

Laura Bondi | Curriculum Vitae

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Academic positions

MRC Biostatistics Unit, Cambridge University

Cambridge, UK

Research Associate

Sep. 2021 – Present

I work within the Precision Medicine and Inference for Complex Outcomes (PREM) group with Dr. Brian Tom and Prof. Sylvia Richardson. I am part of the “STEpUP OA” collaboration, led by the Kennedy Institute at Oxford University, that aims at identifying molecular pathways of osteoarthritis (OA).



Education

Bocconi University

Milan, Italy

Ph.D. in Statistics

Sep. 2017 – Feb. 2022

Final mark: cum laude. Advisor: Prof. Marco Bonetti. Thesis's title: “Statistical models for the natural history of breast cancer”.

Università degli Studi di Padova

Padua, Italy

M.Sc. in Statistical Sciences

Jan. 2015 – Mar. 2017

Main fields of interest: Biostatistics, Data Mining, Causal Inference, Mathematical Statistics. Thesis's supervisors: Prof. Irene Gijbels (KU Leuven) and Prof. Alessandra Brazzale. Thesis's title: “Kernel estimation of quantile regression curves using copula modelling”. Final mark: 110/110 cum laude.

Università degli Studi di Padova

Padua, Italy

B.Sc. in Mathematics

Oct. 2011 – Dec. 2014

Main fields of interest: Probability and Applied Mathematics. Final mark: 108/110.

Liceo Scientifico Francesco Redi

Arezzo, Italy

Scientific High School Diploma

Sep. 2006 – Jun. 2011

Final mark: 100/100.



Academic Experience

Working papers.....

BONDI L, BONETTI M, PICCARRETA R (2022+). An exploration of Approximate Bayesian Computation (ABC) and dissimilarities. In preparation.

BONDI L, BONETTI M, PAGANO M (2022+). A note on the optimal estimation of the sparsity index in Poisson size-biased sampling. Submitted.

BONDI L, BONETTI M, GRIGOROVA D, RUSSO A (2022+). Approximate Bayesian Computation (ABC) for the natural history of breast cancer with application to data from a cohort of disease-free women in Milan. Submitted.

Teaching activities.....

Bocconi University

Milan, Italy

Teaching Assistant

A.y. 2018/2019-2020/2021

I helped in the teaching activity of the courses "Advanced Mathematics and Statistics" and "Statistics" for the bachelor degrees in *Economics, Management and Computer Science, Economics and Management for Arts, Culture and Communication* and *Economics and Management* proposing and solving exercises, supervising and scoring exams.

Affiliations

Affiliations: International Biometric Society (IBS) - Italian Region, International Society for Clinical Biostatistics (ISCB), Italian Statistical Society (SIS).

Talks, conferences and workshops

CMStatistics 2021

Contributed Talk

14th International Conference of the ERCIM WG on Computational and Methodological Statistics

London, UK

December 2021

ISCB 2021

Contributed Talk

42nd Conference of the International Society for Clinical Biostatistics

Virtual

July 2021

IBS-EMR 2021

Invited Talk

Conference of the Eastern Mediterranean Region, International Biometric Society.

Virtual

April 2021

IBC 2020

Poster Session

30th Conference of the International Biometric Society.

Virtual

August 2020

Data Research Camp

Workshop

It was a 3-day meeting where small research groups of young scholars, advised by senior researchers, were asked to develop innovative methods and models to analyze a common dataset. I worked in a group supervised by Professor David Rossell (Pompeu Fabra University).

Venice, Italy

July 2019

Programming Skills

Advanced: R, LaTeX

Basic: Stata, SAS, MATLAB, C, Python

Outreach and Scholarships

Modern Methods in Biostatistics and Epidemiology

Summer School

I attended the course "Statistical methods for population-based cancer survival analysis" by Professors Paul Dickman (Karolinska Institutet) and Paul Lambert (Leicester University and Karolinska Institutet).

Cison di Valmarino (TV), Italy

June 2019

PhD student representative

Bocconi University

I have been elected PhD student representative in the Department of Decision Sciences.

Milan, Italy

Nov. 2018 - Nov. 2021

Bocconi University PhD BEAT program

Bocconi Excellence in Advanced Teaching program

I attended the PhD BEAT program whose aim is to support PhD students to explore new pedagogical methodologies and teaching practices, and to help them in personal development to provide enhanced learning experiences in the classrooms.

Milan, Italy

Oct.-Dec. 2018

Bocconi Summer School in Advanced Statistics and Probability

Summer School

I attended the Bocconi Summer School in Advanced Statistics and Probability: Graphical Models.

Como, Italy

July 2018

Bocconi University Phd Scholarship
Scholarship

Milan, Italy
Sep. 2017 - Aug. 2021

Visiting period at KU Leuven
Visiting Student

Leuven, Belgium
May-July 2017

I have been invited by Professor Irene Gijbels to spend a period in Leuven as a visiting research student.

Erasmus+ Scholarship
Scholarship

Leuven, Belgium
Sep. 2016 - Feb. 2017

I have been awarded with a merit-based scholarship by the Erasmus+ program to spend a semester at Katholieke Universiteit Leuven (KU Leuven) to write my master's thesis.

Università degli studi di Padova Scholarship for Academic Achievement
Scholarship

Padua, Italy
Oct. 2012

I have been awarded with a merit-based scholarship designed to encourage students of scientific subjects.

Italian Mathematical Olympiad
Award

Cesenatico, Italy
May 2011

I have been awarded with a bronze medal at the Italian Mathematical Olympiads, having ranked in the top 150 among over 300,000 Italian high school students in solving math problems. It was a three-step competition, with the national final taking place in Cesenatico, Italy.

Language Skills

Italian: Mother tongue

English: Fluent, C1 level (IELTS 7.5).