# Marta Catalano

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https://martacatalano.github.io

### **Current Academic Positions**

Feb 2021 – Present	Postdoctoral researcher at the University of Torino under the supervision of Pierpaolo De Blasi.
Sep 2020 – Present	Research affiliate of the "de Castro" statistics initiative at Collegio Carlo Alberto, Torino.
Jun 2020 – Present	Research affiliate of the Bayes Lab at the Bocconi Institute for Data Science and Analytics (BIDSA)

### Education

2016 – 2021 (Feb 1)	Ph.D. in Statistics at Bocconi University (Milan, Italy). Advisors: Antonio Lijoi and Igor Prünster. Thesis: On complex dependence structures in Bayesian nonparametrics: a distance-based approach.
2016 – 2017	Master in Big Data Analytics & Social Mining at Pisa University and CNR (Italy). Advisor: Paolo Ferragina.  Thesis: Information retrieval on Arpi dataset. Grade: Excellent.
2012 - 2015	M.Sc. in Mathematics at Sapienza University of Rome (Italy). Advisors: Domenico Fiorenza and Paolo Papi. Thesis: Planar 2-algebras and Khovanov homology. Grade: 110/110 with honors.
2012 - 2013	Erasmus program at École Normale Supérieure de Lyon (France).
2009 – 2012	<b>B.Sc. in Mathematics</b> at Sapienza University of Rome (Italy). Advisor: Domenico Fiorenza.  Thesis: Crystallographic groups. Grade: 110/110 with honors.

### **Pubblications**

### ▶ Preprints

 Catalano, M., De Blasi, P., Lijoi, A., Prünster, I. (2021+). Posterior asymptotics for boosted hierarchical Dirichlet process mixtures. Submitted.

# ▷ Refereed Journals

- 1. Catalano, M., Lijoi, A., Prünster, I. (2021). Measuring dependence in the Wasserstein distance for Bayesian nonparametric models. *The Annals of Statistics, forthcoming.* [Winner of the **ASA-SBSS 2021** Student Paper Competition]
- 2. Catalano, M., Lijoi, A., Prünster, I. (2020). Approximation of Bayesian models for time-to-event data. *Electronic Journal of Statistics*, 14, 3366-3395.

### ▷ Conference Proceedings

- 1. Catalano, M., Lijoi, A., Prünster, I. (2020). Transport distances on random vectors of measures: recent advances in Bayesian nonparametrics. *Special Volume of the XV CLAPEM*. Birkhäuser, forthcoming.
- 2. Catalano, M., Lijoi, A., Prünster, I. (2019). Bayesian model comparison based on Wasserstein distances. *Book of Short Papers of the Italian Statistical Society*. Pearson.

# Presentations, Conferences and Schools

▷ Seminars	
May 2021	Department of Economics, University of Bergamo (Bergamo, Italy, virtual).
Feb 2021	Department of Statistics and Data Science, Cornell University (Ithaca, NY, virtual).
▶ Invited presentations	
Aug 2021	Joint Statistical Meeting (Seattle, WA).
Jun 2021	EcoSta 2021 4th International Conference on Econometrics and Statistics (virtual).
Jun 2021	2020 ISBA 15th World Meeting of the International Society of Bayesian Analysis (virtual).
Apr 2021	One World YoungStatS webinar (virtual)
Dec 2020	13th International Conference of the ERCIM WG on Computational and Methodological Statistics (virtual).
Nov 2020	BAYSM:O Bayesian Young Statisticians Meeting: Online (virtual).
Dec 2019	XV CLAPEM 2019 Latin American Congress of Probability and Mathematical Statistics (Mérida, Mexico).
Jun 2019	SIS 2019: Smart Statistics for Smart Applications (Milan, Italy).
Jun 2019	Second Italian Meeting on Probability and Mathematical Statistics (Vietri sul Mare, Italy).

#### ▶ Contributed presentations

Aug 2020 Bernoulli-IMS One World Symposium 2020 (virtual).

#### ▷ Contributed posters

Dec 2020	15th Workshop for Women in Machine Learning co-located with the 34th Conference on Neural Information
	Processing Systems (virtual).
Dec 2020	Joint Affinity Groups at the 34th Conference on Neural Information Processing Systems (virtual).
Jun 2019	Objective Bayes Methodology Conference (Warwick, UK).
Jun 2019	12th International Conference on Bayesian Nonparametrics (Oxford, UK).
Jun 2019	12th International Conference on Dayesian Nonparametrics (Oxford, OK).

#### ▷ OTHER CONFERENCES

Jul 2018

Jun 2018

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Jun 2017	10th International Workshop on Bayesian Inference in Stochastic Processes (Milan, Italy).
Schools	
Jul 2018	Bocconi Summer School on Graphical models (Como, Italy).
	Instructors: S. Lauritzen (University of Copenhagen) and R. Evans (University of Oxford).
Jul 2017	Bocconi Summer School on Statistical Causal Learning (Como, Italy).
	Instructors: B. Schölkopf (Max Planck Institute for Intelligent Systems, Tübingen), I. Tolstikhin (Google AI,

2020 ISBA 14th World Meeting of the International Society of Bayesian Analysis (Edinburgh, UK).

# Awards and Funding

Apr 2021	IMS New Researcher Travel Award
Jan 2021	ASA-SBSS 2021 Student Paper Competition.
Dec 2020	Research fellowship (2 months), University of Torino.
Nov 2020	Travel grant, WiML workshop co-located with NeurIPS 2020.
Sep 2020	Special financial support (6 months), Bocconi University.
Jun 2019	Travel grant, O'Bayes 2019 conference.
Jun 2019	Travel grant, BNP12 conference.
Sep 2016	Ph.D. scholarship (4 years), Bocconi University.
Apr 2016	Merit-based Master partial tuition waiver, Pisa University.
2009 - 2012	Excellence path (merit-based additional training activities), Sapienza University.
2009 - 2012	Worthy student (merit-based 3 years full tuition waiver), Sapienza University.

Zürich) and D. Lopez-Paz (Facebook AI Research, Paris).

Bayesian Young Statisticians Meeting (Warwick, UK).

# Teaching

- ▶ Teaching Assistant M.Sc. course ECO0152 Numerical and Statistical Methods for Finance at University of Torino (AY 2020/2021).
- ${\color{red} \triangleright} \ \ \text{Teaching Assistant M.Sc. course 20179} \ \ \textit{Data Analysis} \ \text{at Bocconi University (AY 2020/2021, 2019/2020, 2018/2019, 2017/2018)}.$
- ▶ Teaching Assistant B.Sc. course 30401 Mathematics and Statistics at Bocconi University (AY 2018/2019, 2017/2018).

### Editorial work

Reviewer for the Annals of Statistics, Biometrika, Journal of the American Statistical Association and Statistics & Probability letters.

# Professional activities

Jan 2021 – Present	Board member of the Young Italian Statistical Society (ySIS).
Dec 2020	Volunteer and Poster Mentor for the WiML workshop co–located with NeurIPS 2020.
$Jan\ 2020-Present$	Coordinator of the biweekly internal seminar series at the Bayes Lab.
Sep 2019	Volunteer for the European Researchers' Night.

# Memberships

Member of the American Statistical Association, Bernoulli Society, Complex Data Modeling Research Network (MiDas), Institute of Mathematical Statistics, International Society for Bayesian Analysis, Italian Statistical Society (SIS).