PAOLO DALENA

PhD Student in Applied Data Science & Artificial Intelligence (ADSAI) Health Researcher

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O https://github.com/PaoloDalena % https://paolodalena.netlify.app/



RESEARCH EXPERIENCE

PhD Student in ADSAI

University of Trieste

Mov 2023 - Present

- ▼ Trieste, Italy
- Project title: Development of a prioritization algorithm of pathogenic variants based on public databases of different origins;
- Supervisors: Giulia Barbati, Pio A. D'Adamo, Massimo Zeviani

Health Researcher

IRCCS Burlo Garofolo

🛗 Jan 2022 - Present

- ♥ Trieste, Italy
- WHO Collaborating Center for maternal and child health;
- Pediatric clinic & genomics (from Nov 2023);
- Participation in national and international projects as a biostatistician & data scientist;
- Research topics: maternal and child health, health system research, implementation of WHO recommendations in low and middle-income countries, health data analytics, genomics;
- Supervisor: Marzia Lazzerini, Egidio Barbi (from Nov 2023)

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

H Feb 2021 - Apr 2021

- ♥ Frankfurt am Main, Germany
- Undisclosed project on quality assessment of research center's publications;
- Applied techniques: Big Data Analytics, Text Mining

Internship Bachelor student

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

m Jen 2019 - Mar 2019

- Padua, Italy
- Text mining on complex text sources: tumor marker guidelines. Development 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

EDUCATION

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

University of Padua, Italy

m Dic 2022 - Oct 2023

Master degree in Statistics

Alma Mater Studiorum - University of Bologna, Italy

math 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

- 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, bookdown, 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 cooccurrence 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*, et al.

Accepted as a dedicated supplement on BMJ Paediatrics Open (accepted, sent to production, doi: 10.1136/bmjpo-2024-002552)

- 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, et al.
 - Accepted as a dedicated supplement on BMJ Paediatrics Open (accepted, sent to production, doi: 10.1136/bmjpo-2024-002569)
- 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, et al. (P. Dalena* 10th aut.) Accepted as a dedicated supplement on BMJ Paediatrics Open (accepted, sent to production, doi: 10.1136/bmjpo-2024-002610)
- 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*, et al.
 Accepted as a dedicated supplement on BMJ Paediatrics Open (currently under review)
- Parental stress, depression, anxiety and participation in care in Neonatal Intensive Care Unit: a cross-sectional study in Italy comparing mothers versus fathers
 J. Bua, P. Dalena*, I. Mariani, et al. Accepted as a dedicated supplement on BMJ Paediatrics Open (2024) - open access
- Parental stress, depression, anxiety and participation to care in Neonatal Intensive Care Units: results of a prospective study in Italy, Brazil, and Tanzania
 M. Lazzerini, D. Barcala Coutinho do Amaral Gomez, G. Azzi-

M. Lazzerini, D. Barcala Coutinno do Amaral Gomez, G. Azzimonti, et al. (P. Dalena* 14th aut.)

Accepted as a dedicated supplement on BM I Paediatrics One

- Accepted as a dedicated supplement on BMJ Paediatrics Open (accepted, sent to production, doi: 10.1136/bmjpo-2024-002539)
- A lesson for understanding parents' perspective: perception of quality of care and COVID-19 related fears among users of pediatric health services over the COVID-19 pandemic in 11 facilities in Italy
 - P. Dalena, A. Zago*, A. Troisi, et al. Italian Journal of Pediatrics (currently under review)

LANGUAGES

Italian English French



CONFERENCES & SCHOOLS

- 30th International Pediatric Association (IPA)
 Congress & 60th Annual Conference of the Indian Academy of Pediatrics (IAP)
 - 1 Oral Presentation
 - 3 Poster Presentation

18/02/2023 - 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

 European Scientific Conference on Applied Infectious Disease Epidemiology 2023 22/10/2023 - 24/10/2023 Barcelona, Spain

PROFESSIONAL ACHIEVEMENTS

- R package tastypie available on CRAN 10/02/2021
- PeerJ Enhanced Lifetime Individual Membership, Leanpub Lifetime Reader Membership (hackathon prizes)
- Reviewer for Frontiers (Endocrinology)
 From Dec 2023
- Tutor for the course Health Data Analytics (UniTS, 2024)

HOBBIES & INTERESTS

My hobbies are playing football and climbing.

In compliance with the GDPR and Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned Decree. July 1, 2024