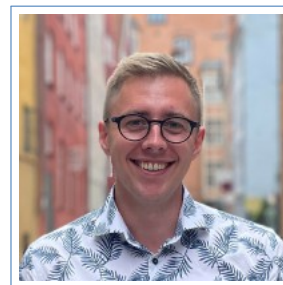


# Thor Olesen

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.** **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**