

Cecilia Balocchi

CONTACT INFORMATION

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CURRENT POSITION

University of Torino, Torino, Italy.
Postdoctoral researcher in Statistics, May 2020 - present
Advised by Stefano Favaro.
Support: ERC grant NBEB-SSP.

EDUCATION

University of Pennsylvania, Philadelphia, PA.
Ph.D. in Statistics.
Graduated in May 2020.
Co-advised by Ed George and Shane Jensen.
Thesis: Bayesian Nonparametric Analysis of Spatial Variation with Discontinuities

University of Torino, Torino, Italy.
M.Sc. in Mathematics with emphasis in Probability.
Graduated in July 2015, with 110/110 *cum laude*.
Co-advised by Ciro Cattuto, Antonio Lijoi, Igor Prünster and Laura Sacerdote.

Collegio Carlo Alberto, Moncalieri, Italy.
Master in Statistics and Applied Mathematics, *Allievi Honors Program*.
Graduated in July 2015 with distinction.
Co-advised by Antonio Lijoi and Igor Prünster.

University of Parma, Parma, Italy.
B.S. in Mathematics.
Graduated in September 2013, with 110/110 *cum laude*.
Co-advised by Maria Groppi and Marzia Bisi.

Liceo Scientifico Statale Giacomo Ulivi, Parma, Italy.
High School Diploma with emphasis in Science.
Graduated in July 2010 , with 100/100 *cum laude*.

AWARDS AND GRANTS

Donald S. Murray Prize for Excellence in Teaching.
University of Pennsylvania, 2020

Best Talk Prize.
Bayesian Young Statistician Meeting 2018

Conference Travel Awards

BNP 11, ISBA 2018, BNP 12

Wharton Doctoral Program Fellowship.

First Year Award, 2015.

Collegio Carlo Alberto.

Allievi Honors Program Scholarship, 2013 - 2015.

INdAM - National Institute of High Mathematics "F. Severi".

3-year merit-based scholarship, awarded to the forty best italian students in Mathematics, 2010 - 2013.

Ministry of Education, Universities and Research.

Included in "Excellence Board", 2010.

National Mathematics Olympiads, team competition.

Member of the school team, 2007-2010

POSTERS AND TALKS

JSM 2020, online, invited talk.

Spatial Modeling and Clustering of Crime Trends in Urban Environments.

JSM 2019, Denver, contributed talk.

Clustering Data at Multiple Resolutions.

O'Bayes 2019, University of Warwick, poster.

Clustering Data at Multiple Resolutions.

BNP 12, Oxford, contributed talk.

Clustering Data at Multiple Resolutions.

BAYSM 2018, University of Warwick, contributed talk.

Bayesian Spatial Clustering of crime with Particle Optimization.

ISBA 2018, Edinburgh, contributed talk.

Prior Choice and Ensemble Particle Optimization for Clustering Areal Data.

BayesComp 2018, Barcelona, poster.

Bayesian Spatial Clustering with Particle Optimization.

BNP 11, Paris, poster.

Non-parametric Spatial Modeling of Changes in Crime over Time.

PAPERS

Sameer K. Deshpande, Ray Bai, Cecilia Balocchi, Jennifer E. Starling, and Jordan Weiss (2020+). VC-BART: Bayesian trees for varying coefficients. *submitted*.

Cecilia Balocchi, Sameer K. Deshpande, Ed I. George, and Shane T. Jensen, (2019+). Crime in Philadelphia: Bayesian Clustering with Particle Optimization. *submitted*.

Cecilia Balocchi, Shane T. Jensen (2019) Spatial Modeling of Trends in Crime over Time in Philadelphia. *Annals of Applied Statistics*.