

Gabriele Viaggi

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ACADEMIC POSITIONS

University of Heidelberg www.mathinf.uni-heidelberg.de
Mar 2020 - present Postdoc at the Mathematical Institute.
Mentor: Prof. Beatrice Pozzetti

EDUCATION

University of Bonn www.math.uni-bonn.de
Oct 2016 - Jan 2020 Ph.D. in Mathematics
Advisor: Prof. Ursula Hamenstädt

Graduate school: IMPRS <https://www.mpim-bonn.mpg.de/node/78>

Scuola Normale Superiore (SNS) wwweng.sns.it
2011 - 2016 Diploma

University of Pisa www.dm.unipi.it/webnew/en
2014 - 2016 Master degree in Mathematics, Advisor: Roberto Frigerio
2011 - 2014 Bachelor degree in Mathematics, Advisor: Riccardo Benedetti

PUBLICATIONS

Small eigenvalues of random 3-manifolds

with Ursula Hamenstädt

Transactions of the AMS 375 (2022), 3795-3840

<https://doi.org/10.1090/tran/8564>

Volumes of random 3-manifolds

Journal of Topology 14 (2021), 504-537

<https://doi.org/10.1112/topo.12190>

Geometry of random 3-manifolds

PhD Thesis, University of Bonn, 2020

available at <https://nbn-resolving.org/urn:nbn:de:hbz:5-57316>

PREPRINTS

Length functions in Teichmüller and anti de Sitter geometry

with Filippo Mazzoli, preprint

$SO_0(2, n + 1)$ -maximal representations and hyperbolic surfaces

with Filippo Mazzoli, preprint, arXiv:2206.06946.

Uniform models and short curves for random 3-manifolds

with Peter Feller and Alessandro Sisto, preprint arXiv:1910.09486

INVITED TALKS

- Feb 2022 Conference Spectra and Dynamics on (Locally) Symmetric Spaces, University of Paderborn
- Mar 2021 Geometry Seminar, University of Virginia, online
- Jun 2020 International young seminar on bounded cohomology and simplicial volume, online
- Jun 2020 NCNGT Conference, online
- May 2020 Differential Geometry Seminar, University of Heidelberg
- Nov 2019 Séminaire de géométrie et topologie, University Pierre et Marie Curie, Paris
- Nov 2019 Séminaire de géométrie, University Paris-Est Créteil
- Nov 2019 Geometry seminar, ETH Zurich
- Jul 2019 Arbeitstagung on Geometry, MPIM Bonn
- May 2019 Geometry seminar, LMU Munich

TEACHING

Winter 2020, Heidelberg *Hyperbolic manifolds* (class, 60 hours)
Summer 2017, Bonn Tutorials for the class *Ending Lamination Theorem* (20 hours).

STUDENTS SUPERVISED

Apr 2022, Heidelberg Marcel Stoklasa, Bachelor Thesis.
co-supervised with Prof. Beatrice Pozzetti.

ORGANIZATION

Conferences

September 18-25, 2022 Anosov representations topic group of the NCNGT 2022 conference.
Co-organized with Filippo Mazzoli.

Seminars

2021-2022 Heidelberg Differential Geometry Seminar (co-organizer).
2020-2021 Heidelberg Geometry group informal seminar (organizer during WS 2020)
2016-2020 Bonn Geometry group informal seminar (organizer during WS 2019)

OTHER ACTIVITIES

Outreach

2022 Heidelberg Part of the organizational team of the University of Heidelberg
for a public event celebrating the Poincaré Conjecture.

LANGUAGES

Italian Native
English Fluent