Thor Olesen

ML Engineer @ The Org

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Research Interests

Machine Learning, Computer Vision, Robotics, Deep Reinforcement Learning.

Education

MSc, Computer Science, *IT University of Copenhagen*, Denmark. **2018–2020**
Specialization in Machine Learning with courses in Advanced Machine Learning, Linear Algebra and Probability. Study abroad at UC Berkeley to study AI, Statistics, and Data Science.

BSc, Computer Science, *University of Copenhagen*, Denmark. **2017–2018**
Relevant Coursework: Computer Systems, Calculus, Programming Language Design, Compilers

BSc Software Development, *IT University of Copenhagen*, Denmark. **2014–2017**
Relevant Coursework: Discrete Mathematics, Algorithms and Data Structures, Distributed Systems, Databases, Software Engineering, Functional Programming

Publications

Thor Olesen, Dennis Nguyen, Rasmus Berg Palm, Sebastian Risi, **2021**
Evolutionary Planning In Latent Space, In *Proceedings of the 24th International Conference on the Applications of Evolutionary Computation, p.. 522-536.*

Research Experience

Graduate Research Assistant, *Robotics, Evolution & Art Lab (REAL).* **Fall 2020**
Research assistant under Sebastian Risi focused on deep (model-based) reinforcement learning.

Advisor: **Sebastian Risi**, *Associate Professor, Department of Computer Science*, ITU (*Personal Web-page*)

Master's Thesis. **Spring 2020**
Researched how to learn sample-efficient world models iteratively that enable planning (deep model-based RL) with results superior to popular model-free methods (e.g. A3C, DQN).

Advisor: **Sebastian Risi**, *Associate Professor, Department of Computer Science*, ITU (*Personal Web-page*)

Advanced Machine Learning Research Project. **Fall 2019**
Replicated *Human-level control through deep RL* (DeepMind, 2015) showing how to learn a policy from pixels using a model-free DQN with experience replay, and a target Q-network.

Advisor: **Sami Brandt**, *Associate Professor, Department of Computer Science*, ITU (*Google Scholar*)

Teaching

Advanced Machine Learning, *Assistant Lecturer*, ITU. **Fall, 2020**

Linear Algebra and Probability, *Teaching Assistant*, ITU. **Spring 2020**

Artificial Intelligence, *Teaching Assistant*, ITU. **Spring 2019**

Algorithm Design, *Teaching Assistant*, ITU. **Fall 2019**