

Laura Bondi | Curriculum Vitae

✉ Email: laura.bondi@mrc-bsu.cam.ac.uk

🌐 Website: <https://laurabondi.github.io/>



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 also 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 (Expected)

My research interests lie in Medical Statistics and Survival Analysis, with a particular focus on Public Health Data Analysis and Cancer Research. My advisor is 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, Medical Statistics and Epidemiology, Data Mining, Causal Inference, Mathematical Statistics. Erasmus exchange at Katholieke Universiteit (KU) in Leuven, Belgium. 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. Thesis's supervisor: Prof. Alessandra Bianchi. Thesis's title: “Random polymer models: localization phenomena” (in Italian). 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

London, UK

Contributed Talk

December 2021

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

ISCB 2021

Virtual

Contributed Talk

July 2021

42nd Conference of the International Society for Clinical Biostatistics

IBS-EMR 2021

Virtual

Invited Talk

April 2021

Conference of the Eastern Mediterranean Region, International Biometric Society.

IBC 2020

Virtual

Poster Session

August 2020

30th Conference of the International Biometric Society.

Data Research Camp

Venice, Italy

Workshop

July 2019

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).

Programming Skills

Advanced: R, L^AT_EX

Basic: Stata, SAS, MATLAB, C, Python

Outreach and Scholarships

Modern Methods in Biostatistics and Epidemiology

Cison di Valmarino (TV), Italy

Summer School

June 2019

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).

PhD student representative

Milan, Italy

Bocconi University

Nov. 2018 - Present

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

Bocconi University PhD BEAT program

Milan, Italy

Bocconi Excellence in Advanced Teaching program

Oct.-Dec. 2018

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.

Bocconi Summer School in Advanced Statistics and Probability <i>Summer School</i>	Como, Italy <i>July 2018</i>
I attended the Bocconi Summer School in Advanced Statistics and Probability: Graphical Models.	
Bocconi University Phd Scholarship <i>Scholarship</i>	Milan, Italy <i>Sep. 2017 - Present</i>
Visiting period at KU Leuven <i>Visiting Student</i>	Leuven, Belgium <i>May-July 2017</i>
I have been invited by Professor Irene Gijbels to spend a period in Leuven as a visiting research student.	
Erasmus+ Scholarship <i>Scholarship</i>	Leuven, Belgium <i>Sep. 2016 - Feb. 2017</i>
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 <i>Scholarship</i>	Padua, Italy <i>Oct. 2012</i>
I have been awarded with a merit-based scholarship designed to encourage students of scientific subjects.	
Italian Mathematical Olympiad <i>Award</i>	Cesenatico, Italy <i>May 2011</i>
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).