

Philipp Nazari

phnazari.github.io

[philipp-nazari-941623252](https://philipp-nazari-941623252.surge.sh)

[phnazari](https://phnazari.com)

[Google Scholar](#)

Education

PhD	Max Planck ETH Center for Learning and Systems , Computer Science	July 2025 – July 2028
	<ul style="list-style-type: none"> CLS PhD Fellow, advised by Konstantin Rusch and Prof. Fanny Yang Research Areas: Efficient AI, Geometric Deep Learning, AI for Science 	
MsC	ETH Zurich , Mathematics	Sept 2023 – Feb 2025
	<ul style="list-style-type: none"> Current GPA: 5.66 (Swiss grading system) Focus Areas: Machine Learning, Data Science 	
BsC	Ruprecht-Karls-University Heidelberg , Mathematics	Oct 2019 – July 2023
	<ul style="list-style-type: none"> GPA: 1.3 (German grading system) Focus areas: Differential Geometry, Analysis, Machine Learning 	
	University of Bergen , Mathematics	Aug 2021 – Jan 2022
	<ul style="list-style-type: none"> Exchange Semester at the University of Bergen, Norway Focus Areas: Algebraic Topology, Differential Geometry 	
BsC	Ruprecht-Karls-University Heidelberg , Physics	Oct 2019 – Aug 2022
	<ul style="list-style-type: none"> 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

The Curious Case of In-Training Compression of State Space Models	October 2025
Makram Chahine, Philipp Nazari , Daniela Rus, T. Konstantin Rusch	
arxiv/2510.02823 (arXiv:2510.02823)	
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)	

Software

Linax: State Space Models in JAX	October 2025
Philipp Nazari , Francesco Ruscio, Benedict Armstrong	
github.com/camail-official/linax	

Research Projects

Geometric Encoder Regularization in Autoencoders	Juli 2024
<ul style="list-style-type: none"> Semester Project at ETH with Prof. Thomas Hofmann. Paper and code 	
Entropy Aware Message Passing in Graph Neural Networks	Mai 2024
<ul style="list-style-type: none"> 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"