

SIRIO LEGRAMANTI

University of Bergamo

Department of Economics

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CURRENT ACADEMIC POSITION

Jan. 2022 – present **Assistant Professor (RTDa) in Statistics**
University of Bergamo (Italy)

PAST ACADEMIC POSITIONS

Sep. 2020 – Dec. 2021 **Postdoctoral Researcher in Statistics**
Bocconi University (Milan, Italy)

RESEARCH INTERESTS

Bayesian inference, Dimensionality reduction, Networks, Approximate Bayesian Computation, Privacy

AFFILIATIONS

- [BayesLab](#), Bocconi Institute for Data Science and Analytics (BIDSA)
- [MIDAS](#) Complex Data Modeling Research Network

FUNDING AND GRANTS

Member of the MIUR-PRIN 2017 grant "[Unfolding the secrets of longevity: current trends and future prospects](#)" (20177BRJXS)

EDUCATION

- Sep. 2016 – Feb. 2021 **PhD in Statistics** (cum laude)
Bocconi University (Milan, Italy). Advisor: Daniele Durante
- Oct. 2013 – Apr. 2016 **ECMI Postgraduate Programme "Mathematics for Industry"**
University of Milan (Italy)
- Oct. 2013 – Apr. 2016 **M. Sc. in Mathematics** (110/110 cum laude)
University of Milan (Italy), with 5 months at University of Twente (NL)

- Oct. 2009 – Oct. 2013 **B. Sc. in Mathematics** (110/110 cum laude)
University of Milan (Italy)
- Oct. 2006 – Nov. 2007 **Master in Screenwriting and Production**
Università Cattolica del Sacro Cuore (Milan, Italy)
- Oct. 2003 – July 2006 **B. A. in Arts and Entertainment** (110/110 cum laude)
Università Cattolica del Sacro Cuore (Brescia, Italy)

INDUSTRY EXPERIENCE

- Dec. 2007 – Aug. 2011 **Rete 4 Programming Manager**, Mediaset (RTI S.p.A.)
- Oct. 2007 – Nov. 2007 **Purchasing Coordination Intern**, Mediaset (RTI S.p.A.)

TEACHING EXPERIENCE

Lecturer

- [Probability and Statistics for Business and Finance](#) (in English), a.y. 2022-23
- [Coding for Data Science](#) (in English), a.y. 2022-23
- [Statistics](#), University of Bergamo (in Italian), a.y. 2021-2022

Teaching Assistant

- Statistics, Module 1 (in English), Bocconi University, a.y. 2017-2018
- Advanced Mathematics and Statistics, Module 2 (in English), Bocconi University, a.y. 2017-2018

Thesis Supervisor

- Michele Siciliano (M. Sc.), Bocconi University, April 2021 – jointly with Prof. A. Melegaro

PUBLICATIONS

Refereed journals

1. S. Legramanti, T. Rigon, D. Durante, D. B. Dunson (2022), **Extended Stochastic Block Models with Application to Criminal Networks**. *Annals of Applied Statistics*, 16(4), 2369-2395.
2. S. Legramanti, T. Rigon, D. Durante (2020), **Bayesian Testing for Exogenous Partition Structures in Stochastic Block Models**. *Sankhya A*, 84, 108–126.
3. S. Legramanti, D. Durante, D. B. Dunson (2020), **Bayesian Cumulative Shrinkage for Infinite Factorizations**. *Biometrika*, 107(3), 745-752 [Winner of the 2021 [ASA-SBSS Student Paper Competition](#)]

Conference proceedings

4. S. Legramanti (2020), **Variational Bayes for Gaussian Factor Models under the Cumulative Shrinkage Process**. *Book of Short Papers SIS 2020*, 416-420.
5. S. Legramanti (2019), **Bayesian Analysis of Privacy Attacks on GPS Trajectories**. *Book of Short Papers SIS 2019*, 379-386.

REFEREE FOR

Journals

- Bayesian Analysis
- Computational Statistics and Data Analysis
- Journal of Computational and Graphical Statistics
- Journal of the Royal Statistical Society – Series A (Statistics in Society)
- Journal of the Royal Statistical Society – Series C (Applied Statistics)
- Stat

Conference proceedings

- [RSSDS 2019](#)

SERVICE TO PROFESSION

- Divulgarion articles [[1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#)]
- Judge for the 2022 [ASA-SBSS Student Paper Competition](#)

SERVICE TO UNIVERSITY

- “Open Campus” Committee, University of Bergamo
- PR & Digital Communication Committee of the Department of Economics, University of Bergamo

PRESENTATIONS

Invited seminars

- 2 Mar. 2022, [BNP-ISBA webinars](#) (online, jointly with Daniele Durante)
28 Apr. 2021, [University of Bergamo](#) (online)

Invited talks

- 17-19 Dec. 2022, London (UK): [CMStatistics 2022 \(ERCIM\)](#)
13-16 Dec. 2022, Florence (Italy): [1st IMS International Conference on Statistics and Data Science](#)
30 Aug. - 2 Sept. 2022, Misurina (Italy): [“Climbing Mortality Models” workshop](#)
23-26 Aug. 2022, Bologna (Italy): [COMPSTAT 2022](#)
26 June - 1 July 2022, Montreal (Canada): [2022 ISBA World Meeting](#)
22-24 June 2022, Caserta (Italy): [SIS 2022](#)
7-12 Aug. 2021 (online): [JSM 2021](#)
28 May 2020 (online): [SELECT first intermediate meeting](#)
24 Jan. 2020, Padua (Italy): [BNP for complex data](#)
7-10 Jan. 2020, Gainesville, FL (US): [Bayes Comp 2020](#)
14-15 Oct. 2019, Venice (Italy): [SELECT kick-off meeting](#)
18-21 June 2019, Milan (Italy): [SIS 2019](#)

Contributed talks

- 22-24 Sept. 2021 (online): [New data for new challenges of population and society](#)
28 June - 2 July 2021 (online): [2021 ISBA World Meeting](#)
24-28 Aug. 2020 (online): [Bernoulli-IMS One World Symposium](#)

Poster presentations

24-28 June 2019, Oxford (UK): [BNP 12](#)

12-14 June 2019, Madrid (Spain): [BISP 11](#)

2-6 July 2018, Vilnius (Lithuania): [IMS Annual Meeting](#)

24-29 June 2018, Edinburgh (UK): [2018 ISBA World Meeting](#)

SUMMER SCHOOLS

9-20 July 2018, Como (Italy): Bocconi Summer School in Advanced Statistics and Probability

Topic: **Graphical Models**. Main instructor: S. Lauritzen, University of Copenhagen

10-22 July 2017, Como (Italy): Bocconi Summer School in Advanced Statistics and Probability Topic:

Statistical and Causal Learning. Main instructor: B. Schölkopf, Max Planck Institute for Intelligent Systems and ETH Zürich

24-31 Aug. 2014, Paderborn (Germany): **ECMI 28th Modelling Week**

AWARDS

Academic awards

2021 [ASA-SBSS Student Paper Competition](#), awarded by the Section on Bayesian Statistical Science of the American Statistical Association to the best student papers on Bayesian methodology

Competitions

Six Time National Finalist at Mathematical Games International Championship

Scholarships

Sept. 2016 - Aug. 2020, Ph.D. scholarship, Bocconi University (Milan, Italy)

Travel awards

25 June - 1 July 2022, Montreal (Canada): [2022 ISBA World Meeting](#)

7-10 Jan. 2020, Gainesville, FL (US): [Bayes Comp 2020](#)

24-28 June 2019, Oxford (UK): [BNP 12](#)

24-29 June 2018, Edinburgh (UK): [ISBA World Meeting](#)

OTHER SKILLS

Programming

R, Python, Matlab, Java, C

Languages

English (C1), Italian (mother tongue)