

Viktor Rehnberg

ML Research Engineer

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Experience

- 2021–Now **Digital Research Engineer AI/ML**, *Chalmers University of Technology (CTH)*.
Providing recommendations, training and support for researchers using the Swedish national supercomputing resource for AI/ML, Alvis.
- 2023–2024 **AI Safety Researcher**, *Independent*.
To a large degree a continuation of research efforts started at SERI-MATS 4.0.
- 2023 **Research Scholar**, *SERI-MATS 4.0*, Berkeley, CA and Remote.
Main project of the 8 week research phase was a Mechanistic Anomaly Detection Benchmark (📍 ejnnc/cupbearer) with Erik Jenner at CHAI, UC Berkeley. Additionally, we explored other topics under mentor John Wentworth. Six weeks of training preceded the research phase.
- 2022 **Organiser**, *Nordic X-Risk Meet-Up*, Flen.
Organised a meet-up for senior existential risk researchers but also including more junior participants interested in getting into the field.
- 2021 **Researcher**, *AISC*, Remote.
Took part in the 5th AI Safety Camp where I conducted research on the interpretability of neural networks with a few other independent international AI researchers.
- 2019 **Project assistant**, *CTH*.
Independently planned and executed a project to explore whether and how well machine learning can be used to speed up ab-initio calculations while maintaining accuracy.
- 2017–2018 **Team member**, *IPT 2018*, Moscow.
Semi-finalist in the 10th *International Physicists' Tournament*.

Education

- 2020–2021 **Specialising in ML and AI**, *Various*, Gothenburg and Remote.
Advanced ML methods for applications in physics and ML for NLP at CTH in Gothenburg. RL remotely at UiO, Oslo. Research collaboration in interpretability of neural networks through AI Safety Camp remotely. AGI Safety Fundamentals course remotely.
- 2015–2020 **Engineering Physics, MSc Applied Physics**, *CTH*.
Some notable extracurricular activities: competing in international Physics competition; chairman of a makerspace group and research assistant.

Grants

- 2023 **Machine Learning Safety**, *NAISS Small Compute*, 12 000 GPU-h.
- 2023 **To work on artificial intelligence safety research**, *AI Safety Support*, \$11 200.
- 2023 **Reducing risks from learned optimisation**, *Long Term Future Fund*, \$19 248.
- 2021 **Funding a Nordic X-risk conference**, *EA Funds*, \$4562.

Publications

Joakim Brorsson, Viktor Rehnberg, Adam A Arvidsson, Henrik Leion, Tobias Mattisson, and Anders Hellman. Discovery of oxygen carriers by mining a first-principle database. *J. Phys. Chem. C Nanomater. Interfaces*, May 2023.

Viktor Rehnberg. Alvis – a scientific review. Technical report, Swedish National Infrastructure for Computing, Feb 2022.

References

- Available on demand