

Positions

In the Applied Mathematics group at Technical University Berlin.

- 08.2023 – 01.2029** **PhD candidate** (with teaching responsibilities from 2024 on, Funded by the German Federal Ministry of Education and Research under the project “VI-Screen” until then.)
- 04.2023 – 07.2023** **PhD Stipend** (Researching Wasserstein gradient flows with respect to the Rényi divergence and entropy.)
- 06.2021 – 03.2023** **Student research assistant** (Research on Wasserstein gradient flows, writing a script for the lecture “Approximation theory” and rewriting the script for the lecture “Convex Analysis” in the setting of infinite-dimensional spaces, proofreading manuscripts.)

At the Department of Mathematics, Technical University Berlin.

- 10.2019 – 03.2021** **Tutor** (Giving tutorials and correcting homework for the lectures “Functional Analysis I”, “Differential Equations I” and “Linear Algebra for Engineers”).

Preprints

- 07.02.2024** **Wasserstein Gradient Flows for Moreau Envelopes of f -Divergences in Reproducing Kernel Hilbert Spaces** (Joint work with Sebastian Neumayer, TU Chemnitz and Gabriele Steidl and Nicolaj Rux, TU Berlin.)

Teaching

- 04.2024 - 07.2024** **Convex Analysis** (Lecture assistant)

Elective module in the Mathematics program.

- 01.2024 - 02.2024** **Numerical Mathematics I (in German)** (Lecture assistant)

a third-semester’s module in the Mathematics Bachelors program.

Education

- 04.2021 – 05.2023** **Mathematics Master** (Technische Universität Berlin. Final grade: 1.1)

Focus on further Functional Analysis topics as well as Topology, Differential Geometry, Complex Analysis and Statistics. Master’s thesis: Wasserstein gradient flows - with an eye towards positive matrix-valued measures. Supervised by Prof. Gabriele Steidl and Dr. Robert Beinert.

- 10.2017 – 04.2021** **Mathematics Bachelor** (Technische Universität Berlin. Final grade: 2.0)

Focus on Functional Analysis and Differential Equations with a minor in Machine Learning. Bachelor’s thesis: Atomic Norm Minimisation for Superresolution. Supervised by Prof. Gabriele Steidl and Dr. Robert Beinert.

Awards

At the 17. annual Dies Mathematicus in 2022 at the TU Berlin I received a prize for the best Bachelor’s thesis talk.

Volunteer work

Since the beginning of this school year in September 2022 I have been tutoring around fourteen seventh-graders in weekly sessions discussing mathematical puzzles and questions from the Mathematical Olympiad.

I have also served as corrector at the team competition at the Tag der Mathematik 2022 (organised by the three Berlin universities), where 69 teams of high schoolers participated.