Marta Catalano

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Current Academic Positions

2016 – Present	Ph.D. candidate in Statistics at Bocconi University.
2020 – Present	Research affiliate of the "de Castro" statistics initiative at Collegio Carlo Alberto, Torino.

Education

2016 – Present	**Ph.D. in Statistics** at Bocconi University (Milan, Italy) – Expected January 2021. 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	**Master degree 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	**Bachelor degree in Mathematics at Sapienza University of Rome (Italy)**. Advisor: Domenico Fiorenza. Thesis: *Crystallographic groups.* Grade: 110/110 with honors.

Pubblications

Preprints

1. Catalano, M., De Blasi, P., Lijoi, A., Prünster, I. (2020+). Multisample Posterior Contraction Rates under the Boosted Hierarchical Dirichlet Process. *Working paper.*

2. Catalano, M., Lijoi, A., Prünster, I. (2020+). Measuring dependence in the Wasserstein distance for Bayesian nonparametric models. *Under revision.*

Refereed Journals

1. 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. To appear.

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.

Conferences and Schools

Invited talks

Jun 2021	15th World Meeting of the International Society of Bayesian Analysis (Kunming, China).
Dec 2020	13th International Conference of the ERCIM WG on Computational and Methodological Statistics (virtual).
Nov 2020	Bayesian Young Statisticians Meeting: Online (virtual).
Dec 2019	XV 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 talks

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

Posters

Dec 2020	15th Workshop for Women in Machine Learning co–located with 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).

Other conferences

Jul 2018	Bayesian Young Statisticians Meeting (Warwick, UK).
Jun 2018	14th World Meeting of the International Society of Bayesian Analysis (Edinburgh, UK).
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. Scölkopf (Max Planck Institute for Intelligent Systems, Tübingen), I. Tolstikhin (Google AI, Zürich) and D. Lopez-Paz (Facebook AI Research, Paris).

Awards and Funding

Dec 2020	*Research fellowship* (12 months), University of Torino.
Nov 2020	*Travel funding*, WiML co–located with NeurIPS 2020.
Sep 2020	*Special financial support* (6 months), Bocconi University.
Jun 2019	*Travel support*, O'Bayes 2019 conference.
Jun 2019	*Junior travel support*, BNP12 conference.
Sep 2016	*Ph.D. scholarship* (4 years), Bocconi University.
Apr 2016	Merit-based partial tuition waiver for master's program, 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.

Teaching

- Teaching Assistant for the master course ECO0152 *Numerical and Statistical Methods for Finance* at University of Torino (AY 2020/2021).

- Teaching Assistant for the master course 20179 *Data Analysis* at Bocconi University (AY 2020/2021, 2019/2020, 2018/2019, 2017/2018).

- Teaching Assistant for the undergraduate 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*.

Memberships

Member of the *American Statistical Society*, *Bayes Lab* (Bocconi Institute for Data Science and Analytics), *Bernoulli Society*, *Complex Data Modeling Research Network* (MiDas), *Institute of Mathematical Statistics*, *International Society for Bayesian Analysis*, *Società Italiana di Statistica*.