

# Lorenzo Masoero

Stata Center, Room G414  
32 Vassar Street, Cambridge  
MA 02139, USA

Born July 20, 1992—Turin, Italy  
EMAIL: lom [at] mit [dot] edu  
WEB: <http://lorenzomasoero.com>

## 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 <sup>1</sup>
- 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

- 2020 SBSS Best Student Paper Award (ASA)
- 2020 Bayes Comp Travel Award
- 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 “**More for Less: Predicting and maximizing genetic variant discovery via Bayesian non-parametrics**” AABI 2019 [[poster](#)]; Journal version in preparation; <https://arxiv.org/pdf/1912.05516.pdf>; (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

---

<sup>1</sup>**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),  $\text{\LaTeX}$
- Past experience in C++, Matlab, R, RStudio

## Talks, Poster sessions and Conference Presentations

2020

- Learning under complex structure, MIFODS workshop, *Cambridge (MA)*, “More for less: predicting and maximizing genomic diversity via Bayesian nonparametrics” [Poster session]
- Bayes Comp 2020, *Gainesville (FL)*, “More for less: predicting and maximizing genomic diversity via Bayesian nonparametrics” [Poster session]

2019

- Advances in Bayesian Nonparametric Methods and Its Applications, *Denver (CO)*, *JSM 2019*, “Genomic variety prediction via Bayesian nonparametrics” [Topic-contributed session]
- Advances in Approximate Bayesian Inference, *Vancouver, Canada*, “More for less: Predicting and maximizing genetic variant discovery via bayesian nonparametrics”
- 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