

Philipp Nazari

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Education

PhD	ETH Zurich/MPI CLS , Computer Science <ul style="list-style-type: none">CLS PhD fellow, advised by Konstantin Rusch (MPI CLS) and Prof. Dr. Fanny Yang (ETH Zurich)	July 2025 – May 2028
MSc	ETH Zurich , Mathematics <ul style="list-style-type: none">Focus Areas: Machine Learning, Data ScienceThesis: <i>The Geometry of Generalization</i>	Sept 2023 – May 2025
BsC	Ruprecht-Karls-University Heidelberg , Mathematics <ul style="list-style-type: none">GPA: 1.3 (German grading system)Focus areas: Differential Geometry, Analysis, Machine Learning	Oct 2019 – July 2023
	University of Bergen , Mathematics <ul style="list-style-type: none">Exchange Semester at the University of Bergen, NorwayFocus Areas: Algebraic Topology, Differential Geometry	Aug 2021 – Jan 2022
BsC	Ruprecht-Karls-University Heidelberg , Physics <ul style="list-style-type: none">GPA: 1.3 (German grading system)Focus areas: Theoretical Physics, Machine Learning	Oct 2019 – Aug 2022

Experience

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

Geometric Autoencoders – What You See is What You Decode <i>Philipp Nazari</i> , Sebastian Damrich, Fred Hamprecht proceedings.mlr.press/v202/nazari23a.html (International Conference on Machine Learning 2023)	July 2023
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Research Projects

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

Talks

Guest Lecturer <ul style="list-style-type: none">Guest lecturer for the course "Machine Learning and Physics" by Prof. Dr. Fred Hamprecht at the university of Heidelberg: "An Introduction to Autoencoders and (Geometric) Regularization Techniques"	November 2024
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