

SARA MARIOTTINI

DATA SCIENTIST | NLP ENGINEER | DATA ANALYST

Profile:

Entrepreneurial spirit, I am characterized by an enthusiastic and proactive attitude. I am constantly looking for new challenges in digital innovation. I am a sociologist specialized in Big Data processing and analysis. Thanks to the Master's degree in Data Science and my social, economic and marketing knowledge I can assume transversal roles such as Data Engineer , Data Scientist, Business Analyst in different "client oriented" sectors.



LEARNING BY DOING



LONG LIFE LEARNING

HARD SKILLS

PYTHON
SQL

SQLALCHEMY

POSTGRESQL

JAVASCRIPT: REACT
& TYPESCRIPT

R

TABLEAU

LANGUAGES



ITALIAN NATIVE



SPANISH FLUENT

ENGLISH FLUENT



RUSSIAN BASIC



WORK EXPERIENCE

July 2023 - present (part time)

Data Business Analyst Expert

Iconconsulting

ITALY: 00185 , Roma, P.za della Repubblica, 59

May - June 2023 (part time)

Data Scientist

Prisma S.r.l.

ITALY: 00142, Roma, Via Mario Bianchini 51

I developed an Emotional Text Mining algorithm in Python, the theoretical part of which was elaborated by Professor Alessandro Polli (Economic Statistics at University of Rome "Sapienza") and Francesca Greco R&D Manager at Prisma. Besides working out the algorithm, I also took care of the requirements document part and structured the architectural part of the future software that will have the algorithm integrated.

May 2022 - May 2023 (full time)

Data Architect and Visualization Developer

Ammagamma S.r.l.

ITALY: 41121 Modena, Via S.Orsola, 37

ISRAEL: 3309502 Haifa, 2 Pal-Yam street, Eshel building

Participation in technical roundtables with customers using the Design Thinking methodology to define software requirements. Writing the technical requirements document and prototyping the software with the use of Figma design tool. I have also applied organisational skills in project management: defining development time and organising task timing using Monday. Analysis of data provided by customers to design the best solution and to create the DB structure. I worked in both backend and frontend development (**Full-stack developer**)

Projects in which I participated as a Data Architect and Full Stack Developer:

Almagamma: Software design and development where the Ammagamma's human resources department can quantify employees' soft and hard skills.

Kerakoll - General Services: Development of software for managing employee fuel bills and rental of company cars.

Take Off - Commercial Strategy: Development a platform for the RPA and implementation of machine learning algorithms that predict purchases of products.

UNICEF - OPS! Your opinion beyond any prejudice and against stereotypes: Platform that has been used in schools that uses artificial intelligence to calculate the bias level of students and teachers. Other purpose of the platform is to educate on the positive use of Artificial Intelligence.

C.M.A SOLIERESE SOCIETA' AGRICOLA COOPERATIVA - Agriculture 4.0: Development of a user friendly platform using algorithms for planning work in the fields (cost calculation of: materials, machinery, workers, working time)

Technologies and programming languages used:

Backend: relational DB (PostgreSQL), SQL and SQL Alchemy, Python web framework (FastAPI).

Frontend: Javascript React and TypeScript.

Docker, GIT, Amazon Web Services.

Operating system: MacOS

July 2021 - May 2022 (full time)

Ph.D. Researcher

University of Granada - Department of Communication and Information

SPAIN: 18071 Granada, Colegio Máximo de Cartuja, Campus Universitario de Cartuja

InfluScience Project: "Socially influential scientists: a model to measure knowledge transfer in the digital society"

Ph.D. thesis: *"Big Data applied to Social Media: Policy Mentions and News Mentions as knowledge transfer indicators"*

Technologies and programming languages used:

Python; R; Excel; Gephi (software for the analysis and visualization of social networks)

Operating system: Microsoft Windows

October 2021 - January 2022

Professor (180 hours per year)

University of Granada - Department of Communication and Information

SPAIN: 18071 Granada, Colegio Máximo de Cartuja, Campus Universitario de Cartuja

- Analysis and Evaluation of Documentation Systems for Enterprises
- Business Unit Planning and Information Systems

March - July 2021 (full time)

Researcher, Data Curation

University of Granada - Department of Communication and Information

SPAIN: 18071 Granada, Colegio Máximo de Cartuja, Campus Universitario de Cartuja

Structuring the database for the project: [InfluScience](#).

Data collection and cleaning.

November 2019 - November 2020
(part-time)

Business and Communication Consultant

University of Granada - UGRemprendedora

SPAIN: 18012 Av. de Madrid, Granada.

I was responsible for the analysis of data in order to create informative and marketing campaigns for courses provided. Additionally, I undertook the role of a community manager, overseeing the management of Instagram, LinkedIn, and Facebook platforms. Furthermore, I was entrusted with the management of the institutional blog, where I published interviews that I conducted with prominent entrepreneurs operating in the business environment of Granada. In addition, I provided business model consulting services to university spin-offs and start-ups.

October 2018 - November 2019 (full time)

Founder: Mariottini - Slowfashion

Creation of an e-commerce where I sold ties with high quality fabrics (linen, silk, cotton). Social experiment: Trying to deconstruct the symbolic value of the tie and the figure of women in the haute couture.

EDUCATION

2023 - 2025

Master's Degree in Social Data Science

University of Milano-Bicocca

2023 - 2027

PhD: part-time student

University of Granada (ETSIIT)

Information retrieval, Machine Learning, NLP

2019 - 2021

Master's Degree in Data Science and Computer Engineering

University of Granada (ETSIIT)

Grade: **7.45/10**

Specialization in Artificial Intelligence, Machine Learning, NLP

2017 - 2020

Master's Degree in Applied Social Sciences - LM-88

University of Rome "Sapienza"

Grade: **110/110 cum laude**

2018 - 2019 (Erasmus+ Program)

University of Granada, Faculty of Political Science and Sociology - Demographic Analysis Techniques

2017 - 2018 (Erasmus+ Program)

University of Cádiz, Faculty of Psychology

Methodologies for social psychology for the analysis of interaction with/in group.

2013 - 2016

Degree in Sociology - L-40

University of Rome "Sapienza"

Grade: **102/110**

INTERNATIONAL EXPERIENCES

30/01/2021 – 05/02/2021, online

International Winter School in Entrepreneurship -

"iFEMPOWER Intensive Programme"

I won the award for Best Pitch during the "iFEMPOWER MULTIPLIER EVENT".

October 2019, London (UK)

Erasmus for Young Entrepreneurs - European Union in Collaboration with Andalucía Emprende

Transnational exchange of best practices applied to the European business world.

Participation in the "Start-Up Day 2019" - networking event at the British Library.

March 2019, Tirana (Albany)

Ministry of Foreign Affairs and International Cooperation - Chamber of Commerce of Rome, Formacamera

Export Management Training Programme: "ITALY-ALBANIA. NEW COMMERCIAL AND CULTURAL PERSPECTIVES IN EUROPE".

- How to create and maintain trade relations with non-European countries (applied to the case of the Republic of Albania).

- Market research (in the albanian economic sectors).

- meetings with the Italian embassy, with political exponents of the party led by Prime Minister Edi Rama, with entrepreneurs in the agricultural, textile, tourism and real estate sectors.

CONFERENCES

16 - 17 / 12 / 2021, UNIVERSITY OF GRANADA

• **SPEAKER AND LECTURER**

"THE 1ST INTERNATIONAL CONFERENCE ON HUMANITIES AND BIG DATA IN IBERO-AMERICAN 2021: METHODOLOGICAL ISSUES AND PRACTICAL APPLICATIONS"

8/07/2020, "Alhambra Venture" (Granada)

Talk: "**Comunicación en Público: ¡Tómatela con filosofía!**"

Link YouTube: <https://www.youtube.com/watch?v=nETFdmCoqp4>

5/11/2018, University of Rome "Sapienza", Faculty of Social Sciences and Economics (Rome)

Conference on the financial system and presentation of the book "Karl Marx and Post-Capitalism"

#YOSIGOPUBLICANDO. VIRTUAL TRAINING AND COUNSELING FOR RESEARCHERS AND GRADUATE STUDENTS OF THE UNIVERSITY OF GRANADA - VICE-RECTORATE FOR RESEARCH AND TRANSFER AND THE INTERNATIONAL GRADUATE SCHOOL OF THE UNIVERSITY OF GRANADA. DECEMBER 2021 - PRESENT.

- 3 DECEMBER 2021: "BRIEF INTRODUCTION TO DATA SCIENCE AND ITS TECHNIQUES", STUDENTS: 150. RATED 5/5.

21/05/2019, College "IES La Madraza" (Granada)

I gave a talk on "sustainability and human rights" during the round table organized by the college and the association Granada Visible.

PUBLICATIONS

Mariottini, Sara. Torres-Salinas, Daniel (2023).

Introduction to Big Data. Chapter 1 in

"Humanities and Big Data in Ibero-America.

Methodological issues and practical applications",

pp. 1 - 28. Eds. De Gruyter. Berlin.

Mariottini, Sara (2018). *Karl Marx e il Post-Capitalismo.*

Nuova Cultura, GNOSEIS. Roma.