



# Lars C.P.M. Quaedvlieg

Graduate Research Assistant

## 👤 Profile

For more detailed information about my research and personal projects, please visit the website on the side of my resume

## 🎓 Education

### MSc Data Science, École Polytechnique Fédérale de Lausanne (EPFL), Switzerland

September 2022 — July 2024

*Current courses:* Statistics for Data Science; Mathematics of Data: From Theory to Computation; Machine Learning; Intelligent Agents

### BSc Data Science and Artificial Intelligence, Maastricht University, The Netherlands

September 2019 — July 2022

- Graduated summa cum laude, 9.50/10 GPA
- Ranked 1st out of 104 students within a similar cohort
- Received the best bachelor's thesis award with a grade of 9.5/10 for the thesis "Multi-Agent Reinforcement Learning with Graph Neural Networks for Online Multi-Hoist Scheduling"
- Audited master-level courses surrounding Artificial Intelligence

### BSc Information Communication Technology, Zuyd University of Applied Sciences, The Netherlands

September 2018 — July 2019

*Transferred to an alternative degree to pursue a more mathematical- and research-oriented education*

- Cum laude propaedeutic phase, 8.60/10 GPA
- Ranked 1st out of 187 students within a similar cohort

## 💼 Experience

### Research Assistant at EPFL Artificial Intelligence Laboratory

August 2022 — Present

Student research (unofficial, ~4 hours per week) in duplication-differentiation-based hierarchical reinforcement learning (Python)

### Part-Time AI Research Intern at Aucos AG, Germany

February 2021 — August 2022

*Competences:* Python, computer vision, planning, graph representational learning, (multi-agent) reinforcement learning

- Developed a pipeline for multi-camera multi-object tracking through production lines
- Designed and created software for generating optimal production plant schematics
- Devised an approach for optimizing the throughput of production lines

## Details

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## Important Links

[Personal Website](#)

[LinkedIn](#)

[GitHub](#)

[Coursera Specializations](#)

## Programming Languages

Python

Java

SQL

MATLAB, R

C, JavaScript, PHP

## Packages

PyTorch, TensorFlow,  
Scikit-learn, NumPy, Gym

## Languages

English (C2)

Dutch (C2)

German (B1)

French (A2)



## ★ Awards and Honours

### Master's Excellence Fellowship, EPFL

September 2022

Two-year fellowship valued at 40,000 CHF, awarded to ~3% of admitted master students based on outstanding academic records

### Bachelor Thesis Award 2023, Maastricht University

July 2022

University-wide award for the best bachelor's thesis research among all other students in the program

### Honours Student, Maastricht University

February 2021 — August 2022

Participation in the KE@Work honours programme, a part-time research internship in industry

## ✎ Extracurricular Activities

### Public Relationship Manager at Google Developer Student Club, Lausanne

September 2022 — Present

Tutoring and hosting group exam-preparation sessions for undergraduate students in computer science- and mathematics-related topics

### Student Representative at Department of Advanced Computing Sciences

September 2020 — September 2022

One of two student representatives of 800, responsible for raising students' issues, ensuring program quality by renewing study material, extending the curriculum by adding new courses, and looking into internal regulations of the bachelor program

### Board Member at MSV Incognito

July 2020 — July 2022

Treasurer, secretary, and community manager at a department-wide study association comprised of 800 members. Organized educational and social events, and launched a series of online sessions with academic and industry researchers

## 📖 References

### Prof. Dr. Karl Tuyls from Google DeepMind

[karltuyls@deepmind.com](mailto:karltuyls@deepmind.com) Game Theory and Multi-Agent Teams Lead

### Prof. Dr. Gerhard B. Weiss from Maastricht University

[gerhard.weiss@maastrichtuniversity.nl](mailto:gerhard.weiss@maastrichtuniversity.nl) Full Professor

### Prof. Dr. Frank Thuijsman from Maastricht University

[f.thuijsman@maastrichtuniversity.nl](mailto:f.thuijsman@maastrichtuniversity.nl) Full Professor, Honours Coordinator

### Dr. Rico Möckel from Maastricht University

[rico.mockel@maastrichtuniversity.nl](mailto:rico.mockel@maastrichtuniversity.nl) Associate Professor, Research Director