

FRANCESCA PANERO

Curriculum Vitae

London
4th March 2024

Part I – General Information

Full Name	Francesca Panero
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Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
PhD	2022	University of Oxford	PhD in Statistical Science
Master	2017	Università degli Studi di Torino	Laurea Magistrale in Stochastic and Data Science (LM-40)
Master	2017	Collegio Carlo Alberto	Master in Applied Mathematics and Statistics
Bachelor	2015	Università degli Studi di Torino	Laurea Triennale in Matematica (L-35)
Additional degree	2015	Collegio Carlo Alberto	Diploma in Economics

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
July 2022	Present	London School of Economics and Political Science	Assistant Professor (Tenure Track), Department of Statistics

IIIB – Other Appointments

Start	End	Institution	Position
4.2022	6.2022	University of Oxford, MPLS Division	Researchers on ED&I applications
6.2021	10.2021	J.P. Morgan Chase, London	Associate Quantitative Researcher, internship
3.2021	5.2021	Istituto Dalle Molle per l'Intelligenza Artificiale, Lugano	Visiting scholar

Part IV – Teaching experience

Year	Institution	Lecture/Course
2023-24	London School of Economics and Political Science	Lectures, Deep Learning (MSc) Tutorials, Deep Learning (MSc)
2023-24	London School of Economics and Political Science	Lecture on Deep Learning at the PhD course Foundations of Machine Learning
2022-23	London School of Economics and Political Science	Tutorials, Artificial Intelligence (MSc)
2022-23	London School of Economics and Political Science	Tutorials, Deep Learning (MSc)
2017-2021	University of Oxford	Teaching Assistant and Class Tutor, Applied Statistics (BSc level)

Part V - Society memberships, Awards and Honors

Year	Title
2022	Best poster and travel grant. International Society of Bayesian Analysis (ISBA) World Meeting, Montreal
2021	Best Student/Postdoc Contributed Paper Award, ISBA World Meeting
2022	Travel grant, Bayesian Nonparametrics networking event, Nicosia
2017 - 2022	EPSRC full scholarship (4 years). Scholarship covering salary, university fees and college fees for the entire length of the PhD.
2012 - 2017	Allievi Honors Program scholarship, Collegio Carlo Alberto, Moncalieri. Scholarship covering part of university fees.
2018-present	Member of ISBA
2023	Member of IMS

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2022	Forecasting food insecurities with Gaussian Processes	Research and Impact Support Fund, London School of Economics	£20000

Part VII – Research Activities

Keywords	Brief Description
Bayesian models	Bayesian modelling for various applications. Particular focus on Bayesian nonparametrics.

Networks models	Bayesian Nonparametric models for large and sparse complex networks.
Privacy, disclosure	Statistical models to quantify the risk of disclosure.
Fair ML	Statistical models with fairness guarantees
Social applications	Modelling global and local food insecurity with Gaussian Processes

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	4	Scopus	2021	2023
Proceedings [conference]	2	NA	2019	2023
Discussions	1	NA	2023	2023
PhD thesis	1	NA	2022	2022

Total Impact factor	$6.5+1.7+3.6+1.8 = 13.6$
Total Citations	3
Average Citations per Product	$3/4 = 0.75$
Hirsch (H) index	1
Normalized H index*	1

*H index divided by the academic seniority.

Part IX– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

IX A - Articles in a journal (FASCIA A)

1. Camerlenghi, F., Favaro, S., Naulet, Z., & Panero, F. (2021). *Optimal disclosure risk assessment*. *Annals of Statistics*, 49(2), 723-744.
doi:10.1214/20-AOS1975
ISSN 0090-5364
Citations: 3
2. Favaro, S., Panero, F., & Rigon, T. (2021). *Bayesian nonparametric disclosure risk assessment*. *Electronic Journal of Statistics*, 15(2), 5626-5651.
doi:10.1214/21-EJS1933
ISSN 1935-7524
Citations: 0
3. Scutari, M., Panero, F., & Proissl, M. (2022). *Achieving fairness with a simple ridge penalty*. *Statistics and Computing*, 32(5), 77.

doi:10.1007/s11222-022-10143-w
 ISSN 0960-3174
 Citations: 0

4. Caron, F., Panero, F., & Rousseau, J. (2023). *On sparsity, power-law, and clustering properties of graphex processes*. *Advances in Applied Probability*, 1-43.
 doi:10.1017/apr.2022.75
 ISSN 0001-8678
 Citations: 0

IX B - Other contributions

PhD Thesis

5. Panero, F. (2022) *Power-law phenomena in Bayesian nonparametrics*. PhD Thesis.

Discussions

6. A contributed discussion (pages 348-351) by Miscouridou, X., & Panero, F. on: Giordano, R., Liu, R., Jordan, M. I., & Broderick, T. (2023). *Evaluating Sensitivity to the Stick-Breaking Prior in Bayesian Nonparametrics (with Discussion)*. *Bayesian Analysis*, 18(1), 287-366.
 doi:10.1214/22-BA1309
 ISSN 1936-0975

Contributions in Conference Proceedings

7. Camerlenghi, F., Favaro, S., Naulet, Z., & Panero, F. (2019). *Issues with Nonparametric Disclosure Risk Assessment*. *Smart Statistics for Smart Applications*. Book of short papers SIS2019, 133-139. ISBN 9788891915108
8. Panero, F. (2023) *Issues with sparse spatial random graphs*. *BOOK OF ABSTRACTS AND SHORT PAPERS 14th Scientific Meeting of the Classification and Data Analysis Group Salerno, September 11-13, 2023*. ISBN 978-88-9193-563-2

Part X – Supervision

Year	Institution	Lecture/Course
2023-2024	London School of Economics and Political Science	Capstone Project ST498, MSc Data Science. Supervision of a group of four students, in collaboration with KPMG.
2023-present	London School of Economics and Political Science	Trevor Wroblewski (MSc research supervision), joint with K. Kalogeropoulos, S. Geneletti
2023-present	London School of Economics and Political Science	Xianghe Zhu (second supervisor)
2022-2023	London School of Economics and Political Science	Capstone Project ST498, MSc Data Science. Supervision of a group of four students, in collaboration with Deutsche Bank.

Part XI – Presentations

XI A - Seminars

Date	Title	Place
Nov 2023	Sparse spatial random graphs	School of Mathematics and Statistics, University of Edinburgh
Nov 2023	Forecasting food insecurities with Gaussian Processes	World Food Programme, Rome
Sep 2023	Achieving fairness with a simple ridge penalty	Department of Statistics, University College London
Jun 2023	Sparse spatial random graphs	Department of Mathematics and Statistics, Lancaster University
Jun 2023	Sparse networks with Bayesian nonparametrics	Statistics Research Showcase, LSE
May 2023	Achieving fairness with a simple ridge penalty	Department of Statistics, Università degli Studi di Padova
May 2023	Sparse networks with Bayesian nonparametrics	Department of Mathematics, King's College London
Dec 2022	Achieving fairness with a simple ridge penalty	Department of Statistics, University of Oxford
Nov 2022	Achieving fairness with a simple ridge penalty	QuantumBlack, McKinsey, London
Dec 2021	Sparse spatial random graphs	Department of Statistics, LSE
Jun 2021	Sparse spatial random graphs	Department of Computer Science, University of the Italian Switzerland
May 2021	Sparse spatial random graphs	School of Mathematical Sciences, University of Nottingham
Aug 2020	Sparse spatial random graphs	Duke Graduate Summer Talks, Duke University

XI B - Invited talks

Sep 2023	Sparse networks with a latent structure	CLADAG, Salerno
Dec 2022	Sparse spatial random graphs	CMStatistics, London
Apr 2021	Sparse spatial random graphs	Young Statisticians Europe (YSE), online

Jun 2019	Optimal disclosure risk assessment	Smart Statistics for Smart Applications, Milan
Dec 2019	Optimal disclosure risk assessment	CMStatistics, London

XI C - Contributed talks

Dec 2023	Achieving fairness with a simple ridge penalty	ICSIDS, Lisbon
Jul 2023	Bayesian nonparametric disclosure risk assessment	Greek Stochastics v, Naxos
Apr 2022	Bayesian nonparametric disclosure risk assessment	BNP networking event, Nicosia
Jul 2021	Sparse spatial random graphs	ISBA World Meeting, online
Dec 2020	Sparse spatial random graphs	CMStatistics

XI D - Posters

Jun 2022	Bayesian nonparametric disclosure risk assessment	ISBA World Meeting, Montreal
Jul 2019	Sparse spatial random graphs	Bocconi Summer School in Advanced Statistics and Probability, Como
Jun 2019	Sparse spatial random graphs	Bayesian Nonparametrics conference, Oxford
Mar 2019	Sparse spatial random graphs	Workshop on Machine Learning, Amazon Development Centre, Berlin
Jun 2018	Optimal disclosure risk assessment	ISBA World Meeting, Edinburgh

Part XII – Service to profession and department

XII A - Referee service

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

XII B - Service to Department

2022 - present	Co-organiser of Statistics and Data Science seminars, London School of Economics
2022 - present	Co-ordinator of Women in Statistics, London School of Economics
2020 - 2022	Co-founder ED&I group “EquiStats”, Department of Statistics, University of Oxford

XII C - 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

XII D – Conference organization

Sep 2024	Organiser of the invited session “Bayesian spatio-temporal models that don’t take ages” at the RSS International Conference 2024, Brighton
Jun 2019	Helping the local organisers at the Bayesian Nonparametrics (BNP) conference 2019, Oxford

London, 4th March 2024
 Francesca Panero

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del D.P.R. 445/2000. Autorizzo la pubblicazione ai sensi del D.Lgs. n. 33/2013 “Riordino della disciplina riguardante gli obblighi di pubblicità, trasparenza e diffusione di informazioni da parte delle pubbliche amministrazioni” e acconsento all’utilizzo delle informazioni ivi contenute ai sensi del D.L. n. 196/2003

“Codice in materia di protezione dei dati personali”.