

# Damaris Meier

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## Education

- 10/2020 - today    **PhD in Mathematics** under the supervision of Stefan Wenger,  
University of Fribourg, Switzerland
- 01/2023 - 07/2023    **Research stay** under the supervision of Dimitrios Ntalampekos, Stony  
Brook University, New York, USA
- 09/2019 - 09/2020    **Master of Science in Mathematics**, University of Bern, Switzerland
- 09/2015 - 09/2019    **Bachelor of Science in Mathematics**, Minor in Computer Science and  
Physics, University of Bern, Switzerland

## Employment

- 10/2020 - today    **Diploma assistant**, Department of Mathematics, University of Fribourg,  
Switzerland
- 01/2023 - 07/2023    **Visiting PhD student**, Stony Brook University, New York, USA, with  
Doc.Mobility grant of the University of Fribourg
- 02/2021 - 12/2022    **ICT technician**, Department of Mathematics, University of Fribourg,  
Switzerland
- 09/2017 - 05/2020    **Teaching assistant**, Mathematical Institute, University of Bern,  
Switzerland

## Publications and preprints

- [6] with Kai Rajala: *Definitions of quasiconformality on metric surfaces*, Preprint arXiv:  
2405.07476, 2024.
- [5] with Kai Rajala: *Mappings of finite distortion on metric surfaces*, Preprint arXiv:  
2309.15615, 2023.
- [4] *Quasiconformal uniformization of metric surfaces of higher topology*, Indiana Univ. Math.  
J., to appear.
- [3] with Stefan Wenger: *Quasiconformal almost parametrizations of metric surfaces*, J. Eur.  
Math. Soc. (2024), published online first.
- [2] with Dimitrios Ntalampekos: *Lipschitz-Volume rigidity and Sobolev coarea inequality for  
metric surfaces*, J. Geom. Anal. 34 (2024), No. 5, Paper No. 128.
- [1] with Martin Fitzi: *Canonical parametrizations of metric surfaces of higher topology*, Ann.  
Fenn. Math. 48 (2023), No. 1, 67–80.
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## Funding and awards

01/2023 - 07/2023    *Doc.Mobility* grant of the University of Fribourg (7 months research stay abroad and travel funds for conferences)

## Teaching

University of Fribourg    Teaching assistant for analysis, introduction to numerical analysis, propedeutic analysis

University of Bern    Teaching assistant for analysis, differential geometry, mappings of metric spaces, mathematics for biology students, numerical analysis

## Organized research activities

02/2022 - today    Co-founder and co-organizer of the Bern–Fribourg graduate seminar, *University of Bern and University of Fribourg*

11/2023    Co-organizer of the 22th CUSO Graduate Colloquium, *University of Fribourg*

## Other activities and outreach

09/2024    Preparatory course in mathematics, University of Fribourg

10/2023    Leonardo Math Camp, *Camp for highschool students*, Les Diablerets

2017 - today    Speaker at several outreach events per year: Topics surrounding math studies and women in math (TecDay, Science for youth, Explora, national future day, Infoday, ...)

## Scientific talks

08/2024    *Metric Geometry and Geometric Measure Theory*, University of Fribourg

07/2024    *Workshop: Geometry and Analysis on metric surfaces*, IMPAN, Warsaw

05/2024    *Swiss Mathematical Society Doctoral Day 2024*, University of Basel

04/2024    *Analysis Seminar*, Stony Brook University

04/2024    *Geometric Analysis and Topology Seminar*, New York University

04/2024    *AMS Spring Eastern Sectional Meeting*, Howard University, Washington DC

02/2024    *Geometric analysis seminar*, University of Jyväskylä

01/2024    *Fribourg seminars on analysis and geometry on metric spaces*, University of Fribourg

04/2023    *AMS Spring Eastern Sectional Meeting*, online

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03/2023 *Differential Geometry and Geometric Analysis Seminar*, Princeton University  
03/2023 *Analysis Seminar*, University of Tennessee, Knoxville  
02/2023 *Analysis Seminar*, Stony Brook University  
09/2022 *Geometry Graduate Colloquium*, ETH Zürich  
05/2022 *Oberseminar Differentialgeometrie*, Max Planck Institute Bonn  
04/2022 *Oberseminar Geometrie*, University of Fribourg  
12/2021 *Bernoullis Tafelrunde*, University of Basel  
11/2021 *Quasiworld Seminar*, online  
10/2021 *Oberseminar Geometrie*, University of Fribourg

### Attended conferences, workshops and schools

04/2024 *AMS Spring Eastern Sectional Meeting, Special Session on Interactions Between Analysis, Geometric Measure Theory, and Probability in Non-Smooth Spaces*, Howard University, Washington DC  
08/2023 *Analysis & beyond: a conference in honour of Luigi Ambrosio's 60th birthday*, Zürich  
08/2023 *Quasiworld Workshop*, Helsinki  
08/2023 *The 32nd Jyväskylä Summer School*, Jyväskylä  
04/2023 *AMS Spring Eastern Sectional Meeting, Special Session on Quasiconformal Analysis and Geometry on Metric Spaces*, online  
11/2022 *Discrete and locally compact groups: geometry and analysis*, Lyon  
07/2022 *Mentor at Metric Geometry and Geometric Analysis Summer School*, Oxford  
06/2022 *Young Women in Geometric Analysis*, Bonn  
06/2022 *Differential Geometry in the Large*, Karlsruhe

### Personal skills

**Languages** (Swiss) German: Native, English: Proficiency, French: Upper-Intermediate  
**Software** LaTeX, Inkscape, Java, Python, Mathematica, MatLab, R