

Noa Vikman

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- EDUCATION** 2023–Now **PhD Mathematics**, University of Fribourg. Supervised by Prof. Stefan Wenger. Part of the Swiss National Science Foundation (SNSF) 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*, Proc. Amer. Math. Soc., to appear.
- with D. Meier and S. Wenger: *Energy minimizing harmonic 2-spheres in metric spaces*, J. Reine Angew. Math., to appear.
- Recent Proofs of Gromov’s Theorem on Groups of Polynomial Growth*, MSc Thesis supervised by Prof. U. Lang at ETHZ (2023).
- ORGANIZING AND COMMITTEES** **Bern-Fribourg Graduate Seminar**, University of Fribourg and University of Bern (2025–2026).
- 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.
- FELLOWSHIPS AND GRANTS** 2026 **SNSF Project Mobility Grant**, CHF 10750 supporting my planned extended stay at the University of Toronto.
- 2025 **Hausdorff Research Institute of Mathematics (HIM) Fellowship**, supporting my extended stay in Bonn.
- 2022 **Erasmus+ Scholarship**, supporting my studies at ETH Zurich.
- 2018 **Swedish Junior Water Prize**, awarded for my research project of that year.
- EXTENDED STAYS** August 2026 - January 2027 **International Visiting Graduate Student**, University of Toronto. Planned research visit to the group of Prof. Yevgeny Liokumovich.
- 2nd half of June 2026 **Simons Semester Geometric Analysis**, IMPAS Warsaw.
- January-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** 2026 **Simons Seminar in Geometric Analysis**, IMPAN Warsaw.
- 2026 **Modern Advances in Geometric Analysis**, Będlewo, Poland - Lightning talk.
- 2026 **The Geometry and Topology seminar**, University of Luxembourg.

- 2026 **The Swiss Mathematical Society Doctoral Day**, ETH Zurich.
- 2026 **Geometry and Spectra of Compact Riemann Surfaces**, EPFL - Lightning talk.
- 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**

- 2026 **Math in May**, ETH Zurich.
- 2026 **Workshop on bubbling phenomena in geometric analysis**, ETH Zurich.
- 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.

**EARLIER
RESEARCH**

- 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).

OTHER WORK

- 2022–2023 **Junior Consultant in Data and Analytics**, Victri Advice.
- Summer 2020 **Tech Summer Intern**, Storytel, Back end development.

**OTHER
ACCOMPLISH-
MENTS**

- 2018 **China Adolescent Science Technology Innovation Contest**, Chongqing, 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.