

Teemu Turpeinen



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PROFILE SUMMARY

“Complex problems are best solved through collaboration and creative analysis.”

I’m a dedicated and analytically-driven MSc student majoring in Applied Mathematics at Aalto University with a strong foundation in data analysis, machine learning, and statistical modeling. I am seeking to apply these skills to solve complex real-world problems and contribute to cutting-edge research and innovation. I have hands-on experience in designing and implementing machine learning algorithms, optimizing statistical models, and analyzing large datasets to extract meaningful insights. My academic projects, research collaborations, teamwork in a research group, and participation in a Hackathon have honed my problem-solving and communication skills, which have been further strengthened by my teaching experience.

WORK EXPERIENCE

Aalto University

Teaching Assistant

OCT 2024 – PRESENT

(PART-TIME)

I facilitate exercise sessions, evaluate exams, and guide student learning in foundational topics such as probability, statistical inference, and Bayesian inference. Additionally, I instruct students in R programming and demonstrate its application to statistical analysis.

Aalto University

Research Assistant

SEP 2024 – DEC 2024

(PART-TIME)

JUN 2024 – AUG 2024

(FULL-TIME)

I worked in the Complex Systems and Materials group within the Department of Applied Physics, researching the use of Machine Learning in Atom Probe Tomography data reconstruction, and wrote a Bachelor’s thesis on the topic. After completing the thesis I continued research on Atom Probe Tomography data reconstruction using a High-Performance Computing cluster for parallel computing and large-scale data processing. This work, where I serve as the lead author, is culminating in a research paper that is currently in progress.

Kesko

Cold Chain Logistics

JUN 2023 – AUG 2023

(FULL-TIME)

AUG 2022 – MAY 2023

(PART-TIME)

JAN 2022 – AUG 2022

(FULL-TIME)

Collected and prepared food products for delivery by operating a warehousing vehicle at a cold storage warehouse.

ATTRIBUTES

- Goal Oriented
- I believe in goal-oriented decision-making and work. A goal, for me, is composed of a series of subgoals, each of which should be actively pursued to achieve the overarching objective.
- Passionate
- I am passionate about problem-solving and applying my knowledge to real-world problems. This is reflected in my experience working on diverse applied mathematics projects.

EDUCATION

- 2025 – PRESENT

Master in Mathematics and Operations Research

Mathematics and System Analysis

Aalto University
- 2022 – 2024

Bachelor in Science and Technology

Major in Mathematics and System Sciences

Minor in Data Science

Aalto University
- 2018 – 2021

Matriculation Examination Graduate

Herttoniemen yhteiskoulun lukio

AWARDS

- 2024

Winner of the Sustainable Finance in the Quantum Era Hackathon

Built a Portfolio Optimization tool for retail investors that utilized Quantum Computing.
- 2024

Scholarship from Professor E. J. Nyström Funds

Well-performed studies focused on so-called Professor Nyström’s subjects (Mathematics).

Aalto University
- 2023, 2024

Dean’s Incentive Scholarship

Awarded for good academic progress.

Aalto University

TECHNICAL SKILLS

- DOCUMENTING

VERSION CONTROL

PROGRAMMING

SOFTWARE

HPC
- LaTeX, Markdown

Git

In order of proficiency: Python (PyTorch, GPyTorch), R, Scala, MATLAB, C

Excel and other Microsoft Office tools

Experience with a High-Performance Computing cluster for large-scale data processing and parallel computing

COMMUNICATION SKILLS

- FINNISH

ENGLISH

SWEDISH

PRESENTING
- Mother tongue

Full professional proficiency

Elementary proficiency

BSc Seminar, Hackathon Pitching

HOBBIES

- SPORTS

READING
- Badminton, Running, Gym

I am an avid reader of fiction and non-fiction, completing around 50 books annually.