

Giovanni Varricchione

Personal info

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Current Position

Universiteit Utrecht

Mar 2021 - Feb 2026

PhD in Safe and Efficient Reinforcement Learning

- Supervised by Prof. Dr. Mehdi Dastani and Dr. Brian Logan
- Working on safe and efficient reinforcement learning by exploiting logic and formal methods
- Various teaching duties, including lecturing and student supervision

Education

Universiteit van Amsterdam

Sep 2019 - May 2021

MSc in Logic (cum laude)

- Thesis: Complexity of Locally Fair Allocations on Graphs
- GPA: 8.97/10, thesis grade: 9/10
- Focus on computability, reasoning, computational social choice and game theory

Università degli Studi di Roma “La Sapienza”

Sep 2018 - Aug 2019

MSc in Computer Science (transferred)

- Classes completed: Models of Computation, Machine Learning, Mathematical Logic for Computer Science, Biometric Systems, Natural Language Processing

Università degli Studi di Roma “La Sapienza”

Sep 2015 - Oct 2018

BSc in Computer Science (cum laude)

- Thesis: Automatic Versions of Combinatorics Theorems
- Final grade: 110/110

Selected publications

- [1] GV, Natasha Alechina, Mehdi Dastani, Giuseppe De Giacomo, Brian Logan, and Giuseppe Perelli. Pure-past action masking. In *Proceedings of the 38th AAAI Conference on Artificial Intelligence (AAAI 2024)*; Safe, Robust and Responsible AI track
- [2] GV, Natasha Alechina, Mehdi Dastani, and Brian Logan. Maximally permissive reward machines. In *Proceedings of the 27th European Conference on Artificial Intelligence (ECAI 2024)*
- [3] GV, Natasha Alechina, Mehdi Dastani, and Brian Logan. Synthesising reward machines for cooperative multi-agent reinforcement learning. In *Proceedings of the 20th European Conference on Multi-Agent Systems (EUMAS 2023)*
- [4] Luca Barbaro, GV, Marco Montali, and Claudio Di Ciccio. From sound workflow nets to LTLf declarative specifications by casting three spells. In *Proceedings of the BPM Forum at BPM 2025 (to appear)*

Academic activities

- Talk at the Research Seminar in Logic, Gothenburg University**

Invited to give a talk at the Research Seminar in Logic at Gothenburg University over my paper “Frame Definability in Conditional Logic” published at AiML 2024.

May 2025
- S4S Café - Sustainability for AI**

Co-organized a seminar on AI and sustainability, bringing together researchers from different fields to discuss topics on sustainability in AI.

Apr 2025
- VvL PhD day 2024**

Organized the 2024 edition of the VvL PhD day.

Jun 2024
- VvL Essentials**

Organized a series of seminars on various research topics from researchers from several Dutch universities.

2023-2024
- TAILOR Connectivity Fund**

Received funding to visit a research group in Rome. [1] was a result of this visit.

Jul 2022

Teaching experience

Logics for Safe AI	MSc AI	Co-lecturer	23/24-24/25
Logica voor Informatica	BSc Informatica	Tutor	22/23-24/25
Informatica Introductieproject	BSc Informatica	Tutor	21/22-24/25

Aside from courses, I have supervised several (10+) student theses for the BSc AI and a student thesis for the MSc AI at Utrecht University.

Skills and activities

Programming languages	Python	C++	Java
ML frameworks	Ray RLlib	Ray Tune	Stable Baselines PyTorch
Development tools	GitHub	Jupyter Notebook	PyCharm
Languages	Italian (native)	English (C1)	Dutch (A2)

- Voluntary Work**

Computer Science instructor at an organization for retired people.

2017-2018
- Driving License**

I have a class B European driving license.