Peter Ebert

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Education

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

Major in Natural Language Processing, 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, Berkeley

Research exchange, I co-authored a NeurIPS paper with Prof. Dawn Song.

DTU, Bcs. in Mathematics and Technology
Sep 2015- Jan 2019, Copenhagen

Major in Machine Learning

Publication

A Template Is All You Meme
L Bates, PE Christensen, P Nakov, I Gurevych, https://arxiv.org/abs/2311.06649

Prompt, Condition, and Generate: Classification of Unsupported claims with In-Context Learning
P.E Christensen, S. Yadav, S. Belongie, https://arxiv.org/abs/2309.10359

Assessing Neural Network Robustness via Adversarial Pivotal Tuning of Real Images
P.E Christensen, V. Snæbjarnarson, A. Dittadi, S. Belongie, S. Benaim, WACV 2024 (Oral, top 2%)
https://arxiv.org/abs/2211.09782, website: https://captaine.github.io/apt/

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

Volumetric Disentanglement for 3D scene manipulation
S. Benaim, F. Warburg *, P.E Christensen *, S. Belongie, WACV 2024,, https://arxiv.org/abs/2206.02776, website: https://sagiebenaim.github.io/volumetric-disentanglement/

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, https://arxiv.org/abs/2001.03517

Experience

Amazon, Applied Scientist Intern

Sep 2023-Dec 2023, Seattle

Working on Amazons filtering for products, improved a pipeline by 20 percentage points, leading to projected 100M$ Annual Revenue increase, work published in internal ACVC conference

University of Copenhagen, Research Assistant

Oct 2021-Aug 2022, Copenhagen

I developed a clustering algorithm for narrative discovery, the paper was accepted at HCOMP wip. I authored a paper on NeRFs published at WACV.

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 I've been able to decrease the training time by more than 30 X and the loading of data by 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

Jan 2019- August 2019, Copenhagen

I helped develop a platform for autonomous materials discovery of clean energy materials: 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

ELLIS Ph.D. Scholarship (2022-)

Part of the ELLIS Ph.D. Program with Prof. Serge Belongie as advisor and Prof. Iryna Gyrevych as co-advisor

Fintech Scholarship / Spar Nord foundation (2020)

Scholarship to study for 1 semester at UC Berkeley

Ph.D. 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 ARR (June, August 2023)

Teaching

Vision and image processing, University of Copenhagen 2022

02456 Deep Learning, Technical University of Denmark 2019-21