



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)*.
- Oct 2018 – **Tutor and TA, Applied Statistics**, *Department of Statistics, University of Oxford*.
Jan 2021 Marking and showing solutions to problem sheets for students of BA in Mathematics

Publications and preprints

- 2021 **Achieving fairness with a simple ridge penalty**.
M. Scutari, F. Panero, M. Proissl. *arXiv:2105.13817*, major revisions.
- 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)
- 2019 **On sparsity, power-law and clustering properties of graphex processes.**
F. Caron, F. Panero, J. Rousseau. *arXiv:1708.03120*

Working papers

- 2022 **Sparse spatial random graphs.**
F. Panero, F. Caron, J. Rousseau.

Talks and posters

- 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 in speaking and writing
TOEFL exam (Oct 2016): 109/120
French Good speaking and writing skills
DELFB1 exam (Feb 2012): 92/100
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

Other skills

GRE exam (Sep 2016): Quantitative 170/170, Verbal 156/170, Analytical Writing 3.5

Extra-curricular activities

- Organization and volunteering** Committee member of EquiStats, ED&I discussion group in the Department of Statistics, Oxford. I co-organised discussions on diverse hiring practices, fair ML and Oxford Women in ML. I was co-organizer of the Oxford R Users Group and of the Statistics Green Team, committee member of St Peter's College Boat Club and Middle Common Room. Tutor for A-levels students in Mathematics from disadvantaged schools in Oxford. French and English teacher and children entertainer in Gabon and Congo (08/2011, 08/2013). Experiences with refugees in Southern Italy (summer 2015 and 2016).
- 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.