



PROFILE

I am a curious and motivated individual who has a background in applied mathematics. I have research experience in machine learning research using tensorflow and PyTorch. I have learned the basics of software development from my minor in computer science, and currently looking for roles that would allow me to utilise this knowledge to designing efficient user interfaces that would improve the overall user experience.

WORK EXPERIENCE

TEACHING ASSISTANT

Nov 2022 - Dec 2023

Aalto University computer Science, High throughput bioinformatics

This course is a master's level course organised every fall, and I have been selected twice in a row. This year, I am the sole TA. I am in charge of organising workshops, grading student's homework and running Slack for Q&A. I sometimes participate in designing the homework.

RESEARCH TRAINEE

May 2023 - Aug 2023

VTT Remote Sensing Team

Investigating machine learning algorithms for geospatial data analysis, as part of a multidisciplinary project. I had the opportunity to work with people from various backgrounds, as well as contributing to the publishing of multiple papers.

RESEARCH ASSISTANT

Jun 2022 - Aug 2022

Aalto University Computer Science, PML (Probabilistic Machine Learning) group

Investigating machine learning algorithms for filling in missing data.

Yunseon Lee

MASTER'S STUDENT

Location : Espoo

Email: deresa0531@gmail.com

Github: <https://github.com/Deresaanne>

LANGUAGES

English (Fluent)

Korean (Native)

Russian (Limited working proficiency)

Finnish (YKI keskitaso - Level 3 - Pass)

SKILLS

Machine Learning / AI



Software development



Python / Matlab



UI/UX



Figma



EDUCATION HISTORY

Masters in Health Technology Engineering

Aug 2025 - Present

Aalto University

- Major: Health Robotics and Signal Processing
- Minor: Computer Science (4/5)
- Grade (overall): 4/5

Masters in Mathematics

Aug 2021 - June 2025

Aalto University

- Major: Applied Mathematics (graduated with honors - fulfilled graduation requirement in June 2023)
- Dean's incentive base scholarship (2023)
- Grade: 4,13/5 with master's thesis: 4/5
- Minor: bioinformatics and digital health

University of Dundee

- First class honours with all A(s) except one B
- Discover Dundee scholarship

PUBLICATIONS

Ihalainen, O., Lee, Y., Sandmann, T., & Möttus, M. (2023, October). Illumination correction for very high spatial resolution hyperspectral images using spectral invariants and random forest [poster presentation]. IEEE 13th Workshop on Hyperspectral Imaging and Signal Processing: Evolution in Remote Sensing (WHISPERS), Athens, Greece.

PROJECTS

**INFORMATION TECHNOLOGY PROGRAM (ITP),
STRAGEGIC AND EXPERIENCE DESIGN (SED)
TRACK (24 CR)**

Aalto University school of business

In the business project, we explored the future of human-bank interaction for a large Nordic financial industrial company - Jun 2025 to Aug 2025 (Grade: 5/5)

**SEMINAR ON CASE STUDIES IN OPERATIONS
RESEARCH (5 CR)**

Aalto University mathematics and systems analysis

Designing and building an elevator simulator that would minimize the time that is required for people to get to their destination for a task given by an industrial company (MLS Consulting Group) - Jan 2025 to June 2025