# Son Le

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# **Experience**

# **Research Assistant**

## **Aalto University**

**Jan 2022 – Aug 2022, Finland** 

Computational Systems Biology group (Jun 2022 – Aug 2022)

- Helped build a novel latent-variable deep neural network (NN) for synthetic data generation and causal effect inference on heterogeneous data from both observational and experimental sources. Paper in review.
- Conducted experiments on local cluster. The proposed model showed improvement over key NN baselines. *Probabilistic Machine Learning group* (Jan 2022 May 2022)
- Researched the applicability of Bayesian projection predictive inference (projpred) for causal analysis.
- Showed that projpred has potential but needs modification for causal analysis.

### **Machine Learning Trainee**

#### Nokia

May 2021 - Nov 2021, Finland

- Evaluated causal inference by taking initiative to research and implement relevant concepts and tools, leading to successful presentations to colleagues and business partners.
- Trained in basic software development practices. Presented math concepts to software engineers.

# **Teaching Assistant**

# **Aalto University**

Mar 2021 - May 2021, Finland

• Course: Programming 2. Assisting students in solving programming tasks in Scala.

#### **Education**

**Switzerland EPFL** 

Sep 2022 – Present

- M.Sc. in Data Science. Expected graduation date: September 2024
- Courses: Applied Data Analysis, Machine Learning

# Finland

Sep 2019 – May 2022

- B.Sc. in Data Science. GPA: 5 out of 5
- Courses: Bayesian Data Analysis, Programming Parallel Computers, Data Structures and Algorithms

#### **Technical Experience**

### **School Projects**

• Viral tweets MLOps. Pipeline for BERT large language model predicting tweet virality. Integrated model with data collection, retraining, and deployment. Python, PyTorch, MLFlow.

**Aalto University** 

- **GeekLearning**. Dockerized web app for classification of cartoon images. Implemented SVM, feedforward net, and a state-of-the-art neural net. Flask, PyTorch, Docker.
- Energy Demand Prediction. Modeled a complex time series on the electricity demand in Helsinki. Used SARIMAX, recurrent neural net, and Facebook Prophet. Python, TensorFlow, Prophet.
- **BayesianRegression**. Bayesian workflow for predicting electrical output of a power plant. Bayesian linear and generalized additive models. R, Stan, brms.
- RegressionApp. Fits and visualizes univariate linear and quadratic regression models. Fits models on gigabytes-sized datasets in a few minutes via online model updating. Scala, Java.

#### **Additional Experience and Honors**

- Data Science Tutor, 2020 2021 Assisting new Aalto students in adapting to campus life.
- 100% tuition waiver Merit scholarship for non-EU/EEA students, awarded for the whole degree program.
- Dean's Incentive Scholarship, 2020 2021 Students meeting the annual target of 60 credits.