



# Paolo Dalena

---

<https://paolodalena.netlify.app/> | <https://github.com/PaoloDalena>

## WORK EXPERIENCE

---

02/2021 – 04/2021 – Frankfurt am Main, Germany

### RESEARCH INTERN – RESEARCH CENTRE | DEUTSCHE BUNDESBANK

---

- **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 – Padova, Italy

### PARTICIPATION IN RESEARCH PROJECTS – UNIVERSITY OF PADOVA

---

- **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

Unit Of Biostatistics , Epidemiology and Public Health | Education

01/2017 – 01/2021 – Bologna, Italy

### TUTOR IN STATISTICS AND PROGRAMMING WITH R – SUPERPROF.IT

---

- **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

---

09/2019 – 10/2021 – Bologna, Italy

### M. SC. STATISTICAL SCIENCES - CURRICULUM DATA SCIENCE – Alma Mater Studiorum - University of Bologna

---

- **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

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

110/110 cum Laude

04/2021 – 09/2021 – Mannheim, Germany

**ERASMUS EXCHANGE** – Hochschule Mannheim - Mannheim University of Applied Sciences

---

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 – Bologna, Italy

**BACHELOR'S DEGREE IN STATISTICAL SCIENCES - CURRICULUM ECONOMIA & IMPRESA** – Alma Mater Studiorum - University of Bologna

---

- **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

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

110/110 cum laude

## ● LANGUAGE SKILLS

---

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1
FRENCH	B1	B1	B1	B1	B1

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## ● 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)

## ● HOBBIES AND INTERESTS

---

### Information:

---

I am a dynamic person, with a strong problem solving ability. I have no problem to work in teams and to respect deadlines also very close to each other. I have always had a strong propensity for the digital, technological and IT world.

My hobbies are trekking, playing football and traveling.

In possession of driving license.

I have developed an R package for easily creating pie and related charts called **tastypie**, that is available on CRAN. More info at the package website (<https://paolodalena.github.io/tastypie/>) or on my GitHub profile.