# Marta Catalano

Department of Decision Sciences, Bocconi University
Via Röntgen 1, 20136 Milano, Italy

marta.catalano@phd.unibocconi.it

## 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: Prof. Antonio Lijoi and Prof. Igor Prünster. |
| | Ph.D. Thesis Title: |
| | *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: Prof. Paolo Ferragina. |
| | Master thesis title: *Information Retrieval on Arpi Dataset.* |
| | Grade: Excellent. |
| 2012 – 2015 | **Master degree in Mathematics** at Sapienza University of Rome (Italy). |
| | Advisors: Prof. Domenico Fiorenza and Prof. Paolo Papi. |
| | Master thesis title: *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: Prof. Domenico Fiorenza. |
| | Bachelor thesis title: *Crystallographic groups.* |
| | Grade: 110/110 with honors. |

## Pubblications

**Preprints**

1. 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 conference). |
| Dec 2019 | XV Latin American Congress of Probability and Mathematical Statistics (Mérida, Mexico). |
| Jun 2019 | SIS 2019: Smart Statistics for Smart Applications (Milano, 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. |

### Posters

| | |
|---|---|
| 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). |
| Jul 2017 | Bocconi Summer Schoolon *Statistical Causal Learning* (Como, Italy) |

## Awards and Scholarships

| | |
|---|---|
| Sep 2020 | *Special financial support*, Bocconi University (6 months) |
| Jun 2019 | *Travel support*, O'Bayes 2019 conference. |
| Jun 2019 | *Junior travel support*, BNP12 conference. |
| Sep 2016 | *Ph.D. scholarship*, Bocconi University (4 years). |
| Apr 2016 | *Master scholarship*, Pisa University. |
| 2009 − 2012 | *Excellence itinerary*, Department of Mathematics at Sapienza University of Rome. |
| 2009 − 2012 | *Honor student*, Sapienza University of Rome. |

## Teaching

- Teaching Assistant for the master course ECO0152 *Numerical and Statistical Methods for Finance* at Università di 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*.