# Raphaël Avalos

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Final year PhD candidate in Reinforcement Learning.

#### | Education

PhD, Vrije Universiteit Brussel
PhD Candidate in (Multi-Agent) Reinforcement Learning under the supervision of Prof. Ann Nowé and Dr. Diederik M. Roijers.

MSc Applied Mathematics for AI, ENS Paris-Saclay MVA, Highest Honor

The MVA Masters program offers advanced mathematical and experimental training in analysis, geometry, and probability, to prepare students for a research career in artificial intelligence.

**Engineer in Computer and Data Science**, *Telecom Paristech*, *GPA 3.96*Telecom ParisTech is one of the top French public institutions of higher education and research (Grandes Ecoles) of engineering in France.

Two years of intensive study in Mathematics and Physics to prepare the national engineering school admission competitive exam.

#### | Awards

2014-2016 <sup>†</sup>

2016-2019

2023 Best Paper Award, Benelux Conference on Artificial Intelligence
2020 Fundamental Research Fellowship, Research Foundation – Flanders (FWO)
PhD fellowship for 4 years.

#### | Selected Publications

T Full list: https://scholar.google.com/citations?user=nWm5tucAAAAJ

Preparatory Classes, Lycee Stanislas, GPA 3.91

ICLR 2024 The Wasserstein Believer: Learning Belief Updates for Partially Observable Environments through Reliable Latent Space Models

**Raphaël Avalos**, Florent Delgrange, Ann Nowé, Guillermo A. Pérez, Diederik M. Roijers *International Conference on Learning Representations* 

RLC 2024 Online Planning in POMDPs with State-Requests

Raphaël Avalos, Eugenio Bargiacchi, Ann Nowé, Diederik M. Roijers, Frans A Oliehoek Reinforcement Learning Conference

TMLR 2023 Local Advantage Networks for Cooperative Multi-Agent Reinforcement Learning Raphaël Avalos, Mathieu Reymond, Ann Nowé, Diederik M. Roijers

\*Transaction in Machine Learning Research\*

## | Experience

Research Intern, Cohere
4 months research internship working on Large Language Models.

Program Chair, Adaptive Learning Agents Workshop at AAMAS 2024

Local Chair, European Workshop on Reinforcement Learning

Research Visit, TU Delft
4 months research visit under the supervision of Prof. F. Oliehoek working on planning in POMDPs.

Research Internship, Vrije Universiteit Brussel
4 months research internship under the supervision of Prof. A. Nowé working on Multi-Agent RL.

Research Internship, INRIA - SequeL Team

6 months research internship under the supervision of Prof. P. Preux and Dr. F. Strub working on RL.

### Skills

Languages French native, Spanish bilingual, English fluent - TOFEL iBT 103/120.

Computer Linux, Python, C++, Bash, LATEX.

ML Jax, Tensorflow, Pytorch.

Hobbies Cooking, Travelling, Hiking, Diving, and recently Kite-Surfing.