

PAOLO DALENA

Researcher - Data Scientist

@ paolodalena97@gmail.com in <https://www.linkedin.com/in/paolo-dalena/>
📄 <https://github.com/PaoloDalena>



RESEARCH EXPERIENCE

Health Researcher

WHO Collaborating Center - IRCCS Burlo Garofolo

📅 Jan 2022 – Present 📍 Trieste, Italy

- Participation in national and international projects as a bio-statistician/data scientist;
- Research topics: maternal and child health, health system research, implementation of WHO recommendations in low and middle-income countries
- Supervisor: Marzia Lazzarini

Internship Master thesis

Institute for Mathematical Biology - Hochschule Mannheim

📅 Apr 2021 – Sep 2021 📍 Mannheim, Germany

- Collaboration for Master thesis *Circular codes, reading frames and error correction in translation* - Erasmus+ program;
- Supervisors: Simone Giannerini, Lutz Strüngmann

Internship Master student

Bundesbank Research Centre

📅 Feb 2021 – Apr 2021 📍 Frankfurt am Main, Germany

- Undisclosed project on quality assessment of research centre's publications;
- Applied techniques: Big Data Analytics, Text Mining;
- Supervisor: Julia Sturm

Internship Bachelor student

Unit of Biostatistics, Epidemiology and Public Health – University of Padua

📅 Jan 2019 – Mar 2019 📍 Padua, Italy

- Text mining on complex text sources: tumor marker guidelines. Developing of an R package to import text from PDF files;
- Acquired skills and achieved objectives: Data Science with R, understanding of R language, R programming, R Package developing;
- Supervisors: Dario Gregori, Corrado Lanera

ADDITIONAL INFORMATION

- Erasmus+ Student at Hochschule Mannheim 📅 Feb 2021 - Apr 2021
- Private lessons for Bachelor and Master students 📅 Jan 2017 - Jan 2021
- PeerJ Enhanced Lifetime Individual Membership, Leanpub Lifetime Reader Membership (hackathon prizes)

EDUCATION

Second-level Short Specialisation Degree in Machine learning and big data in precision medicine and biomedical research

University of Padua, Italy

📅 Dic 2022 - Oct 2023 (expected)

Master degree in Statistics

Alma Mater Studiorum - University of Bologna, Italy

📅 Sep 2019 - Oct 2021

- Curriculum Data Science (fully taught in English)
- Grade 110/110 L - Weighted avg 28,78/30
- Thesis title: **Circular codes, reading frames and error correction in translation**
- Supervisor: Simone Giannerini, Lutz Strüngmann

Bachelor degree in Statistics

Alma Mater Studiorum - University of Bologna, Italy

📅 Sep 2016 - Jul 2019

- Curriculum Economics & business
- Grade 110/110 L - Weighted avg 29,15/30
- Thesis title: **Text Mining On Complex Text Sources: Analysis Of The Final Considerations Of The Governor On The Annual Reports Of The Bank Of Italy From 2008 To 2017**
- Supervisors: Ignazio Drudi, Fabrizio Alboni, Corrado Lanera

PROGRAMMING SKILLS

- R-programming:
 - Data Science
 - Machine Learning
- Reproducible research - R Markdown, book-down, pkgdown, blogdown
- Packages developing
- Data visualisation - ggplot2, plotly
- Version control - Git, Github, GitLab
- HTML, CSS, Javascript (basic level)
- SPSS, Stata, SAS (basic level)

PUBLICATIONS

- *Women's suggestions on how to improve the quality of maternal and newborn care during the COVID-19 pandemic in Italy: A co-occurrence network analysis*
S. Geremia*, E. Pessa Valente, I. Mariani, P. Dalena, M. Lazzerini
[Journal of Global Health \(2023\) - open access](#)
- *Implementation of the WHO standards to assess the quality of care for children with acute respiratory infections: findings of a multicenter study (CHOICE) in Italy*
M. Lazzerini, M. Dagnelut, P. Dalena*, I. Sforzi, M. Toniutti, E. Felici, et al.
Accepted as a dedicated supplement on Journal of Pediatrics (currently under peer review)
- *Implementation of the WHO standards to assess the quality of care for children with acute diarrhea: findings of a multicenter study (CHOICE) in Italy*
M. Lazzerini, P. Dalena*, I. Sforzi, I. Liguoro, E. Felici, S. Martellosi, et al.
Accepted as a dedicated supplement on Journal of Pediatrics (currently under peer review)
- *Implementation of the WHO standards to assess the quality of care for children with acute pain in EDs: findings of a multicenter study (CHOICE) in Italy*
E. Balestra, G. Cozzi, I. Sforzi, I. Liguoro, E. Felici, S. Fasoli, et al. (P. Dalena* 10th aut.)
Accepted as a dedicated supplement on Journal of Pediatrics (currently under peer review)
- *Implementation of the WHO standards to assess the quality of pediatric care using service users as source of data: findings of a multicenter study (CHOICE) in Italy*
S. Bressan, G. Sartor, P. Dalena*, E. Balestra, A. Madera, F. Marchetti, et al.
Accepted as a dedicated supplement on Journal of Pediatrics (currently under peer review)

LANGUAGES

Italian
English



PROFESSIONAL ACHIEVEMENTS

- R package **tastypie** available on CRAN
10/02/2021
- 30th International Pediatric Association (IPA) Congress & 60th Annual Conference of the Indian Academy of Pediatrics (IAP)
 - 1 Oral Presentation
 - 3 Poster Presentation18/02/2023 - 22/02/2023
Gandhinagar, India
- MOnitoring Outbreaks for Disease surveillance in a data science context (MOOD) Summer School 2023
 - Awarded of merit-based scholarship
 - 1st classified hackathon *Predicting the occurrence of ticks in the UK between 2014-2021*21/05/2023 - 27/05/2023
Split, Croatia

HOBBIES & INTERESTS

My hobbies are playing football and climbing. I love travelling.