Oriol Corcoll

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Interests: deep learning, reinforcement learning, causality, neuroscience.

Employment

University of Tartu - Researcher **Sept. 2020**

- I study how artificial agents can make better decisions by understanding causal relations. I firmly believe there is a significant leap towards understanding intelligence at the intersection of reinforcement learning and causality. Building agents that see the world from a causal lens can enable principled drug discovery, informed interventions on gene regulatory networks, and better decision-making for clinicians. In particular, I study how RL agents can discover, learn and exploit causal relations present in the world in an unsupervised manner.

Amazon Alexa - Research engineer **June 2017 – June 2018**

- Built a highly-scalable multimedia curation pipeline.
- Led and implemented using deep learning the semantic-image cropping system for Alexa.
- Led and implemented the aesthetic quality system for Alexa.

Amazon Video - Software engineer **April 2015 – June 2017**

- Built a high-traffic and highly available price engine to provide discounts and offers to Amazon Video customers.

CashOnGo - Software engineer **Sept. 2014 – March 2015**

- Redesigned and implemented a scalable loan engine.

Aalto University - Researcher **June – Sept. 2014**

- Designed and implemented a prediction engine for DNA-based tile models in the Natural Computation research lab.

MediaPro - Software engineer **June – Sept. 2013**

- Built a football data analysis tool for FIFA clubs like FC Barcelona or Real Madrid.

eConcept Solutions - Software engineer **June 2007 – Sept. 2010**

- Solutions architect.

Education

PhD Computer science **Sept. 2018 – November 2022**
University of Tartu

MSc Data science **Sept. 2016 – June 2018**
Queen Mary University of London

BSc Computer science **Sept. 2010 – June 2014**
Polytechnic University of Catalonia

Awards and Scholarships

NVIDIA research grant **2019**

AWS research grant **2019**

Teaching

Neural Networks

- Lecture on Attention and Transformers
- Teacher assistant

Seminar on Computational Neuroscience

- Designed and organized the seminar

Student supervision

- Two master thesis
- Student mentoring