ANNA KEREKES

PhD Student in Computer Science
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SUMMARY

A PhD student at ETH in the Computer Science Department. A graduate of the University of Cambridge, specializing in Mathematics with an emphasis on Statistics. Has a passion for complex problem solving and is a machine learning enthusiast.

SKILLS

Programming: Python, C++, limited MATLAB, limited R.

Further: Problem Solving, Teaching, Team Work.

PROJECTS

12.2023 – 03.2024	**Position: Understanding LLMs Requires More Than Statistical Generalization** **arxiv link**

Our paper got accepted to The Forty-First International Conference on Machine Learning.

03.2023 – 06.2023	**Denoising Diffusion Models** **arxiv link**

Our paper Expressiveness Remarks for Denoising Diffusion Models and Samplers got accepted to the 5th Symposium on Advances in Approximate Bayesian Inference.

06.2022 – 10.2022	**Sharpness-Aware Minimization** **arxiv link**

I worked on the project with Ferenc Huszár. The project concluded with a paper Rethinking Sharpness-Aware Minimization. It was presented at Cambridge as part of the Part III seminar series in 2022. It was also accepted to the Optimization for Machine Learning workshop in 2022.

06.2021 – 10.2021	**Inductive Bias** **arxiv link**

The project concluded with a paper Depth Without the Magic: Inductive Bias of Natural Gradient Descent. It was presented at the Isaac Newton Institute as part of the Mathematics for Deep Learning seminar series.

FURTHER EXPERIENCE

07.2021 – 08.2021	**Deputy Head Counsellor at Promys Europe Connect** **link**

Teaching position with added organizational responsibilities. The subject areas were Number Theory, Graph Theory, and Combinatorics.

07.2020 – 08.2020	**Counsellor in the Promys Bridge Program** **link**

Teaching Position in Topology, Graph Theory, Combinatorics, and Group Theory.

06.2020 – 09.2020	**Junior Software Developer** **link**

EDUCATION

09.2023 –	**PhD in Computer Science** **ETH, Zürich**

I have started my PhD with Prof. Gunnar Rätsch and Dr. Bernhard Schölkopf in the CLS program.

09.2019 - 06.2023	**Bachelor of Arts and Master of Mathematics** **University of Cambridge**

I have graduated with Merit from the joint Bachelor and Master course in Mathematics. I studied at Trinity College.

LANGUAGES

English - High proficiency, **Hungarian** - native

REWARDS

EGMO	**European Girls' Mathematical Olympiads** **link**

In 2019 I received a gold medal. In 2018 and 2017 I received silver medals.

MEMO	**Middle European Mathematical Olympiad** **link**

I have received a silver medal.