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	LaTeX, Markdown
VERSION CONTROL	Git
PROGRAMMING	In order of proficiency: Python (PyTorch, GPyTorch), R, Scala, MATLAB, C
SOFTWARE	Excel and other Microsoft Office tools
HPC	Experience with a High-Performance Computing cluster for large-scale data processing and parallel computing

COMMUNICATION SKILLS

FINNISH	Mother tongue
ENGLISH	Full professional proficiency
SWEDISH	Elementary proficiency
PRESENTING	BSc Seminar, Hackathon Pitching

HOBBIES

SPORTS	Badminton, Running, Gym
READING	I am an avid reader of fiction and non-fiction, completing around 50 books annually.