PAOLO DALENA

PhD Student in Applied Data Science & Artificial Intelligence @UniTS Health Researcher @IRRCS Burlo Garofolo

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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

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

- 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
- Supervisors: 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 doi: 10.7189/jogh.13.06013

Journal of Global Health (2023) - open access

 Evaluation of the WHO standards to assess quality of care for children with acute respiratory infections: findings of a baseline multicentre assessment (CHOICE) in Italy
 M. Lazzerini, M. Dagnelut, P. Dalena*, et al. doi: 10.1136/bmjpo-2024-002552

BMJ Paediatrics Open (2024) - open access

 Implementation of the WHO standards to assess the quality of care for children with acute diarrhoea: findings of a multicentre study (CHOICE) in Italy

M. Lazzerini, I. Sforzi, I.Liguoro, et al. (P. Dalena* last author) doi: 10.1136/bmjpo-2024-002569

BMJ Paediatrics Open (2024) - open access

 Implementation of the WHO standards to assess quality of care for children with acute pain in EDs: findings of a multicentre study (CHOICE) in Italy

E. Balestra, G. Cozzi, I. Sforzi, et al. doi: 10.1136/bmjpo-2024-002610

BMJ Paediatrics Open (2024) - open access

 Implementation of the WHO Standards to assess quality of paediatric care at the facility level using service users' perspective as source of data: a multicentre quality improvement study in Italy S. Bressan, G. Sartor, P. Dalena*, et al. doi: 10.1136/bmjpo-2024-002600

BMJ Paediatrics Open (2024) - open access

 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. doi: 10.1136/bmjpo-2023-002429 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.B.C. do Amaral Gomez, G. Azzimonti, et al. doi: 10.1136/bmjpo-2024-002539

BMJ Paediatrics Open (2024) - open access

 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. doi: 10.1136/bmjpo-2024-002926 BMJ Paediatrics Open (2024) - open access

HOBBIES & INTERESTS

My hobbies are playing football and climbing.

LANGUAGES

Italian English French



CONFERENCES

 30th International Pediatric Association (IPA)
 Congress & 60th Annual Conference of the Indian Academy of Pediatrics (IAP) 2023

- 1 oral & 3 poster presentations

18/02/2023 - 22/02/2023 Gandhinagar, India

- European Scientific Conference on Applied Infectious Disease Epidemiology (ESCAIDE) 22/10/2023 - 24/10/2023 Barcelona, Spain
- 45th Annual Conference of the International Society for Clinical Biostatistics (ISCB) 2024
 - 2 poster presentations

21/07/2024 - 25/07/2024 Thessaloniki, Greece

 13th International Conference on Complex Networks and their Applications (CNA) 2024

- 1 oral presentation

10/12/2024 - 12/12/2024 Istanbul, Turkey

SCHOOLS

- 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

- Utrecht Summer School 2024 Advanced Multilevel Analysis 15/07/2024 - 17/07/2024 Utrecht, The Netherlands
- CINECA High Performance Bioinformatics 04/12/2024 06/12/2024 Rome, Italy

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
- Co-teaching for the course Statistical Learning in Epidemiology (UniTS, 2023/24)

CONFERENCE PROCEEDINGS

 62nd Annual Meeting of the European Society for Paediatric Endocrinology (ESPE) 2024

Decreased serum DHEAS to cortisol ratio in adolescents evaluated for gender dysphoria

G. Tornese, G. Bresciani, A. Roia, et al.

doi: 10.1159/000541189

Hormone Research in Paediatrics (2024) - open access

 50th Annual Conference International Society for Pediatric and Adolescent Diabetes (ISPAD) 2024
 Carbohydrates intake in children and adolescents with type 1 diabetes mellitus and its relation with physical activity
 C. Carletti, V. Manfredini, G. Tamaro, et al. doi: 10.1159/000541195

Hormone Research in Paediatrics (2024) - open access

 13th International Conference on Complex Networks and their Applications (CNA) 2024
 RedKinNet: Node Centrality-Driven Kinship Matrix Reduction P. Dalena, S. Geremia, G. Barbati, P. A. D'Adamo

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