Francesco GAFFI

CURRENT POSITION: Postdoctoral Associate in Statistics
Department of Mathematics
University of Maryland, College Park, MD, USA
EMAIL: fgaffi@umd.edu

EDUCATION

2023	Ph.D. in STATISTICS, *with honors* **Bocconi University** Milano, Italy Supervisors: Antonio Lijoi and Igor Prünster Thesis: Modeling with discrete random probability measures
2018	M.Sc. in PURE AND APPLIED MATHEMATICS, *with honors* **Università di Roma Tor Vergata** Italy Supervisor: Domenico Marinucci Thesis: Functional data analysis on $\mathcal{L}^2\left(\mathbb{S}^2\right)$
2016	B.Sc. in MATHEMATICS **Università di Roma Tor Vergata** Italy
2014	M.Mus. in ORCHESTRAL REPERTOIRE AND CHAMBER MUSIC, *with honors* **Conservatorio Licinio Refice** Frosinone, Italy
2011	B.Mus. in CLARINET **Conservatorio Licinio Refice** Frosinone, Italy

ACADEMIC POSITIONS

2024 - CURRENT	**Postdoctoral Associate**, University of Maryland, College Park, MD, USA
2023 - 2024	**Postdoctoral Fellow**, University of Notre Dame, IN, USA
2022 - 2023	**Ph.D. Candidate**, Bocconi University, Milano, Italy
2018 - 2022	**Ph.D. Student**, Bocconi University, Milano, Italy

INDUSTRY EXPERIENCE

2016 - 2017	**Quantitative analyst intern**, Ladbrokes Coral, Roma, Italy

Awards&Funding

2023	Robert and Sara Lumpkins Postdoctoral Fellowship (3.5 years), University of Notre Dame
	Student Paper Award, American Statistical Association - Section on Bayesian Statistical Science
2022	Special financial support for PhD candidates, Bocconi University and Fondazione Invernizzi
	ISBA2022 Travel Award, International Society for Bayesian Analysis
	BNP2022 Travel Award, International Society for Bayesian Analysis
2018	PhD Scholarship (4 years), Bocconi University
2014	'V. Mancini' Rotary Award for Best Graduate Student - Winds Section, Conservatorio Licinio Refice

Editorial activity

Reviewer for *Electronic Journal of Statistics*, *Journal of the American Statistical Association*, *Statistics and Probability Letters*, *Journal of Econometrics*

Research networks and societies

Member of	International Society for Bayesian Analysis, ISBA
	Institute of Mathematical Statistics, IMS
	BayesLab of Bocconi Institute for Data Science and Analytics, BIDSA
	Complex Data Modeling Research Network, led by MiDaS
	Società Italiana di Statistica, SIS
	International Indian Statistical Society, IISA
	American Statistical Society, ASA
Organizer of	BayesLab reading group

Publications

Working papers

Gaffi, F., Josephs, N., Lin, L. **Nonparametric priors for graph matching**.

Franzolini, B., Gaffi, F. **An invariance-based approach to community detection in dynamic networks**.

Gaffi, F., Lijoi, A., Prünster, I. **Transition probabilities of continual Young diagrams and Dirichlet random means**.

Journal papers

Durante D., Gaffi F., Lijoi, A., Prünster, I. (2023). **Partially exchangeable stochastic block models for multilayer networks.** *In revision.* [2023 ASA-SBSS Student Paper Award winner]

Gaffi, F., Lijoi, A., Prünster, I. (2022). **Random probability measures with fixed mean distribution.** *Under review.*

Conference proceedings

Gaffi, F., Lijoi, A., Prünster, I. (2022). **Specification of the base measure of nonparametric priors via random means.** In *New Frontiers in Bayesian Statistics - BAYSM2021*, Argiento, R., Camerlenghi, F., Paganin, S. eds, pages 91-100, vol. 405, Springer Proceedings in Mathematics and Statistics. Springer, Cham.

Theses

GAFFI, F. (2023). **Modelling with discrete random probability measures.** Bocconi University, Milano.

GAFFI, F. (2018). **Functional data analysis on $\mathcal{L}^2(\mathbb{S}^2)$.** Università di Roma Tor Vergata, Roma.

Teaching related

FORTINI, S., GAFFI, F. (2021). **Introduction to Probability. BAI 30456.** Bai series. Volume 2. Egea, Milano.

PRESENTATIONS

Invited talks

SEPTEMBER 2024	**Frontiers of Bayesian Inference and Data Science**, Casa Matemática Oaxaca, Mexico.
AUGUST 2024	**Bernoulli-IMS2024**, 11th World Congress in Probability and Statistics, Ruhr University Bochum, Germany.
JULY 2024	**ISBA2024**, World Meeting of the International Society for Bayesian Analysis, Università Ca' Foscari, Venezia, Italy.
JUNE 2024	**Fourth Italian Meeting on Probability and Mathematical Statistics**, Roma, Italy.
AUGUST 2023	**JSM2023**, Joint Statistical Meetings, Toronto, Canada.
	EcoSta2023, 6th International Conference on Econometrics and Statistics, Waseda University, Tokyo, Japan.
JUNE 2023	**10th International Purdue Symposium on Statistics**, Purdue University, West Lafayette, USA.
DECEMBER 2022	**IISA2022**, International Indian Statistical Association Conference, Indian Institute of Science, Bengaluru, India.
JUNE 2022	**Third Italian Meeting on Probability and Mathematical Statistics**, Alma Mater Studiorum, Bologna, Italy.
JUNE 2021	**EcoSta2021**, 4th International Conference on Econometrics and Statistics, virtual.

Contributed talks

NOVEMBER 2023	**BaYSM2023**, Bayesian Young Statisticians Meeting, virtual.
JUNE 2022	**ISBA2022**, World Meeting of the International Society for Bayesian Analysis, Montréal, Canada.
APRIL 2022	**BNP2022**, BNP Networking event, University of Cyprus, Nicosia, Cyprus.
SEPTEMBER 2021	**BaYSM2021**, Bayesian Young Statisticians Meeting, virtual.
JUNE 2021	**ISBA2021**, World Meeting of the International Society for Bayesian Analysis, virtual.
	ISBA@CIRM, Junior session of ISBA2021 mirror event, Centre International de Rencontres Mathématiques, Marseille, France.

Poster sessions

JUNE 2023	**Approximation Methods in Bayesian Analysis**, Centre International de Rencontres Mathématiques, Marseille, France.
OCTOBER 2022	**BNP13**, 13th International Conference on Bayesian Nonparametrics, Puerto Varas, Chile.

Summer Schools

July 2019	*Random graphs and complex networks: structure and function*, Bocconi Summer School in Advanced Statistics and Probability, Como, Italy

Teaching

2024 - current	**Lecturer**, University of Maryland, College Park
	★ Applied probability and statistics, B.Sc. in Computer Science
2023 - 2024	**Lecturer**, University of Notre Dame
	★ Probability, B.Sc. in Applied and Computational Mathematics and Statistics
2020 - 2023	**Adjunct lecturer**, Bocconi University
	★ Probability, B.Sc. in Mathematics for AI (2 semesters)
	★ Probability, Ph.D. in Economics and Finance (3 semesters)
	★ Statistics, B.Sc. in Economics (2 semesters)
2019 - 2023	**Teaching assistant**, Bocconi University
	★ Optimal control, M.Sc. in Data Science (3 semesters)
	★ Statistics, B.Sc. in Economics (4 semesters)
	★ Stochastic processes, M.Sc. in Data Science (4 semesters)
	★ Probability, B.Sc. in Mathematics for AI (2 semesters)
2017 - 2018	**Teaching assistant**, Università di Roma Tor Vergata
	★ Discrete mathematics, B.Sc. in Computer Science

Computer skills

Programming languages:	C/C++, Latex
Software:	R, Matlab
Environments:	Microsoft Windows, Linux distributions