

# Giovanni Varricchione

## Personal info

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**Address:** Buys Ballotgebouw 5.24, Princetonplein 5, Utrecht, Netherlands  
**Email:** g.varricchione@uu.nl  
**Website:** giovannivarr.github.io

## Education

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**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
- My research focuses on Logic-based approaches to (Safe) Reinforcement Learning

**Universiteit van Amsterdam** *September 2019 - April 2021*  
*MSc in Logic*

- Thesis: Complexity of Locally Fair Allocations on Graphs
- GPA: 8.97/10 (*cum laude*)

**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*)

## Publications

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**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)*.

### 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*.

## Grants and Scholarships

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### TAILOR Connectivity Fund

2022

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

### 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).

## Organisational Experience

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### VvL Essentials

2023-

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

### VvL PhD day

21st June 2024

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

## Personal skills

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|------------------------------|----------------------|
| <i>Languages</i>             | Italian (native)     |
|                              | English (fluent)     |
|                              | Dutch (beginner)     |
| <i>Programming Languages</i> | C, C++, Java, Python |