

# PAOLO DALENA

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

@ [REDACTED] in [REDACTED]  
[REDACTED]



## RESEARCH EXPERIENCE

PhD Student in ADSAI

University of Trieste

📅 Nov 2023 – Present 📍 Trieste, Italy

- Project title: *Development of a prioritization algorithm of pathogenic variants based on public databases of different origins;*
- Supervisors: [REDACTED]

Health Researcher

IRCCS Burlo Garofolo

📅 Jan 2022 – Present 📍 Trieste, Italy

- *Pediatric clinic & genomics* (from Nov 2023);
- Participation in national and international projects as a biostatistician & data scientist;
- Training of residents for epidemiology and data analysis;
- Research topics: health data analytics, genomics;
- Supervisor: [REDACTED]
  
- *WHO Collaborating Center for maternal and child health;*
- Research topics: maternal and child health, health system research, implementation of WHO recommendations;
- Supervisor: [REDACTED]

Internship Master thesis

Institute for Mathematical Biology - Hochschule Mannheim

📅 Apr 2021 – Sep 2021 📍 Mannheim, Germany

- Collaboration for Master thesis - Erasmus+ program;
- Supervisors: [REDACTED]

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

📅 Jan 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: data science with R, understanding of R language, R programming, R package developing;
- Supervisors: [REDACTED]

## 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

- Thesis title: *Prioritization of differential methylation regions for the prediction of celiac disease*

Master degree in Statistics

Alma Mater Studiorum - University of Bologna, Italy

📅 Sep 2019 - Oct 2021

- Curriculum Data Science (taught in English)
- Grade 110/110 L [REDACTED]
- Thesis title: *Circular codes, reading frames and error correction in translation*
- Supervisors: [REDACTED]

Bachelor degree in Statistics

Alma Mater Studiorum - University of Bologna, Italy

📅 Sep 2016 - Jul 2019

- Curriculum Economics & business
- Grade 110/110 L [REDACTED]
- 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: [REDACTED]

## 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)

## TEACHING EXPERIENCE

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- Training of residents for epidemiology and data analysis (IRCCS Burlo Garofolo, from Nov 2023)
- Co-teaching for the course "Statistical Learning in Epidemiology" (University of Trieste, 2023/24)
- Teaching for the course "Mathematics and general statistics" (LifeTech ITS Academy, Trieste, 2024/25)

## PUBLICATIONS

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- *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  
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 paediatric 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

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## LANGUAGES

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Italian  
English  
French



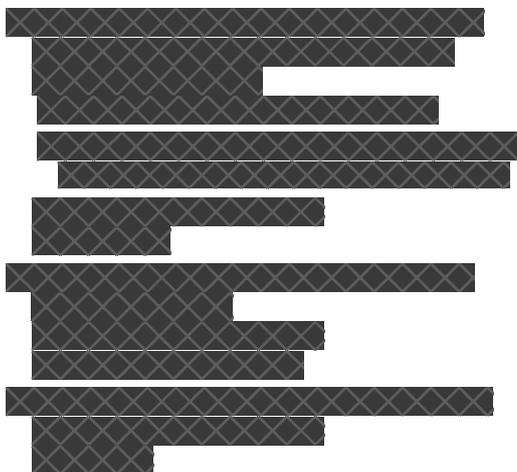
## CONFERENCES

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- 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

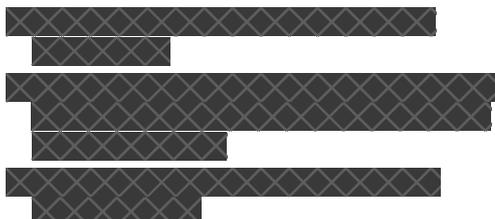
## SCHOOLS

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## PROFESSIONAL ACHIEVEMENTS

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# CONFERENCE PROCEEDINGS

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- 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