

Francesco GAFFI

CURRENT POSITION: Postdoctoral Associate in Statistics
Department of Mathematics
University of Maryland, College Park, MD, USA
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EDUCATION

2023	Ph.D. in STATISTICS, <i>with honors</i> 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, <i>with honors</i> Università di Roma Tor Vergata Italy Supervisor: Domenico Marinucci Thesis: Functional data analysis on $\mathcal{L}^2(\mathbb{S}^2)$
2016	B.Sc. in MATHEMATICS Università di Roma Tor Vergata Italy
2014	M.Mus. in ORCHESTRAL REPERTOIRE AND CHAMBER MUSIC, <i>with honors</i> 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
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AWARDS&FUNDING

2024	ISBA2024 Travel Award, University of California, Los Angeles
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

SERVICE

Reviewer	<i>Bayesian Analysis</i> <i>Electronic Journal of Statistics</i> <i>Journal of the American Statistical Association</i> <i>Journal of Econometrics</i> <i>Statistics and Probability Letters</i>
Committee member	2024 ASA-SBSS Student Paper Award

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. **Exchangeable permutation priors for graph matching.**

FRANZOLINI, B., GAFFI, F. **An invariance-based approach to node clustering 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.** *To appear in Annals of Applied Probability.*

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-Universität Bochum, Germany.
JULY 2024	ISBA2024 , World Meeting of the International Society for Bayesian Analysis, Università Ca' Foscari, Venezia, Italy.
JUNE 2024	Satellite workshop to ISBA World Meeting , Università della Svizzera Italiana, Lugano, Switzerland. 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 2024	BaYSM2024 , Bayesian Young Statisticians Meeting, Università Ca' Foscari, Venezia.
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	<i>Random graphs and complex networks: structure and function</i> , Bocconi Summer School in Advanced Statistics and Probability, Como, Italy
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TEACHING

2024 - CURRENT	Lecturer , University of Maryland, College Park <ul style="list-style-type: none"> ★ Applied probability and statistics, B.Sc. in Computer Science
2023 - 2024	Lecturer , University of Notre Dame <ul style="list-style-type: none"> ★ Probability, B.Sc. in Applied Mathematics and Statistics
2020 - 2023	Adjunct lecturer , Bocconi University <ul style="list-style-type: none"> ★ 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 <ul style="list-style-type: none"> ★ 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 <ul style="list-style-type: none"> ★ Discrete mathematics, B.Sc. in Computer Science

COMPUTER SKILLS

Programming languages:	C/C++, LATEX
Software:	R, MATLAB
Environments:	Microsoft Windows, Linux distributions