Peter Ebert

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Education

University of Copenhagen, Ph.D. Student
Aug 2022-, Copenhagen

Advisor: Serge Belongie

DTU, Msc. in Mathematical Modelling and Computing
Feb 2019- Jul 2021, Copenhagen
Major in Machine Learning, Advisor: Ole Winther, I co-authored an IEEE paper.

University of California, Berkeley, Msc exchange
Jan 2020- June 2020, Copenhagen
Research exchange, I co-authored a NeurIPS paper with Prof. Dawn Song.

DTU, Bcs. in Mathematics and Technology
Feb 2019- Jul 2021, Copenhagen
Major in Machine Learning

Publication

Assessing Neural Network Robustness via Adversarial Pivotal Tuning of Real Images
P.E Christensen, V. Snæbjarnarson, A. Dittadi, S. Belongie, S. Benaim, In submission for ICLR 2023

Searching for Structure in Unfalsifiable claims
P.E Christensen, F. Warburg , M. Jia, S. Belongie, 2022, HCOMP 2022, https://arxiv.org/abs/2209.00495

Volumetric Disentanglement for 3D scene manipulation
S. Benaim, F. Warburg *, P.E Christensen *, S. Belongie, 2022, In submission for ICLR 2023
https://arxiv.org/abs/2206.02776

Synthesize, Execute and Debug: Learning to Repair Neural Program Synthesis
K. Gupta, P.E Christensen, X Chen, D Song, Neural Information Processing Systems 2020,
https://arxiv.org/abs/2007.08095

A Deep Learning Approach to Short Term Blood Glucose Prediction on Continuous Glucose Monitoring Data
A. Mohebbi, A. Johansen, N. Hansen, P.E Christensen, M. Jensen, J. Tarp, H. Bengtsson, M. Mørup.
Engineering in Medicine and Biology Society (IEEE-EMBC 2020),
http://dx.doi.org/10.1109/EMBC44109.2020.9176695

Autoencoding unidirected molecular graphs with neural networks
J.J.W Olsen, P.E Christensen, M. H. Hansen, A.R. Johansen, 2019, https://arxiv.org/abs/2001.03517

Experience

University of Copenhagen, Research Assistant

Oct 2021-Aug 2022, Copenhagen

Under the supervision of Serge Belongie, I developed the first clustering algorithm for narrative discovery on social media, which can iteratively refine its embedding HCI. I used state-of-the-art transformer models post-process the data and to test the difficulty of the dataset. I also collaborated and coauthored a paper with PostDoc Sagie Benaim on a project on 3D scene representation.

Machine Learning Engineer / Corti.ai

August 2020 -August 2021, Copenhagen

I've been responsible for rewriting Corti's production code from Tensorflow 1 to Tensorflow 2. As such due I've been able to decrease the training time more than 30 X and the loading of data more than 7x.

Machine Learning Intern / Raffle.ai

June 2019- August 2019, Copenhagen

I reimplemented the SyntaxSQLNet cross-domain text-to-SQL parser in PyTorch and Python and improved its accuracy by 12%.

Student assistant / Technical University of Denmark

June 2019- August 2019, Copenhagen

I helped develop a platform for autonomous materials discovery of clean energy materials through creation of a common data-infrastructure: http://www.aimade.org/

Talks

(Invited talk) Introduction to Reinforcement Learning, Neural 2019

(Invited talk) Learning the language of molecules, Neural 2019

Awards, Service & Visa

Fintech Scholarship / Spar Nord foundation (2020)

Scholarship to study for 1 semester at UC Berkeley

PhD student Cafe administrator (2022-)

I orchestrate talks, workshops, hackathons and other social events for Ph.D. students working within Machine Learning at any Danish University

Reviewer ACL (2020)

Visa F1 for the USA (2019-2024)

Teaching

Vision and image processing, University of Copenhagen 2022

02456 Deep Learning , Technical University of Denmark 2021

02456 Deep Learning , Technical University of Denmark 2020

02456 Deep Learning , Technical University of Denmark 2019