

# Lorenzo Serina

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Date of birth: 25/06/1997 | Nationality: Italian | Gender: Male



## WORK EXPERIENCE

12/2025 – 05/2026

### Research Fellow (Upcoming)

*University of Brescia, Italy*

- Project: SERICS, SOS-AI (Science and engineering Of Security of AI).
- Focus: Deep Learning and Automated Planning, specifically on Goal Recognition tasks.

05/2025 – 11/2025

### Visiting Researcher

*RWTH Aachen University, Germany*

- Research activity at the Department of Machine Learning and Reasoning.
- Focus: Deceptive Planning and Goal Recognition Robustness.

01/2024 – Present

### R&D

*SIMILAR (Start-up), Brescia, Italy*

- Leading Research and Development for solutions based on NLP and Computer Vision with LLMs and VLMs.
- Managing technical direction for innovative start-up projects.

11/2024 – Present

### Private Instructor

*KINETIKON, Turin, Italy*

- Delivering corporate training on Artificial Intelligence and Programming.
- Courses: ChatGPT & Business Automation, Intermediate Java, AI Master, AI Theory to Practice.

09/2023 – 09/2025

### Teaching Assistant

*University of Brescia, Italy*

- Supported 3 editions of the "Software Development Fundamentals" course (90 hours total).

12/2022 – Present

### PhD Student

*University of Brescia, Italy*

- Research topics: Artificial Intelligence, Machine Learning, Deep Learning.
- Application of state-of-the-art Deep Learning techniques to Goal Recognition (Automated Planning).
- Thesis: "Towards Efficient and Robust Goal Recognition through Deep Learning approaches."

05/2022 – 10/2022

### Research Fellow

*University of Brescia, Italy*

- Role: Assistant Researcher in NLP for the project "Next Generation UPP".

12/2021 – 5/2022

### Software Developer

*BBS, Paderno Franciacorta, Italy*

- Maintenance of a virtual assistant for Rai Way (National broadcasting infrastructure).
- Developed a prototype assistant for urban mobility management (smart bus stops).

## EDUCATION AND TRAINING

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09/2019 – 03/2022	<b>Master of Science in Computer Engineering</b> <i>University of Brescia, Italy</i> <b>Final Grade:</b> 109/110 <b>Thesis:</b> Design and development of a virtual conversational agent (chatbot) based on AI and Deep Learning for telecom customer support.
09/2016 – 03/2020	<b>Bachelor of Science in Computer Engineering</b> <i>University of Brescia, Italy</i> <b>Final Grade:</b> 95/110
2022 – 2024	<b>Summer Schools</b> <i>Various Locations</i>  <ul style="list-style-type: none"><li>• <b>OxfordML (2024)</b>: Oxford University, UK.</li><li>• <b>AI-DLDA (2023)</b>: University of Udine, Italy.</li><li>• <b>Deep Learn (2022)</b>: University of Las Palmas, Spain.</li></ul>

## PERSONAL SKILLS

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<b>Mother Tongue</b>	Italian
<b>Other Languages</b>	<b>English:</b> C1 (Listening, Reading), B2 (Speaking, Writing)
<b>Digital Skills</b>	Machine Learning, Natural Language Processing, Automated Planning, Computer Vision, Python, Java

## PUBLICATIONS

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**2025 | Towards Efficient Online Goal Recognition through Deep Learning.**

L. Serina et al. **AAMAS '25**: Proceedings of the 24th International Conference on Autonomous Agents and Multiagent Systems.

**2025 | Regularised Loss Function for Goal Recognition as a Deep Learning Task.**

M. Olivato, L. Serina et al. International Conference on Artificial Neural Networks (Springer).

**2025 | Deep Learning approaches to Goal Recognition.** (Doctoral Consortium)

L. Serina. **AAMAS '25**: Proceedings of the 24th International Conference on Autonomous Agents and Multiagent Systems.

**2023 | Synonyms, Antonyms and Factual Knowledge in BERT Heads.**

L. Serina et al. **Future Internet 2023**, 15(7).

**2022 | A Preliminary Study on BERT applied to Automated Planning.**

L. Serina et al. 10TH ITALIAN WORKSHOP ON PLANNING AND SCHEDULING, AlxIA.

## CONFERENCES & SEMINARS

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**AAMAS 2025 (Detroit)**: Main Track paper & Doctoral Consortium presentation.

**AlxIA 2024 (Bolzano)**: Doctoral Consortium presentation.

**RWTH Aachen (2025)**: Seminars on Deep Learning for Goal Recognition and Deceptive Planning.

## PROJECTS

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**SERICS (2024-Present)**: Research Assistant in Spoke 3 "Attacks and Defences" (PNRR/NextGenerationEU).

**Next Generation UPP (2022)**: Research Assistant for Justice System efficiency improvement.