Giovanni Varricchione

Personal info

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Education

Universiteit Utrecht

March 2021 - February 2026 (expected end date)

PhD in Formal Modelling of Intelligent Agents and Multi-Agent Systems

- Intelligent Systems Group
- Supervised by Prof. Dr. Mehdi Dastani and Dr. Brian Logan
- Working on safe and efficient Reinforcement Learning by exploiting Logic and Formal Methods

Universiteit van Amsterdam

September 2019 - April 2021

MSc in Logic

- Thesis: Complexity of Locally Fair Allocations on Graphs
- GPA: 8.97/10 (cum laude)
- Focus on computability, reasoning, computational social choice and game theory.

Università degli Studi di Roma "La Sapienza"

September 2018 - August 2019

MSc in Computer Science (not completed)

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

Università degli Studi di Roma "La Sapienza"

September 2015 - October 2018

BSc in Computer Science

- Thesis title: Automatic Versions of Combinatorics Theorems
- Grade: 110/110 (cum laude)

(Selected) Publications

From Sound Workflow Nets to LTLf Declarative Specifications by Casting Three Spells

Luca Barbaro, GV, Marco Montali, Claudio Di Ciccio. To appear in *Proceedings of the BPM Forum* (co-located with BPM 2025).

Maximally Permissive Reward Machines

GV, Natasha Alechina, Mehdi Dastani, and Brian Logan. In *Proceedings of the 27th European Conference on Artificial Intelligence (ECAI 2024)*.

Pure-Past Action Masking

GV, Natasha Alechina, Mehdi Dastani, Giuseppe De Giacomo, Brian Logan, and Giuseppe Perelli. In Proceedings of the 38th AAAI Conference on Artificial Intelligence (AAAI 2024); Safe, Robust and Responsible AI track.

Synthesising Reward Machines for Cooperative Multi-Agent Reinforcement Learning

GV, Natasha Alechina, Mehdi Dastani, and Brian Logan. In Proceedings of the 20th European Conference on Multi-Agent Systems (EUMAS 2023).

Grants and Scholarships

ASL travel support

2024

I was awarded a scholarship to attend the Logic Colloquium in June 2024. The scholarship covers the registration and banquet fees (4170 SEK).

TAILOR Connectivity Fund

2022

The funding was used to visit the group of professor Giuseppe De Giacomo in Rome, in July 2022.

Organisational Experience and Seminars

Invited Talk at the Research Seminar in Logic, Gothenburg University 16th May 2025 I was invited to give a talk at the Research Seminar in Logic at Gothenburg University. The talk was over one of my papers, "Frame Definability in Conditional Logic", published at AiML 2024.

S4S Café - Sustainability for AI

3rd April 2025

I have organized and given a talk at a seminar on AI and sustainability, bringing together researchers from different fields to discuss how to make AI more sustainable and how AI can help us tackling sustainability challenges.

VvL PhD day 2024

21st June 2024

I'm part of the organising committee for the 2024 edition of the VvL PhD day.

VvL Essentials 2023-2024

I was one of the organisers of the VvL Essentials seminars. In the seminars, we have invited researchers from various Dutch universities to give high-level lectures on their topics of research that are related to logic and its applications.

Skills

Italian (native) Languages

> English (C1) Dutch (A2)

Programming

C++, Java, Python

Languages

Keras, Ray RLlib, Ray Tune, Stable Baselines

ML Frameworks

[...]

Personal skills