Programming skills

Python	Expert
C / C++	Proficient
Scala	Proficient
R	Proficient
Matlab	Proficient
Julia	Beginner

Abilities

- **Motivated** and **well-disciplined**
- **Quick** and **eager to learn** anything new!
- **Fluency** in both **written and spoken** English
- **Reliable** and **flexible team player**
- Strong **project management** skills

Languages

Finnish	Native
English	Professional proficiency
Swedish	Limited working proficiency
German	Elementary proficiency

Contact Information

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02 / 09 / 2022

Leevi Veneranta

MSc Machine Learning student

I am an aspiring computer scientist who is passionate about learning and self-development. As my motto goes: ***Every day is an opportunity to learn and improve myself.*** I am interested in machine learning, cloud computing and finance. I wish to continue developing my skills further and apply them to create significant business value.

Experience

Research Assistant — 1.5.2022 - 31.8.2022

Aalto University, Department of Computer Science

Development of bayesian neural networks (BNNs) and introduction of constraints on its parameters in order to tackle the unidentifiability problem. Work included familiarizing myself with the BNN literature, development and testing of BNNs using various constraints in both variational inference and HMC setting.

Teaching Assistant — 1.10.2020 - 30.4.2022

Aalto University

Part-time teaching assistant. I have taught on the following courses:

- Data Structures and Algorithms
- Statistical Inference
- First Course in Probability and Statistics
- Differential and Integral Calculus 2

Research Assistant — 1.5.2021 - 12.9.2021

Aalto University, Department of Computer Science

Development of 3D astronomical data visualization tools using Pyvista and Python. This includes generating movie visualizations of both scalar and vector data, e.g. by using streamline or vector visualizations in different coordinate systems.

Research Assistant — 1.6.2020 - 31.8.2020

Aalto University, Department of Applied Physics

My primary task was to reimplement an automation framework for scanning tunneling microscopes to support a different Python API. Work included reimplementing the software to support a new API, training ML models using a supercomputing cluster, applying the software in practice and evaluating its performance.

Skills

- **ML:** PyTorch, Tensorflow, scikit-learn, JAX, Pyro, numpyro
- **Visualization:** matplotlib, seaborn, Plotly, pyvista
- **Databases:** SQL, PostgreSQL
- **Other:** Linux, Bash scripting, Git, SLURM, LaTeX, OpenMP, Cuda

Education

MSc in Computer Science — 9.2021 - 4.2023

Aalto University

- Major: Machine Learning, Data Science & Artificial Intelligence
- Completed 80 / 120 ECTS with 4.63 GPA, only MSc thesis remaining
- Total of 298 ECTS in 3.5 years with 4.57 GPA
- Estimated graduation: Spring 2023

BSc in Engineering Physics — 1.2019 - 12.2021

Aalto University

- GPA: 4.82
- Minors: Computer Science & Mathematics
- BSc Thesis: "*Automation of Scanning Tunneling Microscopy using Neural Networks*" (Pass with Distinction)