

Andreas Wieser

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EDUCATION	PhD in Mathematics , ETH Zurich <i>Advisors: Menny Aka, Manfred Einsiedler</i>	2016 – 2021
	MSc in Mathematics , ETH Zurich <i>Graduated with distinction, GPA 6/6</i> Thesis: <i>Linnik's problems: An ergodic theoretic proof of two equidistribution results</i> supervised by Manfred Einsiedler	2016
	BSc in Mathematics , ETH Zurich <i>GPA: 5.57/6</i>	2014
	BSc in Physics , ETH Zurich <i>GPA: 5.04/6</i>	2013
POSITIONS	Postdoctoral Fellow , Jerusalem <i>Einstein Institute of Mathematics, Hebrew University, with Elon Lindenstrauss</i>	2021–2023
RESEARCH VISITS	Northwestern University , Evanston <i>Visiting Predoctoral Fellow, invited by Ilya Khayutin.</i>	Oct. 2020 – March 2021
	Hausdorff Institute of Mathematics , Bonn <i>Attending the program 'Dynamics: Topology and Numbers'.</i>	Jan. 2020 – March 2020
PAPERS	<ol style="list-style-type: none">1. A. Wieser, <i>Linnik's problems and maximal entropy methods</i>. Monatsh. Math. 190(1):153-208, 2019. Link.2. M. Aka, M. Einsiedler, A. Wieser, <i>Planes in four space and four associated CM points</i>, Duke Math. J. 171(7) 1469-1529, 2022. Link.3. M. Aka, M. Luethi, Ph. Michel, A. Wieser, <i>Simultaneous supersingular reductions of CM elliptic curves</i>. J. Reine Angew. Math 2022(786) 1-43, 2022. Link.4. M. Aka, A. Musso, A. Wieser, <i>Equidistribution of rational subspaces and their shapes</i>, submitted. arXiv:2103.05163, 2021. Link5. A. Wieser, P. Yang, <i>A uniform Linnik basic lemma and entropy bounds</i>, submitted. arXiv:2201.05380, 2022. Link6. O. Solan, A. Wieser, <i>Birkhoff genericity for points on curves in expanded horospheres</i>. In preparation.	
AWARDS	<ul style="list-style-type: none">• <i>SNSF</i> mobility fellowship, Swiss National Science Foundation• <i>ETH medal</i> for outstanding master thesis,• <i>Willi Studer prize</i> for best graduate in 2016,	2020–2021 2016 2016
REFEREE	IMRN, Commentarii Mathematici Helvetici, Journal of the London Mathematical Society, Pure and Applied Mathematics Quarterly, Quarterly Journal of Mathematics	

TALKS

- *Ergodic Theory and Dynamical Systems Seminar*, Zurich, 10. October 2022.
- *Dynamics Seminar*, Hebrew University, 22. March 2022.
- *PET Seminar*, Ben-Gurion University, 16. December 2021.
- *Midrasha on Groups*, Weizmann Institute, 13. December 2021.
- *Groups and Dynamics*, Tel Aviv, 18. November 2021.
- *Expanding Dynamics X*, Zoom, 23. March 2021. [Link](#)
- *Zoom Dynamical Systems Seminar*, Penn State, 23. February 2021. [Abstract](#)
- *Midwest Dynamics and Group Actions Seminar*, Zoom, 23. November 2020.
- *Geometry Graduate Colloquium*, Zürich, 08. October, 2020.
- *ICTS conference – Smooth and homogeneous dynamics*, Bangalore, 30. September 2019. [Video](#).
- *Zurich graduate colloquium*, Zürich, 06. November 2018.
- *ETDS morning seminar*, Zürich, 25. October 2018.
- *5th Workshop on Operator Theoretic Aspects of Ergodic Theory*, Tübingen, 17. November 2017.

ATTENDED CONFERENCES AND WORKSHOPS

- *Dynamics week in Jerusalem*. Hebrew University, July 2022.
- *Ergodic geometry, number theory and Margulis legacy: the next generation*. University of Chicago, June 2022.
- *Arithmetic, geometry, and modular forms: a conference in honor of Bill Duke*. ETH Zurich, June 2019.
- *Number Theory and Dynamics*. University of Cambridge, March 2019.
- *Dynamics: Topology and Numbers*. Max Planck Institute for Mathematics (Bonn), July 2018. [Link](#).
- *New Methods for Zimmer's Conjecture*. IPAM (UCLA), January 2018. [Link](#).
- *Ergodic Theory: Numbers, Fractals, and Geometry*. Clay research workshop, Clay Mathematics Institute (Oxford), September 2017. [Link](#).
- *4th Workshop on Operator Theoretic Aspects of Ergodic Theory*. Feldkirch, May 2017.
- *Distinguished Lectures in Dynamics*. Tata Institute of Fundamental Research (Mumbai), April 2017. [Link](#).
- *Applications of Ergodic Theory in Number Theory*. CIRM doctoral school (Luminy), October 2016.

LECTURE NOTES

Analysis I/II with Manfred Einsiedler, in German, available [here](#).

These are extensive lecture notes for the first year course in analysis at ETH Zurich. They were written and used in the academic years 2016-2017 and 2017-2018.

TEACHING

- Organizing student seminars:
 - *Functional Analysis III, Unitary Representations*, with M. Einsiedler, Fall 2019.
 - *Primes of the form $x^2 + ny^2$* , with M. Aka and M. Lüthi, Spring 2019.
 - *Counting problems and homogeneous dynamics*, with M. Einsiedler and M. Lüthi, Spring 2018. [Link](#).
 - The teaching concept for this seminar is described in detail in the article M. Luethi, A. Wieser, Self-assessment in undergraduate student seminars in mathematics, ETH Learning and Teaching Journal 2(1):49-57, 2020. [Link](#).*
 - *Arithmetic of quadratic forms*, with M. Aka, Spring 2017. [Link](#).
- Teaching assistant:
 - *Functional Analysis II*, taught by M. Einsiedler, Spring 2019. [Link](#).
 - *Functional Analysis I*, taught by M. Einsiedler, Fall 2018. [Link](#).
- Exercise classes: Commutative Algebra (Fall 2019). As an undergraduate: Complex Analysis, Topology, Linear Algebra II, Methods of Mathematical Physics.

SUPERVISED STUDENTS

- Andrea Musso, *Equidistribution of rational subspaces and their shapes*
Master thesis advised jointly with M. Aka,
A.M. received Willi Studer prize 2020
- René Pfitscher, *Lattices, quantitative non-divergence, and some finiteness properties of adèle groups*
Bachelor thesis advised jointly with M. Einsiedler 2020
- Horace Chaix, *Eskin, Rudnick and Sarnak's proof of Siegel's weight formula*
Master thesis advised jointly with M. Einsiedler 2020
- Muriel Egli, *Equidistribution of planes in the matrix algebra*
Master thesis advised jointly with M. Aka 2019

LANGUAGES

German – native speaker
Italian – native speaker
English – fluent
French – intermediate