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 - Apr 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 *May 2025*
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.

S4S Café - Sustainability for AI *Apr 2025*
Organized a seminar on AI and sustainability, bringing together researchers from different fields to discuss topics on sustainability in AI.

VvL PhD day 2024 *Jun 2024*
Organized the 2024 edition of the VvL PhD day.

VvL Essentials *2023-2024*
Organized a series of seminars on various research topics from researchers from several Dutch universities.

TAILOR Connectivity Fund *Jul 2022*
Received funding to visit a research group in Rome. [1] was a result of this visit.

Teaching experience

Course name	Degree	Role	Academic years
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.

Personal skills and activities

Languages	Italian (native)	English (C1)	Dutch (A2)	
Programming languages	Python	C++	Java	
ML frameworks	Ray RLlib	Ray Tune	Stable Baselines	Keras

Voluntary Work *2017-2018*
Computer Science instructor at an organization for retired people.

Driving License
I have a class B European driving license.