Philipp Nazari

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Education

MsC **ETH Zurich**, Mathematics — Sept 2023 – Feb 2025
- Current GPA: 5.66 (Swiss grading system)
- Focus Areas: Machine Learning, Data Science

BsC **Ruprecht-Karls-University Heidelberg**, Mathematics — Oct 2019 – July 2023
- GPA: 1.3 (German grading system)
- Focus areas: Differential Geometry, Analysis, Machine Learning

BsC **University of Bergen**, Mathematics — Aug 2021 – Jan 2022
- Exchange Semester at the University of Bergen, Norway
- Focus Areas: Algebraic Topology, Differential Geometry

BsC **Ruprecht-Karls-University Heidelberg**, Physics — Oct 2019 – Aug 2022
- GPA: 1.3 (German grading system)
- Focus areas: Theoretical Physics, Machine Learning

Experience

Heidelberg Collaboratory for Image Processing (HCI), Research Assistant — Heidelberg, Germany, Aug 2022 – Mar 2023

Publications

Geometric Autoencoders – What You See is What You Decode — July 2023

Philipp Nazari, Sebastian Damrich, Fred Hamprecht

proceedings.mlr.press/v202/nazari23a.html (International Conference on Machine Learning 2023)

Research Projects

Geometric Encoder Regularization in Autoencoders — Juli 2024
- Semester Project at ETH with Prof. Thomas Hofmann. Paper and code

Entropy Aware Message Passing in Graph Neural Networks — Mai 2024
- Project spun out of the Deep Learning course at ETH by Prof. Thomas Hofmann. Paper and code

Talks

Guest Lecturer — November 2024
- Guest lecturer in the course "Machine Learning and Physics" at Ruprecht-Karls-University Heidelberg by Prof. Dr. Fred Hamprecht: "An Introduction to Autoencoders and (Geometric) Regularization Techniques"