

Max Weltevrede



 mweltevrede.github.io

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 MWeltevrede

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Employment History

- 2022 –  **Ph.D. Researcher** Sequential Decision Making, Delft University of Technology
Supervisors: J. W. Böhmer and M. T. J. Spaan
Working on generalisation in reinforcement learning. In particular how exploration affects generalisation to new tasks, and how generalisation can be improved in the offline setting.
- 2021  **Decision Intelligence Engineer** White Space Solutions
Worked on designing and building machine learning solutions for real-world planning and scheduling problems.

Education

- 2018 – 2020  **M.Sc. Computer Science** Delft University of Technology.
Thesis title: *Planning for Money Laundering Investigations.*
- 2014 – 2016  **M.Sc. Theoretical Physics** University of Amsterdam.
Thesis title: *Two Dimensional Gravity and Sine-Gordon Theories.*
- 2011 – 2014  **B.Sc. Physics** University of Groningen.
 **Honours College Bachelor** University of Groningen.

Research Publications

- **Training on more Reachable Tasks for Generalisation in Reinforcement Learning**
Max Weltevrede, Caroline Horsch, Matthijs T.J. Spaan, and Wendelin Böhmer
Preprint. Under Review, Oct 2024
- **Explore-Go: Leveraging Exploration for Generalisation in Deep Reinforcement Learning**
Max Weltevrede, Felix Kaubek, Matthijs T.J. Spaan, and Wendelin Böhmer
Seventeenth European Workshop on Reinforcement Learning, Sep 2024
- **The Role of Diverse Replay for Generalisation in Reinforcement Learning**
Max Weltevrede, Matthijs T.J. Spaan, and Wendelin Böhmer
Sixteenth European Workshop on Reinforcement Learning, Aug 2023

Teaching

- 2023-2024 ■ **Master Thesis**, Felix Kaubek
Investigation into the Effect of Replay Buffer Diversity on Generalizability
- **Intelligent Decision Making Project**, TU Delft, CS4210-B
Supervised a group of five master students of a research project.
- **Research Project**, TU Delft, CSE3000
Supervised a group of five bachelor students of a research project.
- **Deep Reinforcement Learning**, TU Delft, CS4400
Supervised lab sessions and helped grading homework.
- 2022-2023 ■ **Deep Reinforcement Learning**, TU Delft, CS4400

Skills

- Languages ■ Strong reading, writing and speaking competencies for English and Dutch.
- Coding ■ Python, PyTorch, Git, L^AT_EX, C, C++, Java
- Misc. ■ Academic research, teaching

References

Available on Request