

# Paolo Dalena

 **Work** : Trieste, Italy

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 **GitHub**: <https://github.com/PaoloDalena>

## WORK EXPERIENCE

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[ 02/2023 – Current ]

### Health Researcher, Data Scientist

*WHO Collaborating Center - Institute of maternal and child health IRCCS Burlo Garofolo*

**City**: Trieste

**Country**: Italy

**Main activities and responsibilities:**

- Statistical analysis of data from active national and international projects.
- Project management.
- Writing scientific papers.

[ 01/2022 – 01/2023 ]

### Research collaborator, Data Scientist

*WHO Collaborating Center - Institute of maternal and child health IRCCS Burlo Garofolo*

**City**: Trieste

**Country**: Italy

**Main activities and responsibilities:**

- Statistical analysis of data from active national and international projects.
- Project management.
- Writing scientific papers.

[ 02/2021 – 04/2021 ]

### Research Intern

*Research Centre | Deutsche Bundesbank*

**City**: Frankfurt am Main

**Country**: Germany

- **Main activities and responsibilities**: Analysis and evaluation of research projects and recent publications. Text Mining, Big Data Analytics and Network Analysis with R.
- **Acquired skills and achieved objectives**: Deeper understanding of complex Clustering techniques, Polynomial Regression Models and Decision Tree Learning. Ability to collaborate in a research team and summarise and present results to collaborators.
- **Employed as**: Full-time Research Intern | Duration of the project: 8 weeks | Company sector: Research Evaluation

[ 01/2019 – 03/2019 ]

### Participation in research projects

*University of Padova*

**City**: Padova

**Country**: Italy

**Name of unit or department**: Unit Of Biostatistics , Epidemiology and Public Health

**Business or sector**: Education

- **Main activities and responsibilities**: Text mining on complex text sources: tumor marker guidelines. Developing of an R package able to import text from PDF files.
- **Acquired skills and achieved objectives**: Data Science through R. Understanding of R language. Ability to program on R and develop an R Package.
- **Employed as**: intern/trainee - undergraduate internship | Company sector: Data Mining & Artificial Intelligence

[ 01/2017 – 01/2021 ]

### Tutor in Statistics and Programming with R

*Superprof.it*

**City**: Bologna

**Country**: Italy

- **Main activities and responsibilities**: Private lessons in Statistics, Probability, Data Analysis and Programming with R for undergraduate students of Bachelor's and Master's Degree Courses.

- **Acquired skills and achieved objectives:** Ability to share and integrate knowledge adapting it to different contexts and study paths.

## EDUCATION AND TRAINING

[ 09/2022 – 09/2023 ]

### Second-level short specialisation degree (Master II livello) - Machine learning and big data in precision medicine and biomedical research

*University of Padova*

[ 09/2019 – 10/2021 ]

### M. Sc. Statistical Sciences - Curriculum Data Science

*Alma Mater Studiorum - University of Bologna*

**Address:** Bologna, Italy

**Final grade:** 110/110 cum Laude

**Thesis:** [https://paolodalena.netlify.app/project/master\\_thesis/](https://paolodalena.netlify.app/project/master_thesis/)

- **Thesis title:** Circular codes, reading frames and error correction in translation
- **Thesis subject:** Statistics & Big Data Analytics
- **Thesis supervisor:** prof. Simone Giannerini
- **Language of the course:** English

[ 04/2021 – 09/2021 ]

### Erasmus Exchange

*Hochschule Mannheim - Mannheim University of Applied Sciences*

**Address:** 68163, Mannheim, Germany

Collaboration on research projects with the Institute of Mathematical Biology (Department of Computer Sciences, Mannheim University of Applied Sciences) for the Master Thesis.

[ 09/2016 – 10/07/2019 ]

### Bachelor's degree in Statistical Sciences - Curriculum Economia & Impresa

*Alma Mater Studiorum - University of Bologna*

**Address:** Bologna, Italy

**Final grade:** 110/110 cum laude

**Thesis:** [https://paolodalena.github.io/bachelor\\_thesis\\_book/](https://paolodalena.github.io/bachelor_thesis_book/)

- **Thesis title:** Text Mining on complex text sources: analysis of the Governor's Concluding Remarks on the Annual Reports of the Bank of Italy from 2008 to 2017
- **Thesis subject:** Utilizzo Statistico di Banche Dati Economiche Online (Statistical Use of Online Economic Databases)
- **Thesis supervisor:** prof. Ignazio Drudi

## LANGUAGE SKILLS

**Mother tongue(s):** Italian

**Other language(s):**

### English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

### French

LISTENING B1 READING B1 WRITING B1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1

## DIGITAL SKILLS

### Programming Languages

Deep knowledge of R (Statistical Analysis, Data Science, Machine Learning, Package Developing) | Basic knowledge of CSS | Deep knowledge of R markdown | Basic knowledge of Python | Basic knowledge of HTML | Basic knowledge of JavaScript

### Operating Systems and Software

Excellent knowledge of RStudio IDE | Excellent knowledge of MS Office package | Basic knowledge of statistical software Stata, SPSS, SAS | Basic knowledge of Gretl (time series analysis)

## PUBLICATIONS

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[ 2023 ]

**Implementation of the WHO standards to assess quality of care for children with acute respiratory infections: findings of a multicenter study (CHOICE) in Italy**

**Reference:** Journal of Pediatrics

[ 2023 ]

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

**Reference:** Journal of Pediatrics

[ 2023 ]

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

**Reference:** Journal of Pediatrics

[ 2023 ]

**Service users' perspective on the quality of pediatric care: findings of a multicenter study (CHOICE) on the Implementation of the "WHO Standards for improving the quality of care in health facilities" in Italy**

**Reference:** Journal of Pediatrics

[ 2023 ]

**[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.](#)**

**Reference:** Journal of Global Health

## HOBBIES AND INTERESTS

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### Information:

I have always had a strong propensity for the digital, technological and IT world. My hobbies are climbing, hiking and playing football. I love travelling. In possession of a driving licence.

I am an R enthusiast. I have developed an R package to easily create pie charts and related graphs, called **tastypie**, which is available on CRAN (more information on the package's website: <https://paolodalena.github.io/tastypie/>) and I am currently working on developing two more R packages.

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*CV for the purpose of online dissemination. Updated 11/05/2023.*