

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 (accepted, to be published)*

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.

Hobbies

I train in the gym and practice weightlifting. At home, I enjoy baking and trying out new recipes.

Driving License

I have a class B European driving license.