



Francesca Panero

Curriculum Vitae

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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*

Work experience

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

Teaching Experience

- Oct 2022 – **Teaching Assistant, Artificial Intelligence**, *Department of Statistics, London School of Economics*.
Dec 2022
- Oct 2018 – **Teaching Assistant, Applied Statistics**, *Department of Statistics, University of Oxford*.
Jan 2021 Marking and showing solutions of problem sheets for 3rd year students of the BA in Mathematics. In person and virtual.
- Jan – Jun 2019 **Teaching Assistant, Preliminary of Statistics and Data Science, Applied Statistics**, *Hertford College and Exeter College, University of Oxford*.
Tutoring small groups of students.

Publications and preprints

- 2022 **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)

Working papers

Sparse spatial random graphs.

F. Panero, F. Caron, J. Rousseau.

Dynamic communities in sparse networks.

X. Miscouridou, F. Panero.

Talks and posters

- 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 Speaking 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 – **EPSRC full scholarship (4 years)**.
present Scholarship covering salary, university fees and college fees for the entire length of the PhD.
- Sep 2012 – **Allievi Honors Program full scholarship**, **Collegio Carlo Alberto**, Moncalieri, Italy.
Jul 2017 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

- English** Fluent
- French** Intermediate
- Italian** Native speaker

Computer skills

Advanced: R, Python (NumPy, SciPy, Pandas. PyCharm environment), \LaTeX

Intermediate: GitHub, MATLAB, Microsoft Windows and Office (ECDL)

Basic: HTML, SAS, SQL, C++, CUDA

Miscellanea

- Organization and volunteering** Co-organiser of Data Science Seminars, Department of Statistics, LSE. Committee member of ED&I discussion group in the Department of Statistics, Oxford. Co-organizer of the Oxford R Users Group. Tutor for A-levels students in Mathematics to tackle educational inequalities, Oxford (2018-19). Committee member of St Peter's College Boat Club. 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 (2018-2020). Yoga. Synchronized swimming.