

Lorenzo Masoero

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Born July 20, 1992—Turin, Italy
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Education

- 2019-current PhD student in Electrical Engineering and Computer Science, Massachusetts Institute of Technology (GPA 5.0/5.0)
- 2017 - 2019 MSc in Electrical Engineering and Computer Science, Massachusetts Institute of Technology ¹
- 2015 - 2016 MA in Statistics and Applied Mathematics, with distinction, Collegio Carlo Alberto (Senior Allievi Honors Program)
- 2015 - 2016 MA in Quantitative Finance and Insurance, 110/110 magna cum laude, Università degli Studi di Torino
- 2012 - 2014 BA in Economics, 110/110 cum laude, Università degli Studi di Torino

Scholarships and Awards

- 2018 BNP@NeurIPS Award
- 2017 Andrew (1956) and Erma Viterbi Fellowship
- 2016 Best Graduate Student of the Year (ATLEC)
- 2015 - 2016 Graduate Allievi Honors Program Scholarship, Collegio Carlo Alberto, Moncalieri
- 2012 - 2014 Undergraduate Allievi Honors Program Scholarship, Collegio Carlo Alberto, Moncalieri

Research and Theses

- 2019 “**Genomic variety prediction via Bayesian nonparametrics**” AABI 2019; Journal version in preparation; (M., Camerlenghi, Favaro and Broderick)”
- 2018 “**Posterior representations of hierarchical completely random measures in trait allocation models**” (M., Camerlenghi, Favaro and Broderick), **Spotlight**, *BNP@NeurIPS2018* [[poster](#)]
“**Sensitivity of Bayesian inference to data perturbations**” (M., Stephenson and Broderick), *AABI 2018* [[poster](#)]
- 2017 “**Generic finite approximations for practical Bayesian nonparametrics**” (Huggins, M., Mackey and Broderick), **Spotlight**, *NIPS 2017 Workshop on Advances in Approximate Bayesian Inference* [[poster](#)]
- 2016 “**An asymptotic analysis of Gibbs-type priors**” - Master’s thesis in Bayesian nonparametrics, Supervisors: prof. Pierpaolo de Blasi and prof. Igor Prünster
- 2014 “**Econometrics of the Big Data**” - Undergraduate thesis in Econometrics. Supervisor: prof. Alessandro Sembenelli

¹**Completed coursework:** Dynamic Programming and Stochastic Control (6.231) [final project], Fundamentals of Probability (6.436), Inference and Information (6.437), Algorithms for Inference (6.438), Algorithmic aspects of Machine Learning (18.408) [final project], Bayesian modeling and inference (6.882), Advanced stochastic processes (6.265), Mathematical Statistics: A Non-Asymptotic Approach (9.S914), Learning-Augmented Algorithms (6.890)

Skills

- Proficient in Python (numpy, scipy, pandas, matplotlib, scikit-learn), \LaTeX
- Past experience in C++, Matlab, R, RStudio

Talks and Conference Presentations

2019

- Advances in Bayesian Nonparametric Methods and Its Applications, *Denver (CO)*, *JSM 2019*, “Genomic variety prediction via Bayesian nonparametrics” [Topic-contributed session]
- Statistics and Data Science Conference 2019, *Cambridge (MA)*. “Genomic variety prediction via Bayesian nonparametrics”
- MLxMIT, *Cambridge (MA)*, “Genomic variety prediction via Bayesian nonparametrics”
- LIDS & Stats seminar, *Cambridge (MA)*, “Genomic variety prediction via Bayesian nonparametrics”
- CSAIL-MSR Trustworthy and Robust AI (TRAC) Workshop, *Cambridge (MA)*, “Getting the most bang for your buck: Predicting and maximizing the number of new genetic variants in a future experiment”

2018

BNP@NeurIPS 2018, Montreal (Canada) “Posterior representations of hierarchical completely random measures in trait allocation models” [**Spotlight**]

Professional Service

2020

Reviewer for AAAI 2020, AISTATS 2020

2019

Reviewer for AISTATS 2019, NeurIPS 2019, AABI 2019

2018

Reviewer for BNP@NeurIPS2018