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). From a methodological side, I am currently working on issues related to variable selection and outcome prioritisation in outcome-guided Bayesian clustering.



Education

Bocconi University

Milan, Italy

Ph.D. in Statistics

Sep. 2017 – Feb. 2022

Final mark: summa 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 summa 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.



Academic Experience

Refereed conference proceedings.....

BONDI L, BONETTI M, PICCARRETA R (2022). An exploration of Approximate Bayesian Computation (ABC) and dissimilarities. Book of Short Papers of the Italian Statistical Society.

Working papers.....

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. Under revision.

Bondi L, Bonetti M, Pagano M (2022+). A note on the optimal estimation of the sparsity index in Poisson size-biased sampling. Under review.

Bondi L, Tom B, Richardson S (2022+). A generalized Bayes framework for outcome-guided clustering. Work in progress.

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.....

ISBA 2022 Montreal, Canada

Contributed Talk

June 2022

International Society for Bayesian Analysis (ISBA) World Meeting.

SIS 2022 Caserta, Italy

Contributed Talk

June 2022

51st Scientific Meeting of of the Italian Statistical Society.

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).



Awards

ISBA Travel Award June 2022

Junior Travel Support to attend the ISBA World Meeting in Montreal.



Programming Skills

Advanced: R, LATEX

Basic: Stata, SAS, MATLAB, C, Python

n Outreach and Scolarships

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 - Nov. 2021

I have been elected PhD student representative in the Department of Decision Sciences for three academic years.

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

Como, Italy

Summer School

July 2018

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

Bocconi University Phd Scholarship

Milan, Italy

Scholarship

Sep. 2017 - Aug. 2021

Visiting period at KU Leuven

Leuven, Belgium

Visiting Student

May-July 2017

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

Erasmus+ Scholarship

Leuven, Belgium

Scholarship

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

Padua, Italy

Scholarship

Oct. 2012

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

Italian Mathematical Olympiad

Cesenatico, Italy

Aznard

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: Mothertongue

English: Fluent, C1 level (IELTS 7.5).