

## Education

### Master of Science

EPFL - Switzerland

Sep 2022 - Present

- Data Science major.
- Relevant courses: Machine learning, Information security and privacy, applied data analysis.

### Bachelor of Science

Aalto University - Finland

Sep 2019 - May 2022

- Data Science major, Statistics minor.
- GPA: 5 out of 5.
- Relevant courses: Deep Learning, [Bayesian Data Analysis](#), [Programming Parallel Computers](#), [Data Structures and Algorithms](#).

## Experience

### Summer intern

Aalto University

Jun 2022 – Aug 2022

- Computational Systems Biology group.
- Building a latent-variable deep neural network for data generation and causal effect inference on heterogeneous data from distinct sources.

### Research Assistant

Aalto University

Jan 2022 - May 2022

- Aalto Probabilistic Machine Learning Group.
- Experimenting with Bayesian model selection via projection predictive feature selection method for causal analysis.

### Machine Learning Trainee

Nokia

May 2021 – Nov 2021

- Evaluating causal inference and discovery by taking initiative to research and implement relevant concepts and tools, leading to a successful presentation of the technology to business partners.
- Training in basic software development practices. Presenting math concepts to software engineers.

## Projects

### [Viral tweets MLOps](#)

- Pipeline for BERT large language model predicting tweet virality.
- Integrated model with data collection, retraining, and deployment.

### [GeekLearning](#)

- Dockerized Flask [web app](#) for cartoon image classification.
- SVM, feedforward net, and a state-of-the-art neural net with PyTorch.

### [Energy Demand Prediction](#)

- Modeling a complex time series on the electricity demand in Helsinki.
- SARIMAX, recurrent neural network, and Facebook Prophet.

### [Bayesian Regression](#)

- Bayesian workflow for predicting electrical output of a power plant.
- Bayesian linear and generalized additive models with R and Stan.

### [RegressionApp](#)

- Fits and visualizes univariate linear and quadratic regression models.
- Processes gigabytes-sized datasets in a few minutes.

## Skills

### Programming languages

Python, Scala, R, SQL, C++, C

### Methodology

Causal inference, probabilistic machine learning, deep learning, time series analysis, statistical inference

### Data science libraries

Tensorflow, PyTorch, Pyro, RStan, transformers, numpy, matplotlib, pandas

## Honors

### Dean's Incentive Scholarship - Aalto

Students meeting annual target of 60 credits.

### 100% tuition waiver - Aalto

Merit scholarship for non-EU/EEA students.

## Volunteer work

### Data Science Tutor

Aalto University, 2020 - 2021

- Assisting new students in adapting to campus life.
- Helping the local student association organize events for freshmen.