

Final-year PhD candidate in AI/ML, specializing in deep neural networks for computer vision and natural language processing. Proficient in advanced models such as ResNet, Vision Transformers, and large language models. Adept at developing innovative solutions and effectively communicating complex ideas through clear presentations and visualizations, proven by a track record of cutting-edge research published in prestigious AI/ML conferences (NeurIPS, ICML, ICLR). Committed to staying at the forefront of AI advancements and applying state-of-the-art techniques to solve challenging problems.

TECHNICAL SKILLS

Languages: Python, Javascript, Java, C/C++

Libraries: Jax/Flax, Pytorch, Tensorflow, Numpy, Scipy, Scikit-learn, Pandas, Matplotlib, Seaborn.

EDUCATION

Ph.D. in Artificial Intelligence and Machine Learning 10/2021 - 10/2025 (expected)
Supervisor: Prof. Samuel Kaski Aalto University, Finland
Advisor: Markus Heinonen, Ph.D.

M.Sc. (Tech) in Machine Learning, Data Science and Artificial Intelligence (Honors) 09/2019 - 06/2021
GPA: 4.93/5.0 Aalto University, Finland
Thesis: Scalable Bayesian neural networks

B.Eng. in Computer Science (Honors) 09/2014 - 06/2018
GPA: 9.09/10 HCMC University of Technology, VNU-HCM, Vietnam
Second place among overall graduates

PUBLICATIONS

Trung Trinh, Markus Heinonen, Luigi Acerbi and Samuel Kaski. *Improving robustness to corruptions with multiplicative weight perturbations*. NeurIPS 2024 (Spotlight). <https://arxiv.org/abs/2406.16540>.

Trung Trinh, Markus Heinonen, Luigi Acerbi and Samuel Kaski. *Input-gradient space particle inference for neural network ensembles*. ICLR 2024 (Spotlight, top 5%). Project website: <https://aaltopml.github.io/ForDE/>.

Trung Trinh, Markus Heinonen, Luigi Acerbi and Samuel Kaski. *Tackling covariate shift with node-based Bayesian neural networks*. ICML 2022 (Oral, top 2%). Project website: <https://aaltopml.github.io/node-BNN-covariate-shift/>.

WORK EXPERIENCE

Teaching Assistant Aalto University, Finland
Course: CS-E4890 - Deep Learning Spring 2021, 2022 and 2023

Teaching Assistant Aalto University, Finland
Course: CS-E4600 - Algorithmic Methods of Data Mining Autumn 2019

Machine Learning Engineer YouNet Media, Vietnam, 01/2018 - 07/2019

Proposing and implementing machine learning algorithms for the SocialHeat platform of YouNet.

- Building a recurrent neural network for sentiment analysis of social media comments with an accuracy of 89%.
- Building a Support Vector Machine classifier to filter out fake social influencer profiles on social media with F1-score of 0.86.
- Using Latent Dirichlet Allocation (LDA) to categorize social media influencers based on their posts.
- Using LDA to measure the interaction quality of a post of an influencer by checking the numbers of comments having the same topic as the post.