

Sara Bacconi



Languages

-  Italian
-  English

Academic appointments

2024 – Current **Ph.D. – University of Siena**
Ph.D. Full Scholarship in Information Engineering and Science

Education

2020 – 2024 **Master’s degree – University of Siena**

- **Master Science Program:** Applied Mathematics
- **Thesis title:** Soft estimation of Graph Edit Distance with Graph Neural Networks
- **Supervisor:** Monica Bianchini
- **Date of graduation:** 22/04/2024
- **Graduation grade:** 110/110 cum laude

2013 – 2020 **Bachelor’s degree – University of Siena**

- **Bachelor Science Program:** Mathematics
- **Thesis title:** Intuitionistic realizability and the De Jongh theorem
- **Supervisor:** Duccio Pianigiani
- **Date of graduation:** 17/04/2020
- **Graduation grade:** 110/110

2008 – 2013 **Classical high school diploma**

- **School’s name:** Enea Silvio Piccolomini
- **Final grade:** 86/100

Research interests

My research interests focus on machine learning, with particular interest in Graph Neural Networks and possible applications in bioinformatics.

Publications

Conference papers

NeuraGED: A GNN estimation for Graph–Edit Distance
Bacconi Sara, Costanti Filippo, Bianchini Monica, Pancino Niccolò, Bongini Pietro.
Published in the proceedings of the 28th International Conference on Knowledge – Based and Intelligent Information and Engineering Systems (KES 2024)

Conferences

04/12/2024 – **Learning on Graph Conference 2024 – Italy Meetup**
06/12/2024 Poster presentation "NeuraGED: A GNN estimation for Graph–Edit Distance" within Learning on Graph Conference – Italy meetup 2024, University of Siena, Siena, Italy.

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Educational activities

- 20/01/2025 – **Advanced Numerical Methods for Machine and Deep Learning**
24/01/2025 Attendance of the winter school in "Advanced Numerical Methods for Machine and Deep Learning", held on 20–24 January 2025, at Palazzo Manfredi, University of Ferrara, in Ferrara (Italy).

Working Experience and Volunteering

- 01/10/2020 – **Data Analyst – Monte dei Paschi di Siena**
16/07/2021 Working in the Data Governance department, where my principal activity consisted in querying database and extracting large amounts of data through the SQL language in order to produce reporting documents.
- 01/04/2017 – **Associationism/Volunteerism – Patronato ACLI**
01/12/2017 Secretariat and collaboration on the social scope project proposed by the company in the regional civil service.

Certifications

- 16/01/2024 **C1 English Reading and Writing Badge – University of Siena**
 - **English Level:** C1
 - **Tested abilities:** Reading and Writing
- 24/03/2023 **B2 English Badge – University of Siena**
 - **English Level:** B2
 - **Tested abilities:** Reading, Use of English
- 28/04/2011 **ECDL Certificate – AICA**
 - **Certificate number:** IT 1749311
 - **Tested abilities:** Concepts of Information Technology, Using the computer and Managing Files, Word processing, Spreadsheets, Database, Presentation, Information and Communication
- 23/07/2010 **PET-Preliminary English Test – University of Cambridge**
 - **English Level:** B1
 - **Tested abilities:** Speaking, Listening, Reading, Writing

Software skills

- **Operative Systems:** Windows
- **Programming :** Python, PyTorch, TensorFlow, SQL, Prolog, NetLogo
- **Admin/Office software:** $\LaTeX$, Microsoft Office (Excel, Word, PowerPoint)