

# Manuel Luethi

Institute of Mathematics  
EPFL  
Station 8  
1015 Lausanne

manuel.luethi (at) epfl.ch  
<https://manuelluethi.github.io>

<b>PERSONAL DATA</b>	Place and date of birth: Zürich (Switzerland), May 31, 1984 Language skills: German (native), English (fluent), French (proficient) Marital status: married Children: *February 14, 2021 and *October 18, 2023 Citizenship: Swiss citizen
<b>EDUCATION</b>	<b>PhD in Mathematics</b> , ETHZ 2015–2019 <i>Thesis:</i> Some Applications of Rigidity of Higher Rank Diagonalizable Actions to Number Theory <i>Advisor:</i> Prof. Manfred Einsiedler <b>MSc in Mathematics</b> , ETHZ 2011–2014 <i>Thesis:</i> On a Relative Fixed Point Property <i>Supervisor:</i> Prof. Marc Burger <b>BSc in Mathematics</b> , ETHZ 2008–2012 <i>Thesis:</i> Effective Decay of Matrix Coefficients for $SL_d(\mathbb{Q}_p)$ <i>Supervisors:</i> Prof. Manfred Einsiedler, Uri Shapira <b>BA in Business &amp; Economics</b> , Universität Basel 2004–2007
<b>RECENT OCCUPATIONS</b>	<b>Collaborateur scientifique</b> , EPFL, Lausanne, Switzerland 2021–today <i>With Prof. Philippe Michel</i> <b>Postdoctoral Fellow</b> , TAU, Tel Aviv, Israel 2019–2021 <i>With Prof. Barak Weiss</i> <b>Assistant / PhD student</b> , ETHZ, Zürich, Switzerland 2015–2019 <b>SNSF Fellow</b> , HUJI, Jerusalem, Israel Oct. 2018–Mar. 2019 <i>Invited by Prof. Elon Lindenstrauss</i> <b>Quantitative Analyst</b> , RSN AG, Zürich, Switzerland 2013–2015 <i>Areas concepts, models and algorithms</i>
<b>RESEARCH INTERESTS</b>	Homogeneous dynamics, measure rigidity, sparse equidistribution, Diophantine approximation, number theory
<b>GRANTS AND RESEARCH STAYS</b>	<ul style="list-style-type: none"><li>• <i>Hausdorff Institute for Mathematics</i>, Bonn, Feb. 2020–Mar. 2020 attending the program “Dynamics: Topology and Numbers”.</li><li>• <i>Hebrew University of Jerusalem</i>, Jerusalem, Oct. 2018–Mar. 2019 SNSF Doc.Mobility fellowship, grant no. 181725.</li></ul>
<b>TEACHING EXPERIENCE</b>	<ul style="list-style-type: none"><li>• At EPFL:<ul style="list-style-type: none"><li>- Assistant <i>Lie groups</i> Spring 2024</li><li>- Principal instructor <i>Algebraic Number Theory</i> Spring 2023</li></ul></li></ul>

- Principal instructor *Introduction to Analytic Number Theory*  
Joint with *Petru Constantinescu* Fall 2022
- Principal instructor *Algebraic Number Theory* Spring 2022
- Teaching assistant *Algèbre linéaire I* Fall 2021
- At ETHZ:
  - Instructor student seminar *Primes of the form  $x^2 + ny^2$*  Spring 2019  
Joint with *Menny Aka* and *Andreas Wieser*
  - Instructor student seminar *Homogeneous Dynamics and Counting Problems*  
Joint with *Andreas Wieser* Spring 2018
  - Assistant *Lineare Algebra I* and *Lineare Algebra II* for mathematicians  
and physicists Fall 2016–Spring 2018
  - Assistant *Unitary Representations of Lie Groups and Discrete Subgroups  
of Lie Groups* Spring 2016
  - Assistant *Introduction to Lie Groups* Fall 2015
  - Teaching assistant *Functional Analysis I* Spring 2015
- Supervision of multiple Bachelor projects at ETHZ and EPFL Since 2018

## INVITED TALKS

- *Distribution of Orbits: Arithmetics and Dynamics*, upcoming workshop, Flüeli-Ranft, Switzerland, July 2024.
- *Group Actions with Hyperbolicity and Measure Rigidity*, upcoming workshop, IHP, Paris, May 2024.
- *Group Actions, Geometry and Dynamics*, Yale University, New Haven, April 10, 2023.
- *Crosscurrents in number theory, analysis and geometry (2022)*, Paris 13, Paris, December 8, 2022.
- *Ergodic theory and dynamical systems*, Universität Zürich, Zürich, November 8, 2021.
- *Groups, Arithmetic and Algebraic Geometry Seminar*, EPFL, Lausanne, October 7, 2021.
- *Dynamics seminar*, HUJI, Jerusalem, June 15, 2021.
- *Number Theory Seminar*, TAU, Tel Aviv, May 7, 2020.
- *Dynamics on homogeneous spaces*, Hausdorff Research Institute for Mathematics, Bonn, March 18, 2020.
- *BGU Probability and Ergodic Theory seminar*, Ben Gurion University, Be'er Sheva, November 28, 2019.
- *Groups, Dynamics, and Related Topics*, Technion, Haifa, October 31, 2019.
- *ICTS conference – Smooth and homogeneous dynamics*, ICTS, Bangalore, October 2, 2019.
- *Groups & Dynamics*, HUJI, Jerusalem, March 14, 2019.
- *Groups, Dynamics and Related Topics*, Technion, Haifa, January 17, 2019.
- *Ergodic Theory / Probability Seminar*, The Ohio State University, Columbus (Ohio), October 9, 2018.
- *Dynamics Working Seminar*, ETHZ, Zürich, September 27, 2018.
- *5th Workshop on Operator Theoretic Aspects of Ergodic Theory*, Eberhard Karls Universität Tübingen, Tübingen, November 17, 2017.
- *Groups and Analysis*, Université de Neuchâtel, Neuchâtel, March 3, 2015.