

Loreno Heer

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Dr. sc. nat.

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(Pronouns: he/him/his)

Research interest

Analysis in metric spaces, in particular quasiconformal, quasi-symmetric and quasi-Möbius geometry. (Gromov-)hyperbolic geometry and geometric group theory. Geometric analysis in general and low-dimensional topology. Furthermore I am interested in the geometry of space-time.

Education

- 11/2015 – 01/2021 **PhD in Mathematics**, University of Zurich.
Thesis: *The Boundary at Infinity of Gromov-Hyperbolic Spaces*, supervised by Prof. Dr. Viktor Schroeder, defended January 27, 2021.
- 09/2012 – 09/2015 **Master of Science ETH in Mathematics**, ETH Zurich.
Thesis: *Undistortedness of Lipschitz n -connected closed subsets in quasi-convex metric spaces of finite Assouad-Nagata dimension*, supervised by Prof. Dr. Urs Lang.
- 09/2008 – 09/2012 **Bachelor of Science in Mathematics**
(with minor Physics and Computer Science), University of Bern.
Thesis: *Low-dimensional linear representations of mapping class groups and their triviality in certain cases*, supervised by Prof. Dr. Sebastian Baader.
- 09/2000 – 09/2004 **EFZ Computer Science**

Appointments

- 11/2015 – 01/2021 **PhD Student and Teaching Assistant**, University of Zurich.
- 09/2004 – 06/2006 **Java Software-Engineer**, Swisscom IT-Services.
- 02/2003 – 02/2004 **Internship**, Swisscom IT-Services.
- 02/2002 – 07/2002 **Internship**, Swisscom IT-Services.

Publications and Preprints

- [1] Loreno Heer. “Some Invariant Properties of Quasi-Möbius Maps”. In: *Analysis and Geometry in Metric Spaces* 5.1 (28 Aug. 2017), pp. 69–77. DOI: <https://doi.org/10.1515/agms-2017-0004>. URL: <https://www.degruyter.com/view/journals/agms/5/1/article-p69.xml>.

Workshops and Conferences

- *going the MATH way (goMATH 2019)*, Symposium, Zurich, Switzerland (12 to 14 March 2019).
- *Groups, geometries, and spaces in honour of Alessandra Iozzi*, ETH Zurich, Switzerland (22 to 25 January 2019).
- *Young Geometric Group Theory VII*, Les Diablerets, Switzerland (12 to 16 March 2018).
- *23rd Rolf Nevanlinna Colloquium*, ETH Zurich, Switzerland (12 to 16 June 2017).

Talks given

- 9 October 2019 Geometric Analysis Seminar / Oberseminar Geometrie
Möbius maps and the boundary at infinity of metric spaces
University of Fribourg

Professional memberships and refereeing

since 2021 American Mathematical Society.
since 2017 Reviewer for MathSciNet (Mathematical Reviews).
since 2014 Reviewer for zbMATH.
since 2014 Swiss Mathematical Society.

Teaching experience

As an assistant / teaching assistant at University of Zurich

(Responsible for discussion sections, grading, and partly for creating homework assignments, supervising projects.)

FS16	MAT151	Grundbegriffe der Mathematik
FS16	MAT153	Zahlentheorie
HS16	MAT101	Programming
FS17	MAT112	Lineare Algebra II
HS17	MAT101	Programming
FS18	MAT823	Introduction to Computability and Complexity Theory
HS18	MAT101	Programming
FS19	MAT184	Analysis für die Chemie
HS19	MAT101	Programming
FS20	MAT184	Analysis für die Chemie
HS20	MAT101	Programming

MSc Thesis Co-Advisor

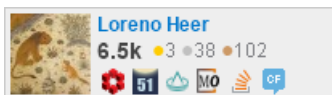
FS18 Andresen, Silke Berit Low-dimensional Boundaries of $CAT(0)$ Spaces

Additional tasks

FS16 Correction MAT183
FS17 Correction MAT183
HS18 Correction MAT182

Other activities and outreach

Active on mathoverflow.com and math.stackexchange.com:



Other skills

Languages German / Swiss German (native). English (proficient).
Software \LaTeX , C, C++, Python, R, Linux, Bash, emacs, vim.

References

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