

Valentina Ghidini

PHD STUDENT · STATISTICS

Bocconi University, Milan

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Education

Bocconi University

PHD FELLOW - STATISTICS

Milan, Italy

2019 - present

University of Turin

MSC, STOCHASTICS AND DATA SCIENCE

Turin, Italy

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

BSC, STATISTICS AND INFORMATION MANAGEMENT

Milan, Italy

2014 - 2017

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

Professional Experience

ISI Foundation

RESEARCH INTERNSHIP - DEEP LEARNING & XAI

Turin, Italy

Feb 2019 - Sep 2019

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

CRISP

RESEARCH INTERNSHIP - DATA SCIENCE

Milan, Italy

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

TALKS

Classifier Interpretability with Measures of Statistical Association, INFORMS meeting (October 2021 - Anaheim, California)

IN PREP

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

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

Dependence-free variable importance measures using graph structure, joint work with E. Borgonovo, C. Rudin

Teaching Experience

Fall 2021	Statistics - course 30001, Mathematics - course 30400 , Teaching Assistant	Bocconi University
Spring 2021	Statistics , Teaching Assistant	University of Bergamo
Fall 2020	Statistics - course 30001 , Teaching Assistant	Bocconi University
Spring 2015	Mathematics , Tutor in a middle school	Istituto Comprensivo di Basiglio

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 Networks.

Institute: Coursera

Certificate number: 9C4VZE8YTW7

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 - Società Italiana di Statistica

IMS - Institute of Mathematical Statistics