Damaris Meier

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I am a Hermann-Weyl-Instructur at ETH Zurich. My research interests lie at the intersection of several active areas of mathematics, including geometric analysis, metric and differential geometry, geometric measure theory, and analysis on metric spaces.

Education		
09/2024 - 06/2025	Certificate of Advanced Studies in Higher Education and Educational Technology, University of Fribourg, Switzerland	
10/2020 - 05/2025	PhD in Mathematics under the supervision of Stefan Wenger, University of Fribourg, Switzerland	
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	
Employment		
09/2025 - today	Hermann-Weyl-Instructor, ETH Zurich, Switzerland	
10/2020 - 06/2025	Diploma assistant, University of Fribourg, Switzerland	
02/2021 - 12/2022	ICT technician, University of Fribourg, Switzerland	
09/2017 - 05/2020	Teaching assistant, University of Bern, Switzerland	
	Funding and awards	
01/2023 - 07/2023	Doc.Mobility grant of the University of Fribourg (7 months research stay at Stony Brook University and travel funds for conferences)	
	Extended research stays	

06/2026 - 07/2026	Simons Semester in Geometric Analysis, Institute of Mathematics of the
	Polish Academy of Sciences, Warsaw, Poland
01/2025 - 04/2025	Trimester Program: Metric Analysis", Hausdorff Research Institute for
	Mathematics, Bonn, Germany
01/2023 - 07/2023	Doc.Mobility research stay, Stony Brook University, New York, USA

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Publications and preprints

- [7] with Noa Vikman and Stefan Wenger: Energy minimizing harmonic 2-spheres in metric spaces, Preprint arXiv: 2503.08553.
- [6] with Kai Rajala: Definitions of quasiconformality on metric surfaces, Potential Anal (2025), published online first.
- [5] with Stefan Wenger: Quasiconformal almost parametrizations of metric surfaces, J. Eur. Math. Soc. (2024), published online first.
- [4] with Kai Rajala: Mappings of finite distortion on metric surfaces, Math. Ann. 391 (2025), 2479-2507.
- [3] Quasiconformal uniformization of metric surfaces of higher topology, Indiana Univ. Math. J. **73** (2024), no. 5, 1689–1713.
- [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.

Invited Conference and Workshop talks

05/2026	Workshop on Potential Theory and Geometric Function Theory in Metric Spaces, Instituto de Ciencias Matemáticas Madrid
09/2025	Milan-Grenoble-Turin meeting in geometry and topology, Université Grenoble Alpes
07/2025	Differentialgeometrie im Grossen, Mathematisches Forschungsinstitut Oberwolfach
06/2025	Quasiweekend III, University of Helsinki
03/2025	Differential geometry beyond Riemannian manifolds, Hausdorff Research Institute for Mathematics Bonn
01/2025	Geometric structures and infinite-dimensional manifolds, Erwin Schrödinger International Institute for Mathematics and Physics (ESI) Vienna
08/2024	Metric Geometry and Geometric Measure Theory, University of Fribourg
07/2024	Geometry and Analysis on metric surfaces, IMPAN, Warsaw
04/2024	AMS Spring Eastern Sectional Meeting, Howard University, Washington DC
04/2023	AMS Spring Eastern Sectional Meeting, online

Invited Seminar talks

02/2025	Trimester Seminar Series, Hausdorff Research Institute for Mathematics Bonn
11/2024	Geometrie Seminar, Karlsruher Institut für Technologie
04/2024	Analysis Seminar, Stony Brook University
04/2024	Geometric Analysis and Topology Seminar, New York University
02/2024	Geometric analysis seminar, University of Jyväskylä
03/2023	Differential Geometry and Geometric Analysis Seminar, Princeton University
03/2023	Analysis Seminar, University of Tennessee, Knoxville

02/2025

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02/2023	Analysis Seminar, Stony Brook University
09/2022	Geometry Graduate Colloquium, ETH Zürich
05/2022	Oberseminar Differentialgeometrie, Max Planck Institute Bonn
12/2021	Bernoullis Tafelrunde, University of Basel
11/2021	Quasiworld Seminar, online

Organized research activities

03/2025	Co-organizer of the CUSO career day, University of Fribourg
02/2022 - 01/2025	Co-founder and co-organizer of the <i>Bern–Fribourg graduate seminar</i> , University of Bern and University of Fribourg
11/2023	Co-organizer of the 22th CUSO Graduate Colloquium, University of Fribourg

Teaching

Fribourg: Teaching assistant for analysis, introduction to numerical analysis, propedeutic analysis,

analysis on metric spaces

Bern: Teaching assistant for analysis, differential geometry, mappings of metric spaces,

mathematics for biology students, numerical analysis

Outreach activities

10/2025	Leonardo Math Camp - A camp for highschool students, Les Diablerets
09/2024	Preparatory course in mathematics, University of Fribourg
10/2023	Leonardo Math Camp - A camp for highschool students, Les Diablerets
2017 - today	Organizer and speaker at several outreach events annually for high school students, prospective students and general public: TecDay, Science for youth, Explora, national future day, Infoday,

Personal skills

Languages: (Swiss) German: Native, English: Proficiency, French: Upper-Intermediate

Programming: LaTeX, Java, Python, Mathematica, MatLab, R