Valentina Ghidini

PHD STUDENT · STATISTICS

Bocconi University, Milan

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Research Interests _

Complex networks, Bayesian nonparametrics, statistical learning, eXplainable AI, interpretable machine learning, clustering, latent variable modelling.

Education __

Bocconi University Milan, Italy

PhD, STATISTICS 2019 - 2024 (Exp.)

· Advisors: O. Papaspiliopoulos, D. Durante

University of Turin Turin, Italy

MSC, STOCHASTICS AND DATA SCIENCE

2017 - 2019

- Thesis: Quantitative and Ontology-Based eXplainable Artificial Intelligence techniques for Computer Vision
- Grade: 110/110 summa cum laude, with special mention for the academic curriculum

University of Milano-Bicocca

Milan, Italy

BSc, Statistics and Information Management

2014 - 2017

- Thesis: Analysis of the scientific network in PubMed using Graph Databases
- Grade: 110/110 summa cum laude

Research Experience _____

ISI Foundation Turin, Italy

RESEARCH INTERNSHIP - DEEP LEARNING & XAI

Feb 2019 - Sep 2019

· Application of eXplainable Artificial Intelligence to Computer Vision and Convolutional Neural Networks

CRISP Milan, Italy

RESEARCH INTERNSHIP - DATA SCIENCE

Sep 2016 - Mar 2017

• Implementation of a Graph Database, exploiting NLP techniques, data & graph analysis

Publications _____

PUBLISHED

Borgonovo, E., **Ghidini, V.**, Hahn, R., Plischke, E. ¹ 2023. Explaining Classifiers with Measures of Statistical Association. Computational Statistics & Data Analysis, Accepted.

Ghidini, V., Perotti A., Schifanella R., 2019. Quantitative and Ontology-Based Comparison of Explanations for Image Classification. Lecture Notes in Computer Science 11943, 58-70.

IN PREP

Bayesian clustering of weighted networks with spatial node attributes, joint work with S. Legramanti, R. Argiento.

Bayesian nonparametric clustering of multiplex networks, joint work with D. Durante, O. Papaspiliopoulos.

Linear models with assumptions-free residuals: a Bayesian nonparametric approach, joint work with F. Ascolani.

¹Authors in alphabetical order

Presentations _____

CONTRIBUTED TALKS

Workshop on CLUstering: Bayesian Partition Models for Precise Medicine February 2023, 24 — Turin, Italy.

INFORMS Annual Meeting, October 24-27, 2021 — Anaheim, California (online).

International Conference on Machine Learning, Optimization, and Data Science, September 10-13, 2019 — Pavia, Italy.

POSTERS

EAC ISBA, July 8 - 9, 2022 — Taiwan (online).

ISBA World Meeting June 26 - July 2, 2022 — Montreal, Canada.

OTHER

Seminar series on Responsible Modelling in Uncertain Times November 2021 — Panel discussion.

Awards_____

Travel grant (on competitive basis) for 2022 World Meeting of the International Society for Bayesian Analysis, Montreal, Canada.

International Society for Bayesian Analysis, July 2022

PhD scolarship, four years.

Bocconi University, 2019

Teaching Experience _____

Spring 2022	Advanced Python (Data Science module) - course 30590, Adjunct Lecturer	Bocconi
- current		University
Fall 2021	Mathematics - course 30400, Teaching Assistant	Bocconi
		University
Spring 2021 -	Statistics, Teaching Assistant	University of
current		Bergamo
Fall 2020 -	Statistics - course 30001, Teaching Assistant	Bocconi
current		University

Editorial Work _____

Reviewer for the European Journal of Operation Research.

Certifications _____

Natural Language Processing with Classification and Vector Spaces (2021)

Institute: Coursera

Certificate number: GAJZ9GRHKN8D

PhD Beat - Bocconi Excellence in Advanced Teaching (2021)

Institute: Bocconi University

Deep Learning Specialization (2019)

Courses: Neural Networks and Deep Learning, Hyperparameters tuning, Sequence models, Convolutional Neural Net-

works.

Institute: Coursera

Certificate number: 9C4VZEV8YTW7

SAS Certified Base Programmer for SAS 9 (2017)

Institute: SAS Institute

Certificate number: BP069923v9

SAS Predictive Modeler Using SAS Miner 13 (2017)

Institute: SAS Institute

Certificate number: PMEM001296v13

First Certificate in English (FCE) (2013)
Institute: Cambridge Institute

Others ____

PROGRAMMING LANGUAGES

R, python, SAS: excellent SQL, cypher: intermediate C, C++, MATLAB: basics

LANGUAGES

Italian: native

English: fluent

PROFESSIONAL MEMBERSHIPS

International Society for Bayesian Analysis, ISBA Institute of Mathematical Statistics, IMS BayesLab of Bocconi Institute for Data Science and Analytics, BIDSA Societá Italiana di Statistica, SIS

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