

Marta Catalano

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Academic Positions

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| Sep 2021 – Present | Harrison Early Career Assistant Professor, Statistics Department, Warwick University. |
| Feb 2021 – Sep 2021 | Postdoctoral Researcher, University of Torino. Supervisor: Pierpaolo De Blasi. |
| Sep 2020 – Present | Research Affiliate, “de Castro” Statistics Initiative, Collegio Carlo Alberto, Torino. |
| Jun 2020 – Present | Research Affiliate, BayesLab, Bocconi Institute for Data Science and Analytics (BIDSA). |

Education

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| 2016 – 2021 | Ph.D. in Statistics , Bocconi University (Milan, Italy). Advisors: Antonio Lijoi and Igor Prünster. Thesis: <i>On Complex Dependence Structures in Bayesian Nonparametrics: a Distance-based Approach</i> . |
| 2016 – 2017 | Master in Big Data Analytics & Social Mining , University of Pisa and CNR (Italy). Grade: Excellent. Advisor: Paolo Ferragina. Thesis: <i>Information Retrieval on Arpi Dataset</i> . |
| 2012 – 2015 | M.Sc. in Mathematics , Sapienza University of Rome (Italy). Grade: 110/110 with honors. Advisors: Domenico Fiorenza and Paolo Papi. Thesis: <i>Planar 2-algebras and Khovanov Homology</i> . |
| 2012 – 2013 | Erasmus Program , École Normale Supérieure de Lyon (France). |
| 2009 – 2012 | B.Sc. in Mathematics , Sapienza University of Rome (Italy). Grade: 110/110 with honors. |

Publications

▷ PREPRINTS

1. Catalano, M., Lavenant, H., Lijoi, A., Prünster, I. (2022+). A Wasserstein Index of Dependence for Random Measures. *Submitted*.

▷ PEER-REVIEWED JOURNALS

1. Catalano, M., De Blasi, P., Lijoi, A., Prünster, I. (2022). Posterior Asymptotics for Boosted Hierarchical Dirichlet Process Mixtures. *Journal of Machine Learning Research*, 23 (80), 1-23.
2. Catalano, M., Lijoi, A., Prünster, I. (2021). Measuring Dependence in the Wasserstein Distance for Bayesian Nonparametric Models. *The Annals of Statistics*, 49 (5), 2916-2947. [Winner of the ASA-SBSS 2021 Student Paper Competition]
3. 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 AND BOOK CHAPTERS

1. Catalano, M., Lijoi, A., Prünster, I. (2021). Transport Distances on Random Vectors of Measures: Recent Advances in Bayesian Nonparametrics. In *Advances in Probability and Mathematical Statistics*, Springer, 59-70.
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, 167-172.

Awards and Funding

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| Mar 2022 | Finalist, 2021 L.J. Savage Award ‘Theory and Methods’ sponsored by ASA, ISBA and NBER-NSF. |
| Mar 2022 | Travel grant, BNP 2022 Networking Event. |
| Mar 2022 | Travel grant, ISBA 2022 World Meeting. |
| Oct 2021 | j-ISBA Blackwell-Rosenbluth Award. |
| 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 partial tuition waiver, Pisa University. |
| 2009 – 2012 | Excellence path (merit-based additional training activities), Sapienza University. |
| 2009 – 2012 | Student award (merit-based 3 years full tuition waiver), Sapienza University. |

Seminars, Presentations and Schools

▷ SEMINARS

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| May 2022 | StatML CDT, Imperial College London & University of Oxford (London, UK). |
| May 2022 | S3AI, JK Universität Linz (May 2022) (virtual). |
| May 2022 | School of Mathematics, University of Edinburgh (Edinburgh, UK). |
| Mar 2022 | Department of Economics and Finance, Luiss (Rome, Italy). |
| Mar 2022 | School of Mathematics, Cardiff University (Cardiff, UK). |
| Feb 2022 | Department of Mathematics, University of Warwick (Coventry, UK). |
| Nov 2021 | Department of Statistics, University of Warwick (Coventry, UK). |
| Nov 2021 | Department of Statistical Science, University College London (London, UK). |
| 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

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| Jun 2022 | 2022 ISBA 16th World Meeting of the International Society of Bayesian Analysis (Montreal, Canada). |
| Apr 2022 | BNP Networking Workshop (Nicosia, Cyprus). |
| Nov 2021 | BIRS-CMO Workshop on Foundations of Objective Bayesian Methodology (Oaxaca, Mexico). |
| Nov 2021 | Junior Bayes Beyond the Borders (virtual). |
| Oct 2021 | OxWaSP Annual Workshop (virtual). |
| Aug 2021 | Joint Statistical Meetings (virtual). |
| Jun 2021 | 2021 ISBA 15th World Meeting of the International Society of Bayesian Analysis (virtual). |
| Jun 2021 | EcoSta 2021 4th International Conference on Econometrics and Statistics (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

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

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| Dec 2020 | 15th Women in Machine Learning Workshop co-located with NeurIPS 2020 (virtual). |
| Dec 2020 | Joint Affinity Groups, NeurIPS 2020 (virtual). |
| Jun 2019 | Objective Bayes Methodology Conference (Warwick, UK). |
| Jun 2019 | 12th International Conference on Bayesian Nonparametrics (Oxford, UK). |

▷ SCHOOLS

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| Jul 2018 | Bocconi Summer School on <i>Graphical Models</i> (Como, Italy). Instructors: S. Lauritzen (University of Copenhagen) and R. Evans (University of Oxford). |
| Jul 2017 | Bocconi Summer School on <i>Statistical Causal Learning</i> (Como, Italy). Instructors: B. Schölkopf (Max Planck Institute for Intelligent Systems, Tübingen), I. Tolstikhin (Google AI, Zürich) and D. Lopez-Paz (Facebook AI Research, Paris). |

Teaching

- ▷ Module Leader, B.Sc. course *Bayesian Forecasting and Intervention*, University of Warwick (AY 2021/2022).
- ▷ Teaching Assistant, M.Sc. course *Numerical and Statistical Methods for Finance*, University of Torino (AY 2020/2021).
- ▷ Teaching Assistant, M.Sc. course *Data Analysis*, Bocconi University (AY 2020/2021, 2019/2020, 2018/2019, 2017/2018).
- ▷ Teaching Assistant, B.Sc. course *Mathematics and Statistics*, Bocconi University (AY 2018/2019, 2017/2018).

Editorial work

- ▷ Reviewer for *Annals of Statistics*, *Biometrika*, *Electronic Journal of Statistics*, *Journal of Business & Economic Statistics*, *Journal of the American Statistical Association*, *Statistics & Probability letters*.
- ▷ Program Committee Member of the 2021 NeurIPS Workshop *Your Model is Wrong: Robustness and Misspecification in Probabilistic Modeling*.

Professional activities

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| Jan 2022 – Present | Treasurer, BNP section of ISBA. |
| Jun 2021 – Dec 2021 | Chair, ISBA <i>ad-hoc</i> Committee for Junior Awards. |
| Jun 2021 | Organizing Committee Member, Junior Live Presentations ISBA@CIRM Mirror Workshop |
| Jan 2021 – Present | Board Member, Young Italian Statistical Society (ySIS). |
| Dec 2020 | Volunteer and Poster Mentor, WiML workshop co-located with NeurIPS 2020. |
| Jan 2020 – Sep 2021 | Coordinator, biweekly internal seminar series, BayesLab. |
| Sep 2019 | Volunteer, 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).