Marta Bonsaglio | CV

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Education

Università Bocconi   **Milan, Italy**

Ph.D. in Statistics   *Sep. 2017 – January 2022 (expected)*

During the first and second year of the program I have strengthened my knowledge of statistical theory, stochastic processes and data analysis. In the third and fourth year I have collaborated with high-qualified researchers from Bocconi and Harvard university, facing challenging problems in theoretical statistics and applied mathematics. In particular, in the research projects I joined theory of decision making and probability theory, as well as Bayesian and frequentist statistical models and programming in R. I also partecipated to international conferences both as an auditor and as a speaker.

I am also member of the following statistics initiatives: *BayesLab* research unit at Bocconi University and *Complex Data Modeling Research Network* by MiDas.

Thesis advisors: Prof. Sandra Fortini (Bocconi) and Prof. Lorenzo Trippa (Harvard University).

Università degli Studi di Milano-Bicocca   **Milan, Italy**

M.Sc. in Applied Mathematics   *Sep. 2013 – Feb. 2016*

I specialized in applied mathematics and numerical analysis, with the aim of learning high-level competences for the formalization and the consequent mathematical analysis of problems arising from applied sciences, finance and technologies.

In my Master thesis I joined theoretical competences with programming skills in Matlab to solve differential equations modelling diffusion problems in two-dimensional domains.

Thesis supervisor: Prof. Alessandro Russo.
Final mark: 110/110 cum laude.

Università degli Studi di Milano-Bicocca   **Milan, Italy**

B.Sc. in Mathematics   *Sep. 2010 – Oct. 2013*

The bachelor provided me knowledge in the fundamental fields of mathematics (algebra, analysis, geometry, probability) as well as physics and computer science.

Thesis supervisor: Prof. Alessandro Russo.
Final mark: 110/110 cum laude.

Liceo Scientifico Marie Curie   **Meda (MB), Italy**

Scientific High School Diploma   *Sep. 2005 – Jun. 2010*

Final mark: 100/100.

Outreach and Scolarships

Bocconi Summer School in Advanced Statistics and Probability   **Como, Italy**

Summer School   *July 2018*

Bocconi University Phd Scholarship   **Milan, Italy**

Scholarship   *Sep. 2017 - Present*

Università degli studi di Milano-Bicocca Scholarship for Academic Achievement **Milan, Italy**
Scholarship *2010-2011*
I have been awarded with a merit-based scholarship designed to encourage students of scientific subjects.

Academic Experience

Articles

Bonsaglio M, Fortini S, Ventz S, Trippa L (2021+). Approximating the operating characteristics of Bayesian Uncertainty Directed Trial Designs, arXiv:2105.11177

Bonsaglio M, Fortini S, Ventz S, Trippa L (2021+). Incorporating external data in the design of novel trials (working paper)

Referee activities

Referee for the journals *Sankhya* and *Clinical trials*.

Work experience

Bocconi University **Milan, Italy**
Researcher in Statistics *Sep. 2017 – Present*

MIUR - Liceo scientifico Marie Curie **Meda, Italy**
Professor of Mathematics and Physics *Sep. 2016 – Jul. 2017*

Altran **Milan, Italy**
Internship *May. 2016 – Aug. 2016*
During this internship, I have been engaged in two distinct projects concerning the development of novel technological devices for two big companies headquartered in Milan. My main duties were to define and report KPIs relative to collected relevant data about data traffic, analyze and monitor them over real-time dashboards.

Volunteer work

2019: Volunteer for the European Researchers' Night, Milan

2015: Volunteer for Expo 2015, Milan

Programming Skills

Very good: LaTeX, R

Good: Matlab

Basic: Java

Language Skills

Italian: Mothertongue

English: Fluent

Interests

Cooking, Collecting, Traveling, Zumba