Maddalena Bin, PhD

Data Scientist | Ph.D. in Physics

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Stockholm, Sweden

Curious, positive, and adaptable mindset with strong problem-solving and analytical skills. Proven ability to thrive under stress, develop data-driven solutions and effective team-player.

Skills

Technical skills

- Data analysis (Python, SQL, bash)
- Simulations and modelling
- Machine Learning (scikit-learn, tensorflow)
- Data Visualization
- Big Data

Soft skills

- Problem-solving
- Team-work
- Leadership
- Adaptability
- Communication
- Public speaking
- Data-driven decision making

Experience

2020/Sep – 2025/Feb
4 yrs 4 mos

Data Scientist and Researcher, Stockholm University, Sweden.

- **Developed data analysis pipelines** and implemented strategies for petabyte-sized datasets, enabling deeper insights and accelerating research
- **Led cross-functional teams** to execute high-impact experiments at X-ray large-scale facilities, advancing scientific discovery and fostering international collaboration
- **Strengthened scientific impact** through 16 conference presentations, 6 publications, and cross-institutional collaborations, while mentoring students and securing funding of 46k sek.

2014/May - 2020/Sep
6 yrs 5 mos

Municipal council member, Casale di Scodosia, Italy.

- Delegate for sport, youth activities and equal opportunities.
- Instrumental in fund application for the renovation and construction of new sport facilities along with a new public library for a total value of about €700.000.

2016/Sep - 2017/Jun
10 mos

Student tutor, University of Padova, Italy.

- Developed workshops focused on team-building, team-work, and time management for Physics students in their first year of their Bachelor's degree to help their transition to undergraduate studies.

Education

2025

Ph.D. in Physics, Stockholm University, Sweden.
- Member of the Ph.D. Council board and departmental committees.

2020

M.Sc. in Physics, University of Padova, Italy.
- Student representative and tutor.
- Exchange student: Stockholm University (2019); Heidelberg Universität (2018)

2017

B.Sc. in Physics, University of Padova, Italy.
- Student representative.

Additional achievements

2025
- **Machine Learning Specialization**, course given by DeepLearning.AI

2024
- **Best poster award**, Coherence conference, for impactful research.

2020 - 2023
- **Travel stipends,** for participating in three conferences during Ph.D. studies, 46k sek.

2010 - present
- **Field hockey athlete and trainer:** national team player, participated in European competitions.

2015 - 2022

2018 - 2019
- **Board member** of GGC Hockey Club Casale: sport promotion and event organization
- **Activist** of Amnesty International: Task Force Hate Speech (2018-19).