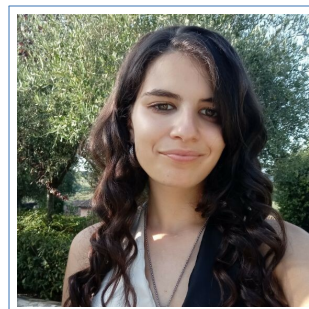# Donatella Genovese
Curriculum Vitae

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Personal information

First name	**Donatella**
Last name	**Genovese**
Date of birth	**18/04/1997**
Nationality	**Italian**

Education

2023–Ongoing   **National PhD in Artificial Intelligence**, Sapienza Università di Roma
- **Supervisor:** Prof. Simone Scardapane

2019–2022   **M.Sc. in Mathematics**, Sapienza University of Rome, Rome, Italy
- **Subject:** Neural networks
- **Thesis title:** "*Effective training strategies for Restricted Boltzmann Machines*"
- **Supervisors:** Prof. Elena Agliari, Dr. Alberto Fachechi
- **Final grade:** 110/110 with honors (25/01/2023)

2016–2019   **B.Sc. in Mathematics**, Sapienza University of Rome, Rome, Italy
- **Subject:** Mathematical analysis
- **Thesis title:** "*Non-convex optimization in the Calculus of variations*"
- **Supervisor:** Prof. Annalisa Malusa
- **Final grade:** 110/110 with honors (12/12/2019)

Feb 2019–Jun 2019   **Erasmus+**, Stockholm University, Stockholm, Sweden
- **Courses:** Complex analysis, Logic

Teaching Experiences

Apr 2025–Jun 2025   **Teaching Assistant**, Probability, Sapienza University of Rome, Department of Civil, Building and Environmental Engineering, Rome, Italy

Feb 2025–Apr 2025   **Teaching Assistant**, Statistical processes for Applied Sciences, Sapienza University of Rome, Department of Statistics, Rome, Italy

Mar 2024–Jun 2024   **Teaching Assistant**, Probability I, Sapienza University of Rome, Department of Mathematics, Rome, Italy

Sep 2022–Dec 2022   **Teaching Assistant**, Mathematical institutions I, Sapienza University of Rome, Department of Chemistry, Rome, Italy

Mar 2022–Jun 2022	**Teaching Assistant**, Mathematical institutions II, Sapienza University of Rome, Department of Chemistry, Italy

Working Experiences

dic 2021–dic 2022	**Content creator**, Creation of multimedia educational materials for the OF@ platform, Sapienza University of Rome
Oct 2021–Jan 2022	**Junior Data Scientist**, DEAS s.p.A., Rome, Italy
Sep 2020–Oct 2021	**IT laboratory assistant**, Sapienza University of Rome, Rome, Italy

Service

2024-ongoing	**Phd and Research Fellow representative**, Academic Senate, Sapienza University of Rome, Rome
2022-2023	**Student representative**, Mathematical, Physical and Natural Sciences faculty council, Sapienza University of Rome, Rome
2020-2022	**Student representative**, Mathematics department council, Sapienza University of Rome, Rome

Activities

2023	**BrAIns**, *Co-Organiser*, Sapienza University of Rome, Rome Seminars on artificial intelligence and neurobiology
Since 2022	**Member of BrainJuice** Groups of Master and PhD students with the aim of creating a space where people could meet and discuss topics about biological and artificial intelligence

Skills

- **Scientific Software**
  Matlab
  LaTeX
- **Programming languages**
  C/C++
  Python
  R
- **Python libraries**
  NumPy
  Pandas
  TensorFlow
  PyTorch
  Sklearn

Languages

- **Italian:** Mother tongue
- **English:** C1
  PTE: 78/90 (Reading: 84, Listening: 68, Speaking: 79, Writing: 85)

Honors & Awards

○ Albo Nazionale delle Eccellenze, National register of high-school graduates with 100 cum laude, certified by the National Institute for Documentation, Innovation and Educational Research (INDIRE), and the Minister of Education, Universities and Research (MIUR).

Publications

○ **Mixture-of-Experts Graph Transformers for Interpretable Particle Collision Detection**, D. Genovese, A. Sgroi, A. Devoto, S. Valentine, L. Wood, C. Sebastiani, S. Giagu, M. D'Onofrio, S. Scardapane