



Francesca Panero

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Education

- Oct 2017 – **PhD in Statistics**, *University of Oxford*.
 - Jun 2022 Oxford-Warwick Statistical Programme
- Sep 2015 – **MSc in Stochastics and Data Science**, *University of Turin, Italy*.
 - Jul 2017 Final grade: 110/110 *cum laude*
- Sep 2012 – **Allievi Honors Program**, *Collegio Carlo Alberto, Moncalieri, Italy*.
 - Jul 2017 Diploma in Economics *with distinction* and MA in Statistics and Applied Mathematics *with distinction*
- Sep 2012 – **BSc in Mathematics**, *University of Turin, Italy*.
 - Oct 2015 Final grade: 110/110 *cum laude*
- Sep 2007– **High School (with emphasis on Humanities)**, *"V. Alfieri", Turin, Italy*.
 - Jul 2012 Final grade: 98/100

Work experience

- Jul 2022 – **Assistant Professor**, *London School of Economics, London, UK*.
 - Present Department of Statistics
- Jul – Oct **Intern at J.P. Morgan Chase**, *London, UK*.
 - 2021 Associate Quantitative Researcher with expertise in applied ML/AI, trading team
- Mar – May **Visiting researcher at IDSIA**, *Lugano, Switzerland*.
 - 2021 Working with Dr Marco Scutari on fair ML models
- Winter 2020 **Visiting student at Duke University**, *Durham, North Carolina (USA)*.

Teaching Experience

- AY 2022/23 **Supervisor, Capstone Project ST498**, *graduate. Department of Statistics, LSE*.
- AY 2022/23 **Teaching Assistant, Deep Learning ST456**, *graduate. Department of Statistics, LSE*.
- AY 2022/23 **Teaching Assistant, Artificial Intelligence ST449**, *graduate. Department of Statistics, LSE*.
- 2018 – 2021 **Teaching Assistant, Applied Statistics**, *Department of Statistics, University of Oxford*.
 - 2019 **Tutor, Preliminary of Statistics and Data Science, Applied Statistics**, *Hertford College and Exeter College, University of Oxford*.

Publications and preprints

- 2023 **On sparsity, power-law and clustering properties of graphex processes.**
F. Caron, F. Panero, J. Rousseau. *Advances in Applied Probability*, to appear
- 2022 **Achieving fairness with a simple ridge penalty.**
M. Scutari, F. Panero, M. Proissl. *Statistics and Computing* 32, 77
- 2021 **Bayesian nonparametric disclosure risk assessment.**
S. Favaro, F. Panero, T. Rigon. *Electron. J. Statist.* 15(2): 5626-5651
- 2021 **Optimal disclosure risk assessment.**
F. Camerlenghi, S. Favaro, Z. Naulet, F. Panero. *The Annals of Statistics*, 49.2: 723-744
(All the authors contributed equally to the paper)

Refereed conference proceedings, discussions

- 2023 **A discussion on *Evaluating Sensitivity to the Stick-Breaking Prior in Bayesian Nonparametrics*, by R. Giordano, R. Liu, M. I. Jordan, T. Broderick.**
X. Miskouridou, F. Panero. *Bayesian Analysis*, to appear
- 2019 **Issues with Nonparametric Disclosure Risk Assessment.**
F. Camerlenghi, S. Favaro, Z. Naulet, F. Panero. *Book of short papers SIS 2019*

Working papers

- Sparse spatial random graphs.**
F. Panero, F. Caron, J. Rousseau.
- Dynamic communities in sparse networks.**
X. Miskouridou, F. Panero.

Talks and posters

- Mar 2023 **King's College London, seminar.**
Sparse spatial random graphs
- Dec 2022 **CMStatistics, invited session.**
Sparse spatial random graphs
- Dec 2022 **Department of Statistics, University of Oxford, talk.**
Achieving fairness with a simple ridge penalty
- Nov 2022 **QuantumBlack, McKinsey, talk.**
Achieving fairness with a simple ridge penalty
- Jun 2022 **ISBA World Meeting, poster.**
Bayesian nonparametric disclosure risk assessment
- Apr 2022 **BNP networking event, talk.**
Bayesian nonparametric disclosure risk assessment
- Dec 2021 **Department of Statistics, London School of Economics, seminar.**
Sparse spatial random graphs
- Jul 2021 **ISBA World Meeting, seminar.**
Sparse spatial random graphs
- Jun 2021 **Department of CS, University of the Italian Switzerland, Lugano, seminar.**
Sparse spatial random graphs

- Apr 2021 **Young Statisticians Europe (YSE)**, *seminar*.
Sparse spatial random graphs
- Mar 2021 **School of Mathematical Sciences, University of Nottingham**, *seminar*.
Sparse spatial random graphs
- Dec 2020 **CMStatistics**, *contributed session*.
Sparse spatial random graphs
- Aug 2020 **Duke Graduate Summer Talks**.
Sparse spatial random graphs
- Dec 2019 **CMStatistics**, *invited session*.
Optimal disclosure risk assessment
- Jul 2019 **Bocconi Summer School in Advanced Statistics and Probability, Como**, *poster*.
Sparse spatial random graphs
- Jun 2019 **Bayesian Nonparametrics 2019, Oxford**, *poster*.
Sparse spatial random graphs
- Jun 2019 **Italian Statistical Society 2019, Milan**, *invited session*.
Optimal disclosure risk assessment
- Mar 2019 **Workshop on Machine Learning, Amazon Development Centre Germany**, *poster*.
Sparse spatial random graphs
- Jun 2018 **ISBA World Meeting, Edinburgh**, *poster*.
Optimal disclosure risk assessment

Scholarships and awards

- Jun 2022 **Best Poster**, *ISBA 2022*.
- Jun 2022 **Travel grant**, *International Society of Bayesian Analysis, Montreal*.
- Apr 2022 **Travel grant**, *Bayesian Nonparametrics Networking Event, Nicosia*.
- Jul 2021 **Best Student/Postdoc Contributed Paper Award**, *ISBA 2021*.
- Sep 2017 – present **EPSRC full scholarship (4 years)**.
Scholarship covering salary, university fees and college fees for the entire length of the PhD.
- Sep 2012 – Jul 2017 **Allievi Honors Program full scholarship, Collegio Carlo Alberto, Moncalieri, Italy**.
Scholarship covering university fees.

Summer schools and workshops

- Nov 2021 **The Oxford Strategy Challenge**, *University of Oxford*.
Consultancy challenge, working with a team on a start-up marketing and strategy project
- May – Jun 2021 **SeedWISE**, *University of Oxford*.
Enterprise programme for women doing a PhD in STEM
- Jul 2019 **Bocconi Summer School in Advanced Statistics and Probability, Como, Italy**.
Random Graphs and Complex Networks: Structure and Function. Prof. R. van der Hofstad (Eindhoven University of Technology, NL), Prof. S. Bhamidi (University of North Carolina, USA)
- Aug 2016 **Summer school "Applied Bayesian Statistics"**, *Como, Italy*.
Bayes, Big Data, and the Internet.

Skills

Languages

Italian	Native speaker
English	Fluent
French	Intermediate
Spanish	Beginner

Computer skills

Advanced: R, Python (NumPy, SciPy, Pandas, TensorFlow, Keras), \LaTeX
Intermediate: GitHub, MATLAB, Microsoft Windows and Office (ECDL)
Basic: HTML, SAS, SQL, C++, CUDA

Miscellanea

- Organization** Co-organiser of Data Science Seminars, Department of Statistics, LSE (2022-).
Co-organiser of Women in Statistics, Department of Statistics, LSE (2022-). Committee member of ED&I discussion group in the Department of Statistics, Oxford (2020-22).
Co-organizer of the Oxford R Users Group (2018-19).
- Volunteering** Tutor for A-levels students in Mathematics to tackle educational inequalities, Oxford (2018-19). French and English teacher in Gabon and Congo (summers 2011 and 2013).
- Music** Playing piano. Conducting and singing in choirs. Co-founder of StatsChoir, Oxford.
- Sport** Rowing at college level at University of Oxford, committee member of St Peter's College Boat Club (2018-20). Yoga. Synchronized swimming.