Francesca Panero

Curriculum Vitae

24-29 St Giles', OX1 3LB Oxford, United Kingdom
Gender: Female
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3rd year PhD student in Statistics at the University of Oxford, currently working on random graphs, both in terms of modeling and of asymptotic properties. In particular, I am studying a sparse spatial model for complex networks based on Bayesian nonparametric techniques, and sparsity, power-law and clustering properties of sparse random graphs. I previously worked on disclosure risk assessment.

Education

Oct. 2017 – Present	**DPhil student in Statistical Science (OxWaSP: Oxford - Warwick Statistical Programme)**, *University of Oxford*. Expected graduation date: October 2021
Oct. 2015 – Jul. 2017	**Senior Allievo, Allievi Honors Program**, *Collegio Carlo Alberto*, Moncalieri (TO). Master in Statistics and Applied Mathematics *with distinction*
Sept. 2015 – present	**M.Sc. in Stochastics and Data Science**, *Università degli Studi di Torino*. Final grade: 110/110 *cum laude*
Sept. 2012 – July 2015	**Junior Allievo, Allievi Honors Program**, *Collegio Carlo Alberto*, Moncalieri (TO). Diploma Allievi in Economics *with distinction*
Sept. 2012 – Oct. 2015	**Laurea in Matematica (Bachelor in Mathematics)**, *Università degli Studi di Torino*. Final grade: 110/110 *cum laude*
Sept. 2007– July 2012	**High School (with emphasis on Humanities)**, *Liceo Classico "V. Alfieri"*, Torino. Final grade: 98/100

Publications and Preprints

2019	**Optimal Disclosure Risk Assessment**, *(under revision at the Annals of Statistics)*. F. Camerlenghi, S. Favaro, Z. Naulet, **F. Panero**. ArXiv: 1902.05354

Working papers

2019	**On sparsity, power-law and clustering properties of graphex processes**. F. Caron, **F. Panero**, J. Rousseau.

Talks and posters

Dec. 2019	**CMStatistics**, *invided session*. Optimal disclosure risk assessment
Jul. 2019	**Bocconi Summer School in Advanced Statistics and Probability**, *poster*. Sparse spatial random graphs
Jun. 2019	**Bayesian Nonparametrics 2019**, *poster*. Sparse spatial random graphs
Jun. 2019	**Italian Statistical Society 2019**, *invited session*. Optimal disclosure risk assessment
Mar. 2019	**Workshop on Machine Learning, Computational Statistics and Applications, Amazon Development Centre Germany**, *poster*. Sparse spatial random graphs
Jun. 2018	**2018 ISBA World Meeting**, *poster*. Optimal disclosure risk assessment

Work Experience

Oct 2018 – Dec. 2019	**Tutor and TA in Applied Statistics**, *University of Oxford*. Marking and showing solutions to problem sheets for 3rd year students of the BA in Mathematics.
Apr. 2019 – Jun. 2019	**Tutor in Preliminary of Statistics and Data Science**, *University of Oxford*. Hertford College tutor.
Jan. 2019 – Mar. 2019	**Tutor in Applied Statistics**, *University of Oxford*. Tutoring a visiting student of the Exeter College-Williams Programme.
Sept. 2012 – Aug. 2017	**Private student tutor in Mathematics and Physics**, *Torino*. Tutoring high school and middle school students.
April 2015 – July 2015	**Collaboration project with *DB&B Consulting***, Torino. Thesis in collaboration with *DB&B Consulting*, risk management company.
Aug. 2015 – Sept. 2015	**Internship, Accounting office *RSM***, Torino. Working on voluntary disclosures.
Sept. 2014	**Speaker at the conference "Mathematics, Physics and Music"**, Torino. Lecturer for Alfaclass summer school of Mathematics, Fondazione CRT.

Scholarship and Awards

Sept. 2017 – present	**EPSRC full scholarship (4 years)**, *Oxford*. Scholarship covering salary, university fees and college fees.
Sept. 2012 – Jul. 2017	**Allievi Honors Program full scholarship, Collegio Carlo Alberto**, *Moncalieri (TO)*. Scholarship covering university fees.
Aug. 2016	**Scholarship for summer school "Applied Bayesian Statistics"**, *Como*. Summer school "Bayes, Big Data, and the Internet" held by Dr. Steven Scott, Google. Awarded according to merit criteria.
2016	**Erasmus scholarship**. Won, but refused, a six-months scholarship for University of Zurich (Switzerland). Awarded according to merit criteria.

Summer Schools

Jul. 2019	**Bocconi Summer School in Advanced Statistics and Probability**, *Como*. Random Graphs and Complex Networks: Structure and Function. Remco van der Hofstad (Eindhoven University of Technology, NL), Shankar Bhamidi (University of North Carolina, USA)
Aug. 2016	**Summer school "Applied Bayesian Statistics"**, *Como*. Bayes, Big Data, and the Internet. Dr. Steven Scott, Director of Statistics Research at Google
Sept. 2013	**Alfaclass summer school of Mathematics**, *Università degli Studi di Torino*. Fondazione CRT, Diderot Project

Skills

Languages

English	Fluent in speaking and writing **TOEFL exam** (Oct. 2016): 109/120
French	Good speaking and writing skills **DELF B1 exam** (Feb. 2012): 92/100
Italian	Native speaker

Computer Skills

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

Intermediate: MATLAB, Microsoft Windows and Office (ECDL: European Computer Driving Licence)

Advanced: Python, R, LaTeX

Other Skills

GRE exam (Sept. 2016):

Quantitative 170/170, Verbal 156/170, Analytical Writing 3.5.

Extra-Curricular Activities

Organization	Co-organizer of the R Users Group in Oxford. Water Safety Officer, Welfare Representative and Social Media Manager at St. Peter's College Boat Club. Sports Representative at St. Peter's College Middle Common Room. Co-founder of StatsChoir at the Department of Statistics, University of Oxford.
Volunteering	Volunteer tutor for A-level students in Mathematics in a school in Oxford. French and English teacher and entertainer for children in two one-month-long experiences in Oyem (Gabon, Aug. 2011) and Kafubu (Dem. Rep. of Congo, Aug. 2013) with Salesians of Don Bosco. Experiences with refugees in Southern Italy during summers 2015 and 2016. Children's entertainer for the parish *Santa Maria della Scala* in Moncalieri (2008 - 2012).
Music	Playing piano since 2002: Certificazione A at Conservatorio Alessandria (Oct. 2015) and Diploma Teoria e Solfeggio at Conservatorio Cuneo (June 2009). Conducting and singing in choirs.
Sport	Rowing at college level at University of Oxford (since 2018). Sinchronized swimming (2005 - 2011), regional competitions. Tennis.