

# Philipp Nazari

[phnazari.github.io](https://phnazari.github.io)
[philipp-nazari-941623252](https://in.linkedin.com/in/philipp-nazari-941623252)
[phnazari](https://github.com/phnazari)
[Google Scholar](https://scholar.google.com/citations?user=phnazari)

## Education

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

## Experience

<b>Heidelberg Collaboratory for Image Processing (HCI)</b> , Research Assistant	Heidelberg, Germany Aug 2022 – Mar 2023
---	--

## Publications

<b>The Curious Case of In-Training Compression of State Space Models</b> Makram Chahine, <b>Philipp Nazari</b> , Daniela Rus, T. Konstantin Rusch <a href="https://arxiv.org/abs/2510.02823">arxiv.org/abs/2510.02823</a> <a href="#">↗</a> (arXiv:2510.02823)	October 2025
<b>Geometric Autoencoders – What You See is What You Decode</b> <b>Philipp Nazari</b> , Sebastian Damrich, Fred Hamprecht <a href="https://proceedings.mlr.press/v202/nazari23a.html">proceedings.mlr.press/v202/nazari23a.html</a> <a href="#">↗</a> (International Conference on Machine Learning 2023)	July 2023

## Software

<b>Linux: State Space Models in JAX</b> <b>Philipp Nazari</b> , Francesco Ruscio, Benedict Armstrong <a href="https://github.com/camail-official/linux">github.com/camail-official/linux</a> <a href="#">↗</a>	October 2025
--	--------------

## Research Projects

<b>Geometric Encoder Regularization in Autoencoders</b> <ul style="list-style-type: none"> <li>Semester Project at ETH with Prof. Thomas Hofmann. <a href="#">Paper</a> <a href="#">↗</a> and <a href="#">code</a> <a href="#">↗</a></li> </ul>	Juli 2024
<b>Entropy Aware Message Passing in Graph Neural Networks</b> <ul style="list-style-type: none"> <li>Project spun out of the Deep Learning course at ETH by Prof. Thomas Hofmann. <a href="#">Paper</a> <a href="#">↗</a> and <a href="#">code</a> <a href="#">↗</a></li> </ul>	Mai 2024

## Talks

<b>Guest Lecturer</b>	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"