



Francesca Panero

Curriculum Vitae

Gender: Female

Nationality: Italian

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3rd year PhD student in Statistics at the University of Oxford, currently working on networks models with Prof. Caron and Prof. Rousseau. Until May 2020 I am visiting Duke University (Durham, NC) under the supervision of Professor D. Dunson. In particular, I am now working on a sparse spatial model for complex networks based on Bayesian nonparametric techniques and, in parallel, on a new project to model multiscale networks for brain data.

I would really like to find a data science internship for Summer 2020 to apply and enlarge my skills!

Education

Feb. 2020 – **Visiting student at Duke University, Durham, North Carolina (USA).**
May 2020

Oct. 2017 – **DPhil student in Statistical Science (OxWaSP: Oxford - Warwick Statistical Programme), University of Oxford.**
Present
Expected graduation date: October 2021

Oct. 2015 – **Senior Allievo, Allievi Honors Program, Collegio Carlo Alberto, Moncalieri, Italy.**
Jul. 2017 Master in Statistics and Applied Mathematics *with distinction*

Sept. 2015 – **M.Sc. in Stochastics and Data Science, Università degli Studi di Torino, Italy.**
Jul. 2017 Final grade: 110/110 *cum laude*

Sept. 2012 – **Junior Allievo, Allievi Honors Program, Collegio Carlo Alberto, Moncalieri, Italy.**
July 2015 Diploma Allievi in Economics *with distinction*

Sept. 2012 – **Laurea in Matematica (Bachelor in Mathematics), Università degli Studi di Torino, Italy.**
Oct. 2015
Final grade: 110/110 *cum laude*

Sept. 2007– **High School (with emphasis on Humanities), Liceo Classico "V. Alfieri", Torino, Italy.**
July 2012 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. arXiv:1708.03120

Talks and posters

- Dec. 2019 **CMStatistics**, *invited 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 – **Tutor and TA in Applied Statistics**, *University of Oxford and Exeter College*.
- Dec. 2019 Marking and showing solutions to problem sheets for 3rd year students of the BA in Mathematics.
- Apr. 2019 – **Tutor in Preliminary of Statistics and Data Science**, *University of Oxford*.
- Jun. 2019 Hertford College tutor.
- Sept. 2012 – **Private student tutor in Mathematics and Physics**, *Torino*.
- Aug. 2017 Tutoring high school and middle school students.
- April 2015 – **Collaboration project with DB&B Consulting**, *Torino*.
- July 2015 Thesis in collaboration with *DB&B Consulting*, risk management company.
- Aug. 2015 – **Internship, Accounting office RSM**, *Torino*.
- Sept. 2015 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 – **EPSRC full scholarship (4 years)**, *Oxford*.
present Scholarship covering salary, university fees and college fees.
- Sept. 2012 – **Allievi Honors Program full scholarship, Collegio Carlo Alberto**, *Moncalieri (TO)*.
Jul. 2017 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

DELFB1 exam (Feb. 2012): 92/100

Italian Native speaker

Computer Skills

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

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

Advanced: Python (PyCharm environment), 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. Member of the committee at St. Peter's College Boat Club and Middle Common Room.

Volunteering Tutor for A-levels students in Mathematics from disadvantaged school 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 (since 2018). Synchronized swimming.