

Marika D'Agostini | CURRICULUM VITAE

♥ Viale Quirico Filopanti 5 – 40126 – Bologna, Italy

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Education

- **PhD in Statistical Sciences**, University of Bologna Nov 2023 – Present
 - Research Topic: *Bayesian statistical modelling to investigate the effects of climate and air pollution on health*
 - Supervisors: Prof. Massimo Ventrucchi, Prof. Andrea Ranzi
 - Funder: Regional Agency for Prevention, Environment and Energy of Emilia-Romagna, Italy (ARPAE)
- **Second Level Master Degree in Geostatistics for Human, Animal and Environmental Health**, University of Padova Nov 2021 – Sept 2022
 - Final grade: Excellent
 - Thesis: *Data analysis of air quality sensors: the case study of Villa Revedin-Bolasco*
 - Supervisor: Prof. Francesco Pirotti
- **MSc in Statistical Sciences** (curr. Data Science), University of Bologna Sept 2018 – Dec 2020
 - 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
- **Study Period Abroad**, Aarhus University (Department of Mathematics), DK Jan – June 2019
 - Erasmus+ Programme
- **BSc in Statistical Sciences** (curr. Stats & Maths), University of Bologna Sept 2015 – July 2018
 - Final grade: 110/110 cum Laude
 - Thesis: *Features of the Italian population according to the DEGURBA classification*
 - Supervisor: Prof. Daniela Cocchi

Research Experience

- **Research Fellow**, DIMEC, University of Bologna Feb – Nov 2023
 - Research Topic: *Data management and analysis for WP5 of ORCHESTRA Cohort project*
 - Supervisor: Prof. Paolo Boffetta

○ **Data Science Researcher**, GeoSmart.Lab by SIS-TER s.r.l. SB

Jan 2021 – Jan 2023

- Research Topic: *Deep Learning algorithms for smart waste management*
- Supervisor: Dr. Arch. Alessandro Serravalli

Teaching Experience

Teaching Tutor

○ *Bayesian Inference* (MSc in Statistical Sciences - University of Bologna)

A.Y. 2023/24, 2024/25

Publications

Journal Papers

1. **D'Agostini M, Collatuzzo G, Teglia F, Boffetta P. (2024) Risk of gynecological and breast cancers in workers exposed to diesel exhaust: a systematic review and meta-analysis of cohort studies.** *La Medicina Del Lavoro | Work, Environment and Health*. 115(3):e2024011. doi: [10.23749/mdl.v115i3.15568](https://doi.org/10.23749/mdl.v115i3.15568)
2. **D'Agostini M, Collatuzzo G, Teglia F, Boffetta P (2024) Risk of skin cancer in workers exposed to diesel exhaust: a systematic review and meta-analysis of cohort studies.** *La Medicina Del Lavoro | Work, Environment and Health*. 115(2):e2024010. doi: [10.23749/mdl.v115i2.15569](https://doi.org/10.23749/mdl.v115i2.15569)
3. **Spiteri G, D'Agostini M, Abedini M, Ditano G, Collatuzzo G, Boffetta P, Vimercati L, Sansone E, De Palma G, Modenese A, Gobba F, Liviero F, Moretto A, dell'Omo M, Fiordi T, Larese Filon F, Mauro M, Violán C, Mates D, Oravec Béréšová J, Monaco MGL, Carta A, Verlato G, Porru S. (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.** *Infection*. doi: [10.1007/s15010-024-02189-x](https://doi.org/10.1007/s15010-024-02189-x)
4. **Pirotti F, Piragnolo M, D'Agostini M, Cavalli R. (2022) Information technologies for real-time mapping of human well-being indicators in an urban historical garden.** *Future Internet*. 14(10):280. doi: [10.3390/fi14100280](https://doi.org/10.3390/fi14100280)

Conference Proceedings

5. **Spiteri G, Monaco MGL, Carta A, D'Agostini M, Abedini M, Liviero F, Scapellato ML, Porru S. (2024). O-015 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.** In: Abstract Book ICOH2024 Congress Proceedings - April 28 to May 3, 2024. *Occupational Medicine (Oxford, England)*, 74(Supplement_1). doi:[10.1093/occmed/kqae023.0451](https://doi.org/10.1093/occmed/kqae023.0451)
6. **D'Agostini M, Venturi S, Vigo E. (2022) Smart urban waste management system: the case study of Delft, Netherlands.** In: *Geomatics for Green and Digital Transition, ASITA 2022*. Communications in computer and information science. Springer International Publishing; 178-192. doi: [10.1007/978-3-031-17439-1_13](https://doi.org/10.1007/978-3-031-17439-1_13)

Conferences

(Works presented by the first author)

Oral Presentations

1. **D'Agostini M**, Ventrucci M, Fondriest M, Vaccari L, Vaccari M, Bortone G, Ferretti F, Fiorentino C, Perlangeli V, Pandolfi P, Ranzi A. (2025) **L'uso di modelli Bayesiani nella previsione spaziale del virus SARS-CoV-2: un caso studio di wastewater-based epidemiology nell'area di Bologna.**
AIE 2025 - 49th National Congress of the Italian Association of Epidemiology, Salerno, Italy.

Posters

2. Costanzucci Paolino MV, Collatuzzo G, Renieri T, Danilevskaia N, Astolfi L, Zafeiratou M, Magni L, Violante FS, Vaira B, **D'Agostini M**, Pavoni M, Fiorini G, Boffetta P. (2023)
Screening for Helicobacter pylori infection in Italian health care workers – HPOS.
SIML 2023 - 85th National Congress of Occupational Medicine, Turin, Italy.

Awards and Scholarships

○ 39th Cycle PhD Scholarship	2023 – 2026
○ Scholarship "Welfare Luxottica - XII Edition"	2023
○ Scholarship "Welfare Luxottica - X Edition"	2021
○ Scholarship "Welfare Luxottica - IX Edition"	2020
○ Erasmus+ Grant	2019
○ Scholarship "Welfare Luxottica - VIII Edition"	2019
○ Study Grant "150 Hours Collaboration - 2017/2018"	2018
○ Scholarship "Welfare Luxottica - VII Edition"	2018

Industry Experience

○ Data Scientist , SIS-TER s.r.l. SB, Imola (BO), Italy	Jan 2021 – Jan 2023
○ Statistics Intern , ISTAT - Italian National Institute of Statistics, Rome, Italy	Apr – July 2020
○ GIS Analyst Intern , Ente Parco Nazionale Dolomiti Bellunesi, Feltre (BL), Italy	Jan – Mar 2018

Institutional Activities

○ PhD Students Representative Department of Statistical Sciences "Paolo Fortunati", University of Bologna	2023 – 2026
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Additional Education

○ University of Durham (UK) , Academy for PhD Training in Statistics (APTS)	July 2024
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Society Memberships and Research Networks

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| ○ Women+ in Geospatial | since 2021 |
| ○ SIS - Italian Statistical Society | since 2024 |
| ○ ISBA - International Society for Bayesian Analysis | since 2025 |
| ○ AIE - Italian Association of Epidemiology | since 2025 |

Competences

Languages

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

Technical Skills

- ■ ■ R, QGIS, L^AT_EX, Microsoft Office
- ■ □ Python, STATA, Google Earth Engine, Wolfram Mathematica
- □ □ ArcGIS, OpenBUGS, MATLAB, Tableau

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Bologna - April 16, 2025