Tim Lichtnau

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Education

Guest Student	**University of Gothenburg**	09/2024 - 04/2025
	• Master Thesis ⬈: "Stacks in Synthetic Algebraic Geometry"	
	• Reading Group Higher Categories and homotopical algebra	
Master's Studies	**University of Bonn, Math**	from 2022
	• **Courses:** Algebraic Geometry, Algebraic Topology, Higher Category Theory.	
Bachelor's Studies	**University of Bonn, Math**	2019-2022
	• Bachelor's Thesis ⬈ "Browns Representability Theorem in Higher Category Theory"	
School	**A.v.H. Gymnasium Greifswald**	2011-2019
	• individual mentoring at the Math Institute Greifswald	
	• Math olympiad training (Jugend trainiert Mathematik)	
	• Class for promotion of gifted students	

Seminars / Conferences

Workshops Synthetic Algebraic Geometry ⬈	Augsburg & Gothenburg , 2023 & 2024
From Analysis to Homotopy Theoy	2024 Greifswald
HoTTest Summer School	2022
Computational Intelligence of Computer Mathematics (Slides) ⬈	2021

Experience

Teaching Assistant	Uni Bonn, 2021-2024
Software Development in Haskell	Digitally Induced ⬈, 2023-2024

Publications

Natural Typesetting of Naproche Formalizations in LaTeX (PDF) ⬈	CICM 2021

Formalization Projects

Fibered Yoneda Lemma	Lean ⬈
Fourier Analysis	Collaborative Formalization Project in Lean ⬈

Computer Skills

Languages: Haskell, Java, Python, Proof Assistants: Agda, Lean