Ómar Bessi Ómarsson

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Personal Profile

A motivated and ambitious Computer Science undergraduate with a keen interest Machine Learning and Machine Intelligence. Teaching Assistant in Calculus, Discrete Mathematics, and Algorithms. Recipient of a summer research grant, conducting work on Neural Architecture Search for Signal Processing. Ranked among the top 2% of my cohort with an average grade of 9.30, I bring both academic excellence and practical research experience.

Education

University of Reykjavik, BSc in Computer Science — Aug 2023 – May 2026

- Current average grade: 9.3/10
- **Relevant Modules:** *Machine Learning, Calculus for Computer Science, Applied Statistics*

Lund University, Exchange Semester in Computer Science — Jan – May 2025

- **Relevant Modules:** *Artificial Intelligence, Linear Algebra*

Research Experience

Neural Architecture Search Researcher, Reykjavík University — Summer 2025

- Conducted research on optimizing ensemble model architectures for biosignal-based sleep stage classification using Neural Architecture Search (genetic algorithms).
- Designed and implemented evolutionary algorithms for optimizing 1D CNN architectures, focusing on kernel size selection.
- Explored multiple evolutionary strategies, including Age-Layered Population Structure (ALPS), and independently developed novel optimization ideas.
- Strengthened abilities in independent research, algorithm design, and technical problem-solving.

Additional Experience

Teaching Assistant, Reykjavík University — 2024 – Present

- Teaching Assistant for Calculus, Discrete Mathematics, and Algorithms, reinforcing subject expertise.
- Guided and supported students, strengthening leadership and communication skills.

Relevant Research Skills

- Proficient in Python for data analysis, algorithm design, and research prototyping.
- Rapid learner, able to assimilate new theoretical concepts and apply them effectively in practice.
- Strong attention to detail in mathematical reasoning and formal problem solving.

Achievements and Funding

- Awarded a research grant from Rannís *Nýsköpunarsjóður námsmanna* (Student Innovation Fund, approx. £6000) to conduct summer research on Neural Architecture Search for signal processing.
- Named to the Dean's List (Fall 2024) for academic excellence.

References

- María Óskarsdóttir - University of Southampton - M.Oskarsdottir@soton.ac.uk
- Szabolcs Horvát - Reykjavík University - szabolcsh@ru.is
- Emil Harðarson - Reykjavík University - emilh@ru.is