Website francescapanero.github.io **Work email** f.panero@lse.ac.uk

	Education
	PhD in Statistics , <i>University of Oxford</i> Oxford-Warwick Statistical Programme
	MSc in Stochastics and Data Science, <i>University of Turin, Italy</i> Final grade: 110/110 <i>cum laude</i>
•	Allievi Honors Program , <i>Collegio Carlo Alberto, Moncalieri, Italy</i> Diploma in Economics <i>with distinction</i> and MA in Statistics and Applied Mathematics <i>with distinction</i>
•	BSc in Mathematics , <i>University of Turin, Italy</i> Final grade: 110/110 <i>cum laude</i>
•	High School (with emphasis on Humanities) , "V. Alfieri", Turin, Italy Final grade: 98/100
	Work experience
	Assistant Professor (tenure-track), London School of Economics and Political Science, London, UK Department of Statistics
•	Researcher , <i>University of Oxford</i> , Oxford, UK Part-time researcher for the MPLS division on ED&I topics related to admission data.
	Intern at J.P. Morgan Chase , <i>London, UK</i> Associate Quantitative Researcher with expertise in applied ML/AI, trading team
-	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 and supervision experience
	Teaching
AY 2023/24	Lecturer, Deep Learning ST456, 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

and Exeter College, University of Oxford

Supervision

2019 Tutor, Preliminary of Statistics and Data Science, Applied Statistics, Hertford College

- AY 2023/24 Capstone Project ST498, MSc Data Science. Department of Statistics, LSE Supervision of a group of four students
- AY 2023/24 **MSc thesis supervision**, *MSc Statistics. Department of Statistics, LSE* joint with Dr K. Kalogeropoulos and Dr S. Geneletti
 - 2023- **PhD supervision**, *Department of Statistics, LSE* Second supervisor of Xianghe Zhu, first Prof. Q. Yao
- AY 2022/23 Capstone Project ST498, MSc Data Science. Department of Statistics, LSE Supervision of a group of four students, in collaboration with Deutsche Bank

Research production

Publications and preprints

- 2023 On sparsity, power-law and clustering properties of graphex processes F. Caron, F. Panero, J. Rousseau. *Advances in Applied Probability, 1-43*
- Achieving fairness with a simple ridge penalty
 M. Scutari, F. Panero, M. Proissl. Statistics and Computing 32, 77
- Bayesian nonparametric disclosure risk assessment
 Favaro, F. Panero, T. Rigon. Electron. J. Statist. 15(2): 5626-5651
- 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. Miscouridou, F. Panero. Bayesian Analysis
- 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. Miscouridou, F. Panero

Forecasting food insecurities with Gaussian Processes

S.Ishida, G. Martini, F. Panero

Evaluating uncertainty in fair GLM

F. Panero, M. Scutari, E. Witt

Talks and posters

- Dec 2023 **ICSDS 2023, Lisbon**, *contributed session*Achieving fairness with a simple ridge penalty
- Nov 2023 **School of Mathematics, University of Edinburgh**, seminar Sparse spatial random graphs
- Nov 2023 World Food Programme, Rome, seminar

Forecasting food insecurities with Gaussian Processes

Oct 2023	Department of Statistics, University College London , <i>reading group</i> Achieving fairness with a simple ridge penalty
Sep 2023	Cladag 2023, Salerno, invited session Sparse spatial random graphs
Jun 2023	Department of Mathematics and Statistics, Lancaster University, reading group Sparse spatial random graphs
Jun 2023	Statistics Research Showcase, LSE, seminar Sparse networks with Bayesian nonparametrics
May 2023	Department of Statistics, Università degli Studi di Padova, seminar Achieving fairness with a simple ridge penalty
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 , <i>seminar</i> Achieving fairness with a simple ridge penalty
Nov 2022	QuantumBlack, McKinsey, seminar Achieving fairness with a simple ridge penalty
Jun 2022	ISBA World Meeting, poster Bayesian nonparametric disclosure risk assessment
Apr 2022	BNP networking event, contributed session Bayesian nonparametric disclosure risk assessment
Dec 2021	Department of Statistics, London School of Economics, seminar Sparse spatial random graphs
Jul 2021	ISBA World Meeting, contributed session 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, invided 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	

- 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

Awards

- Mar 2023 **Research and Impact Support Fund**, *LSE*, Principal investigator of the project "Forecasting food insecurities with Gaussian Processes" ($\pounds 20000$). In collaboration with the United Nation World Food Programme.
- 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.

Service to profession

Organisation

- 2022- Co-organiser of Data Science Seminars, Department of Statistics, LSE.
- 2022- Co-organiser of Women in Statistics, Department of Statistics, LSE.
- 2018-2022 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).

Referee service

Artificial Intelligence and Statistics Conference. Bayesian Analysis. Electronic Journal of Statistics. Fairness, Accountability, and Transparency Conference. Statistical Science.

Public engagement

- Mar 2022 Organiser and moderator of the EquiStats event "Oxford women in Machine Learning", University of Oxford
- Jun 2021 Organiser and co-speaker of the EquiStats event "Fairness in ML", University of Oxford
- 2018 2019 Co-organiser R Users Group, Oxford
 - Jun 2018 Oxford Maths Festival, Department of Mathematics, University of Oxford

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

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 SeedWISE, University of Oxford
 - 2021 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.