Lars QUAEDVLIEG

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Research	Foundation Models for Decision-Making, Reinforcement Learning, Multi-Task Learning, Graph Neural Networks

Education

Sep 2022 – Present	**École Polytechnique Fédérale de Lausanne** Lausanne, Switzerland	MSc in Data Science GPA: 5.7/6

- Google Developer Student Club PR Manager: organized 7 total events with 212 total attendees, and 163 community members.

Sep 2019 – Jul 2022	**Maastricht University** Maastricht, The Netherlands	BSc in Data Science and AI GPA: 9.5/10	Rank 1/104

- Graduated with a *summa cum laude distinction* with a 9.5/10 for the thesis.
- Student Representative: one of two student representatives among 800 peers, addressing student concerns, and development of the programme curriculum.
- MSV Incognito Board Member: held three board positions for an 800-member study association, orchestrating educational and social events for students.

Work Experience

Jun 2023 – Aug 2023	**InstaDeep** *Research Intern*	Paris, France

- Skills: Transformers, Auto-encoders, HDF5, Google Cloud Platform.
- Pre-training large transformers on a 3.07 TB offline reinforcement learning dataset, with the goal of easily fine-tuning agents for downstream tasks.

Nov 2022 – Present	**Laboratory for Information and Inference Systems** *Research Assistant*	Lausanne, Switzerland

- Skills: Combinatorial Optimization, Scheduling.
- Co-authored a paper about self-supervised learning for combinatorial optimization.
- Researching the Nurse Rostering Problem with machine learning techniques.

Jun 2018 – Jun 2020	**Aucos AG** *Research Intern*	Aachen, Germany

- Skills: Multi-Object Tracking, Graph Neural Networks, Reinforcement Learning.
- Computer Vision: Developed a pipeline for multi-camera multi-object tracking.
- Optimization: Devised an approach for optimizing the throughput of production lines, resulting in a $\pm 10\%$ increase of throughput within a simulated environment.

Awards & Honours

Jul 2023	**CS-503 Visual Intelligence Best Project Award** Best project out of 14 teams, with topics from embodied agents to computer vision.
Sep 2022	**Master's Excellence Fellowship, EPFL** Two-year fellowship awarded to ~3% of EPFL master students based on outstanding academic records.
Nov 2022	**Best Bachelor's Thesis Award, Maastricht University** University-wide award for the best bachelor's thesis research among all other students in the cohort.

Publications

Languages	English (C2), Dutch (C2), German (B1), French (A2)
Programming	Python, Java, Flutter, SQL, MATLAB, R, C, C++, JavaScript, PHP
Tools	Jax, Haiku, Optax, Flax, PyTorch, Hydra, Neptune, Google Cloud Platform, HDF5