <li>• ST311 Artificial Intelligence 2021/22</li> <li>• ST443 Machine Learning and Data Mining 2021/22, 2020/21, 2019/20</li> </ul> <p><b>LSE-PKU Summer School</b>, Beijing, China</p> <ul style="list-style-type: none"> <li>• Big Data: Data Analytics for Business and Beyond August 2019</li> </ul>  |
| PROFESSIONAL<br>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>   |
| HONORS AND<br>AWARDS                   | <p>LSE Class Teacher Awards (Highly Commended) 2022/2023, 2020/2021, 2019/2020</p> <p>LSE PhD Studentships 2019-2023</p> <p>Winton Prize for academic excellence in MSc Statistics/MSc Statistics (Financial Statistics) 2017</p> <p>First Prize in the LSE Statistics Practitioners Challenge 2017</p>  |