Valentina Ghidini

PhD Student · Statistics

Bocconi University, Milan

■ valentina.ghidini95@gmail.com | 😭 valentinaghidini.github.io | 🕲 valentina.ghidini.

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 - present

• Advisors: O. Papaspiliopoulos, D. Durante

University of Turin Turin, Italy 2017 - 2019

MSC, STOCHASTICS AND DATA SCIENCE

• 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

Ghidini, V., Perotti A., Schifanella R.. 2019. Quantitative and Ontology-Based Comparison of Explanations for Image Classification. Machine Learning, Optimization, and Data Science. LOD 2019. Lecture Notes in Computer Science, vol 11943. Springer

UNDER REVIEW

Post-hoc Explanations through Probabilistic Sensitivity Measures, joint work with E. Borgonovo et al. (2021+)

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.

Presentations_

CONFERENCES

2022 EAC ISBA

July 8 - July 9, 2022

Title (poster): Life is not symmetric: assumptions-free residuals with a BNP approach

joint work with F. Ascolani

Taiwan (online)

2022 ISBA World Meeting

June 26 - July 2, 2022

Title (poster): Life is not symmetric: assumptions-free residuals with a BNP approach

joint work with F. Ascolani

Montreal, Canada

2021 INFORMS Annual Meeting

October 24-27, 2021

Title: Post-hoc Explanations through Probabilistic Sensitivity Measures

joint work with E. Borgonovo et al.

Anaheim, California (online)

LOD 2019 - The Fifth International Conference on Machine Learning, Optimization, and Data Science

September 10-13, 2019

Title: Quantitative and Ontology-Based Comparison of Explanations for Image Classification

joint work with A. Perotti et al.

Pavia, Italy

OTHER

CEST-UCL seminar series on Responsible Modelling in Uncertain Times

November 2021

Title: What assumptions do we make when using black box predictive models?

Panel discussion with C. Rudin, P. Beneventano.

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	Воссопі
- 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 _____

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

SIS - Societá Italiana di Statistica

IMS - Institute of Mathematical Statistics

ISBA - International Society for Bayesian Analysis