

Lauritz Streck

University of Edinburgh. LSTRECK@ed.ac.uk.

Education

University of Edinburgh <i>Gordon Seggie Brown Fellow</i> Postdoctoral Position.	Edinburgh, UK 2024-2027
University of Cambridge <i>PhD in Mathematics</i> Title: On the Fourier decay and the dimension of self-similar measures. Advisor: Péter Varjú.	Cambridge, UK 2020-2024
Hebrew University <i>MSc Mathematics</i> <i>Master's thesis</i> : Non-concentration of primes along horocycle orbits in $\Gamma \backslash PSL_2(\mathbb{R})$. Advisor: Tamar Ziegler.	Jerusalem, Israel 2018-2020
Rheinische Friedrich-Wilhelms-Universität <i>BSc Mathematics</i> <i>Bachelor's Thesis (2017)</i> : On the Delta Calculus. Advisor: Christoph Thiele.	Bonn, Germany 2014-2018

Publications

- On absolute continuity and maximal Garsia entropy for self-similar measures with algebraic contraction ratio. *To appear in*: Mathematical Proceedings of the Cambridge Philosophical Society.
- Non-Concentration of Primes in $\Gamma \backslash PSL_2(\mathbb{R})$. *To appear in*: Israel Journal of Mathematics.
- On equidistribution of polynomial sequences in quotients of $PSL_2(\mathbb{R})$. *To appear in*: Ergodic Theory and Dynamical Systems.
- Low-degree learning and the metric entropy of polynomials (with A. Eskenazis and P. Ivanisvili). *Discrete Analysis*, November 2023.

Invited Talks

Entropy Rates in Fractal Geometry (1h) <i>University of Warwick, UK</i> Dynamics and Group Geometry Early Researchers Seminar	<i>February 2023</i>
Entropy Rates in Fractal Geometry (30 min) <i>Oberwolfach, Germany</i> Oberwolfach workshop 2323: Incidence Problems in Harmonic Analysis, Geometric Measure Theory, and Ergodic Theory	<i>June 2023</i>
On the Fourier decay of inhomogeneous self-similar measures (1h) <i>Manchester, UK</i> Dynamical Systems, Number Theory, and Quantum Chaos: New connections and directions	<i>September 2024</i>
The dimension of random subsets of Cantor sets defined by tree branching (1h) <i>Edinburgh, UK</i> Analysis Seminar	<i>October 2024</i>
Sparse Equidistribution of horocycle orbits on quotients of $PSL_2(\mathbb{R})$ (1h) <i>York, UK</i> Number Theory Seminar	<i>April 2025</i>
Sparse Equidistribution of horocycle orbits on quotients of $PSL_2(\mathbb{R})$ (1h) <i>Warwick, UK</i> Analysis Seminar	<i>May 2025</i>