

Marika D'Agostini

Dept. of Statistical Sciences
University of Bologna
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Education

- 2023 – **PhD in Statistical Sciences**
University of Bologna
Supervisors: Prof. Massimo Ventrucci, Prof. Andrea Ranzi
Research: Statistical modelling for investigating climate and outdoor air pollution effects on health
- 2021 – 2022 **Second Level Master Degree in Geostatistics for Human, Animal and Environmental Health**
University of Padova
Final grade: Excellent
Thesis: *"Data analysis of air quality sensors: the case study of Villa Revedin-Bolasco"*
Supervisor: Prof. Francesco Pirotti
- 2018 – 2020 **MSc in Statistical Sciences - curr. Data Science**
University of Bologna
Final grade: 110/110 cum Laude
Thesis: *"Quantifying land fragmentation: an entropy-based approach"*
Supervisor: Prof. Daniela Cocchi
Co-supervisors: Dr. Angela Ferruzza, Dr. Giovanna Tagliacozzo
- 2015 – 2018 **BSc in Statistical Sciences - curr. Stats & Maths**
University of Bologna
Final grade: 110/110 cum Laude
Thesis: *"Features of the Italian population according to the Degree of Urbanization (DEGURBA) classification"*
Supervisor: Prof. Daniela Cocchi

Research and Teaching Experience

- Nov 2023 - **Teaching Tutor**
Dept. of Statistical Sciences, University of Bologna, Bologna, Italy
Course: Bayesian Inference (MSc in Statistical Sciences)

- Feb - Oct **Research Fellow**
2023 *Dept. of Medical and Surgical Sciences - University of Bologna, Bologna, Italy*
Project: Data Management and analysis for WP5 of ORCHESTRA Cohort project
Supervisor: Prof. Paolo Boffetta
- Jan 2021 **Data Science Researcher**
- Jan 2023 *GeoSmart.Lab - Research Laboratory on Geographic Sciences and Technologies and Smart Cities, Imola, Italy*
Project: Deep Learning and optimization algorithms for smart waste management
Supervisor: Dr. Arch. Alessandro Serravalli
- Jan - June **Erasmus+ Programme**
2019 *Dept. of Mathematical Sciences - Aarhus Universitet, Aarhus, Denmark*
- May - July **Statistics Intern**
2020 *ISTAT - Italian National Institute of Statistics, Rome, Italy*
Project: Statistics for climate change, extreme events, and disasters
Supervisors: Dr. Angela Ferruzza, Dr. Giovanna Tagliacozzo

Publications

Peer-Reviewed Scientific Journals

- 2024 **Protective role of SARS-CoV-2 anti-S IgG against breakthrough infections among European healthcare workers during pre and post-Omicron surge – ORCHESTRA Project**
Spiteri G, D'Agostini M, Abedini M, *et al.* *Infection*. 2024.
doi: 10.1007/s15010-024-02189-x
- 2022 **Information technologies for real-time mapping of human well-being indicators in an urban historical garden**
Pirotti F, Piragnolo M, D'Agostini M, Cavalli R. *Future Internet*. 2022; 14(10):280.
doi: 10.3390/fi14100280

Conference Proceedings

- 2022 **Smart urban waste management system: the case study of Delft, Netherlands**
D'Agostini M, Venturi S, Vigo E. In: Borgogno-Mondino E, Zamperlin P (eds) *Geomatics for Green and Digital Transition. ASITA 2022*, Communications in Computer and Information Science, vol 1651. Springer, Cham; 2022.
doi: 10.1007/978-3-031-17439-1_13

Conferences

Platform Presentations

- 2022 **Smart urban waste management system: the case study of Delft, Netherlands**
ASITA 2022 - Italian Conference on Geomatics and Geospatial Technologies,
Genoa (Italy). June 20-24, 2022

Contributed Presentations

- 2024 **Protective role of anti-S IgG against SARS-CoV-2 during the Omicron variant wave among healthcare workers: results from two large Italian university hospitals – ORCHESTRA Project** [Abstract] *ICOH 2024 - 34th International Congress on Occupational Health*, Marrakesh (Morocco). April 28 - May 3, 2024.
- 2023 **Screening for Helicobacter pylori infection in Italian health care workers - HPOS** [Poster] *85th National Congress of Occupational Medicine SIML*, Turin (Italy). September 20-22, 2023.

Work Experience

- 2021-2023 **Sis.Ter srl**, *Data Scientist*, Imola, Italy.
- 2018 **Ente Parco Nazionale Dolomiti Bellunesi**, *GIS Analyst Intern*, Feltre (BL), Italy.

Awards & Scholarships

- 2023 Scholarship "*Welfare Luxottica - XII Edition*"
- 2022 Scholarship "*Welfare Luxottica - XI Edition*"
- 2020 Scholarship "*Welfare Luxottica - IX Edition*"
- 2019 Erasmus+ Grant
- 2019 Scholarship "*Welfare Luxottica - VIII Edition*"
- 2018 Scholarship "*Welfare Luxottica - VII Edition*"

Competences

- Languages Italian (*Native Language*)
English (*Advanced*)
German (*Basic*)

Technical ■■■ R, Python, QGIS, \LaTeX
Skills ■■□ SQL, STATA, OpenBUGS, Wolfram Mathematica
■□□ ArcGIS, Google Earth Engine, MATLAB, SAS, Tableau

Last Update: April 2024