

Noa Vikman

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University of Fribourg, Chemin du Musée 23, 1700 Fribourg, Switzerland

EDUCATION 2023–Now **PhD Mathematics**, University of Fribourg. Supervised by Prof. Stefan Wenger. Part of the Swiss National Science Foundation project 212867.

2021–2023 **MSc Mathematics**, KTH Royal Institute of Technology and Stockholm University. Exchange year at ETH Zürich 2022–2023.

2018–2021 **BSc Engineering Physics**, KTH Royal Institute of Technology.

RESEARCH with D. Meier and S. Wenger: *Monotone Sobolev extensions in metric surfaces and applications to uniformization*, Preprint Arxiv 2025.

with D. Meier and S. Wenger: *Energy minimizing harmonic 2-spheres in metric spaces*, Preprint Arxiv 2025.

Recent Proofs of Gromov's Theorem on Groups of Polynomial Growth, MSc Thesis supervised by Prof. U. Lang at ETHZ (2023).

with G. Romare: *Models of the Universe: An analysis of the asymptotic behaviour of non-linear dynamical systems*, BSc Thesis supervised by Prof. H. Ringström at KTH (2021).

Gold Nanoparticles as a Potential Colorimetric Sensor of Arsenic in Ground Water, High school diploma project supervised by Prof. J. Dutta and Dr. A. Uheida at KTH (2018).

ORGANIZING AND COMMITTEES **Bern-Fribourg Graduate Seminar**, University of Fribourg and University of Bern (2025–Now).

Swiss Mathematical Society Doctoral Day, University of Fribourg, 9 May 2025.

Co-founder & Organizer, Stockholm Master's in Mathematics Seminar, Stockholm Mathematics Centre (2021–2023).

Course Evaluation Board, KTH Royal Institute of Technology (2019–2021).

TEACHING **University of Fribourg**, Teaching assistant for: Analysis I, Analysis II, Analysis III and Numerical Analysis

KTH Royal Institute of Technology, Teaching assistant for: Analysis in One Variable, Linear Algebra, Numerical Analysis and Introductory Mathematics.

OUTREACH ACTIVITIES Representation of the Math department during *Explora* and *Journée Futur en tous genres* outreach days at the University of Fribourg (2023–Now).

FELLOWSHIPS AND GRANTS 2025 **Hausdorff Research Institute of Mathematics (HIM) Fellowship**, supporting my extended stay in Bonn.

2022 **Erasmus+ Scholarship**, supporting my studies at ETH Zürich.

2018 **Swedish Junior Water Prize**, awarded for my research project of that year.

EXTENDED STAYS 2nd half of June 2026 **Simons Semester Geometric Analysis**, IMPAS Warsaw.

Jaunuary-April 2025 **Trimester Program: Metric Analysis**, HIM, Bonn. Including the winter school: *Analysis and geometry on groups and spaces*, the conference: *Differential geometry beyond Riemannian manifolds* and the Felix Klein lectures.

INVITED TALKS June 2026 **Simons Seminar in Geometric Analysis**, IMPAN Warsaw.

2026 **Vienna Geometric Analysis Seminar**, University of Vienna.

2025 **Conférence Universitaire de Suisse Occidentale (CUSO) Graduate Colloquium**, University of Basel.

2025 **Differential geometry and general relativity seminar**, KTH Royal Institute of Technology.

2025 **Analysis seminar**, University of Jyväskylä.

2024 **Geometry Graduate Colloquium**, ETH Zürich.

2024 **Bern-Fribourg Graduate Seminar**, University of Bern.

2021 **Water Dialogues – What's underground? The Undervalued Groundwater**, Stockholm International Water Institute.

ATTENDED CONFERENCES	2025 CUSO Summer School in Mathematics , Centro Magliaso.
	2025 Quasiweekend III , University of Helsinki.
	2024 Metric Geometry and Geometric Measure Theory , University of Fribourg.
	2024 Geometry and Analysis on Metric Surfaces , Polish Academy of Sciences Warsaw.
	2024 Challenges in Analysis and Geometry , ETH Zürich.
	2024 13th School on Analysis and Geometry in Metric Spaces , University of Trento.
	2024 Conference en Mémoire d'André Haefliger , University of Geneva.
	2023 CUSO Graduate Colloquium , University of Fribourg.
	2023 Riemannian Topology Meeting , University of Fribourg.
	2023 Swiss Geometry Day , UniDistance Suisse Campus Brig.
	2022 Twinned Conference on Homotopy Theory with Applications to Arithmetic and Geometry , Max Planck Institute for Mathematics in Bonn.
OTHER WORK	2022–2023 Junior Consultant in Data and Analytics , Victri Advice.
	Summer 2020 Tech Summer Intern , Storytel, Back end development.
OTHER ACCOMPLISHMENTS	2018 China Adolescent Science Technology Innovation Contest , Chonqing, awarded second prize in the international category for my research project of that year.
	2017 World School's Debating Championship , Bali, competed in the Swedish national team.