

YANNICK MICHAEL KRIFKA

Personal

Citizenship:	German
Office Address:	J 16.5 ETH Zürich Hauptgebäude Rämistrasse 101 CH-8092 Zürich Switzerland
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Education

ETH Zurich: PhD in mathematics Advisor: Prof. Dr. A. Iozzi	since Feb 2016
University of Heidelberg: M.Sc. in mathematics Thesis: <i>On Volume Rigidity of Lattices</i> , Advisor: Prof. Dr. A. Wienhard, graduated with overall average grade: 1.0 (very good).	Mar 2013 - Jan 2016
University of Leeds (UK): ERASMUS student	Sep 2013 - Jan 2014
University of Heidelberg: B.Sc. in mathematics Thesis: <i>Fenchel-Nielsen Koordinaten auf Teichmüllerräumen</i> , Advisor: Prof. Dr. W. Kohnen, graduated with overall average grade: 1.1 (very good).	Sep 2009 - Jan 2013

Preprints & Publications

1. *On the IRS compactification of moduli space*, arXiv:2002.02279

Scholarships

ERASMUS scholarship for a study abroad semester at the University of Leeds	Sep 2013 - Jan 2014
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Awards

Program Associate Position at MSRI funded by GEAR Graduate Internship	Aug 2019 - Oct 2019
DMV-Abiturpreis 2009 für herausragende Abiturleistungen (ger. <i>Award by the german mathematical society for outstanding performance in mathematics at highschool</i>)	Mar 2009

Conferences and Workshops attended

<i>Holomorphic Differentials in Mathematics and Physics (Workshop)</i> in Berkeley (USA)	Nov 2019
<i>Holomorphic Differentials in Mathematics and Physics (MSRI program)</i> in Berkeley (USA)	Sep 2019 - Dec 2019
<i>Of coarse! Quasi-isometries and groups: rigidity and classification</i> in Ventotene (Italy)	Sep 2019
<i>Groups with hyperbolic features</i> in Zurich (Switzerland)	Aug 2019
<i>Into the forest: group actions on trees and generalizations</i> in Haifa (Israel)	Jul 2019
<i>Young Geometric Group Theory VIII</i> in Bilbao (Spain)	Jun 2019
<i>Rigidity (Simons Semester: Geometric and Analytic Group Theory)</i> in Warsaw (Poland)	Jun 2019

<i>Groups, geometries, and spaces in honour of Alessandra Iozzi</i> in Zurich (Switzerland)	Jan 2019
<i>Topology and Dynamics in the Swiss Alps (Borel Seminar 2018)</i> in Les Diablerets (Switzerland)	Dec 2018
<i>Representations of surface groups and beyond</i> in Lille (France)	Sep 2018
<i>Nonpositively Curved Groups on the Mediterranean</i> in Nahsholim (Israel)	May 2018
<i>Young Geometric Group Theory VII</i> in Les Diablerets (Switzerland)	Mar 2018
<i>Conference on Moduli Spaces</i> in Ventotene (Italy)	Sep 2017
<i>GEAR Retreat</i> at Stanford University (USA)	Aug 2017
<i>GEAR Junior Retreat</i> at Stanford University (USA)	Jul/Aug 2017
<i>Group actions and cohomology in non-positive curvature</i> at the Isaac Newton Institute in Cambridge (UK)	Jun 2017
<i>Young Geometric Group Theory VI</i> at the University of Oxford (UK)	Mar 2017
<i>Non-Positive Curvature in Action</i> at the Isaac Newton Institute in Cambridge (UK)	Jan 2017
<i>Young Geometric Group Theory V</i> at Karlsruhe Institute of Technology (Germany)	Feb 2016
<i>2nd Geometry Day — Heidelberg - Karlsruhe - Strasbourg</i> at Karlsruhe Institute of Technology (Germany)	May 2013
<i>Mathematics and Physics of Moduli Spaces</i> at the University of Heidelberg (Germany)	Sep 2013
Taster course “Mathematical Models in Population Dynamics” at Karlsruhe Institute of Technology (Germany)	Jul/Aug 2009
Taster course “Graph Theory” at Karlsruhe Institute of Technology (Germany)	Jul/Aug 2008

Organization

Organization of the lecture “Analysis II” by Prof. Dr. P. Jossen at ETH Zürich	Feb 2019 - May 2019
Organization of the student seminar “Symmetric Spaces of Non-Compact Type” by Prof. Dr. A. Iozzi at ETH Zürich	Sep 2018 - Dec 2018
Co-founder and organizer of the Geometry Graduate Colloquium at ETH Zürich	since Mar 2018
Organization of the lecture “Symmetric Spaces” by Prof. Dr. A. Iozzi at ETH Zürich	Feb 2018 - May 2018
Organization of the lecture “Introduction to Lie Groups” by Prof. Dr. A. Iozzi at ETH Zürich	Sep 2017 - Dec 2017
Organization of the lecture “Analysis II (D-BAUG)” by Dr. M. Akka Ginosar at ETH Zürich	Feb 2017 - May 2017
Organization of the lecture “Analysis I (D-BAUG)” by Dr. M. Akka Ginosar at ETH Zürich	Sep 2016 - Dec 2016

Teaching Assistantships

Teaching assistant for the lecture “Topology” by Prof. Dr. A. Carlotto at ETH Zürich	Feb 2020 - May 2020
Teaching assistant for the lecture “Symmetric Spaces” by Prof. Dr. A. Iozzi at ETH Zürich	Feb 2018 - May 2018
Teaching assistant for the lecture “Introduction to Lie Groups” by Prof. Dr. A. Iozzi at ETH Zürich	Sep 2017 - Dec 2017
Teaching assistant for “Differential Geometry I” by Prof. Dr. A. Wienhard at the University of Heidelberg	Apr 2014 - Aug 2014
Teaching assistant for “Höhere Mathematik für Physiker 2” at the University of Heidelberg	Oct 2012 - Jan 2013

Computer related skills

Assistant scientist at the Heidelberg Collaboratory for Image Processing	Mar 2011 - Dec 2011
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Languages: Mathematica, Python, HTML/CSS, Javascript, C/C++, Java.

Miscellaneous

Taking notes for the lecture “Geometric and Topological Aspects of Coxeter Groups and Buildings” by Dr. Anne Thomas at ETH Zürich; the book with the same title ¹ is based on these preliminary notes	Feb 2016 - May 2016
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¹“Geometric and Topological Aspects of Coxeter Groups and Buildings” by Dr. Anne Thomas, ISBN print 978-3-03719-189-7, ISBN online 978-3-03719-689-2, DOI 10.4171/189

Talks

<i>The Parreau-Compactification (Part 2)</i> in Graduate Student Seminar at MSRI (Berkeley, USA)	Nov 2019
<i>The Parreau-Compactification (Part 1)</i> in Graduate Student Seminar at MSRI (Berkeley, USA)	Nov 2019
<i>The IRS compactification of Moduli Space</i> , Lightning talk (Ventotene, Italy)	Sep 2019
<i>What is... the Chabauty space?</i> in the student geometry seminar at ETH Zürich	May 2017
<i>Fun with Fuchsian groups</i> in the student geometry seminar at ETH Zürich	Dec 2016
<i>On Volume Rigidity of Lattices</i> in the master's seminar by Prof. Dr. A. Wienhard at the University of Heidelberg	Dec 2015
<i>Minkowski's Theorem</i> in the student seminar "Harmonische Analyse" by Prof. Dr. W. Beiglböck and Prof. Dr. M. Leinert at the University of Heidelberg	Jul 2015
<i>Representations of Compact Groups</i> in the student seminar "Lie Algebras" by Dr. A. Peon-Nieto at the University of Heidelberg	Feb 2015
<i>Einstein Field Equations</i> in the student seminar "Mathematical Methods in Physics" by Prof. Dr. R. Weissauer at the University of Heidelberg	Jul 2014
<i>Kernelization II</i> in the student seminar "Parametrized Complexity" by Priv.-Doz. Dr. W. Merkle at the University of Heidelberg	Aug 2013
<i>Fenchel-Nielsen Koordinaten auf Teichmüllerräumen</i> in the bachelor seminar by Prof. Dr. W. Kohnen at the University of Heidelberg	Dec 2012
<i>Der Fundamentalbereich und seine Kompaktifizierung</i> in the student seminar "Modular Forms" by Dr. Eric Hofmann at the University of Heidelberg	Jul 2012

Homotopie von Kurven in the student seminar “Riemann surfaces” by Dr. Eric Hofmann at the University of Heidelberg

Jan 2012

Euler-Maclaurin formula in the student seminar “Analysis (for very good beginners)” by Prof. Dr. Dr. hc. R. Rannacher at the University of Heidelberg

Mar 2011

Languages

- German: native
- English: fluent
- French: beginner level