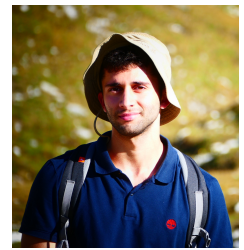


Yuval Yifrach

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Employment

Post-Doc position at University of Zurich under the guidance of Prof. Alex Gorodnik 2024-present

Education

Ph.D., Technion - Israel Institute of Technology, Department of Mathematics 2020-2024

Advisor: Uri Shapira

Current GPA: 96.7/100

M.Sc., Technion - Israel Institute of Technology, Department of Mathematics 2018-2020

Advisor: Emanuel Milman

Thesis title: Regular Random Sections of Convex Bodies and the Random Quotient-of-Subspace Theorem

GPA: 93.3/100, Thesis Grade: 94/100,

B.Sc., Technion - Israel Institute of Technology, Department of Mathematics 2015-2018

GPA: 92.5/100

Papers

- E. Milman and Y. Yifrach. "Random Sections of Convex Bodies and the Random Quotient-of-Subspace Theorem". *J. Func. Anal.* 281 (7) 109133, 2021.
- Y. Yifrach. "A Note about Weyl Equidistribution Theorem" Preprint arXiv:2201.07138(2022), accepted to *Monatshefte für Mathematik*.
- Y. Yifrach. "The Equidistribution of Grids of Rings of Integers in Number Fields of Degrees 3,4 and 5." Preprint arXiv:2201.10942(2022), submitted.
- O.N. Solan and Y. Yifrach. "Tori Approximation of Families of Diagonally Invariant Measures" *Geom. Funct. Anal.* (2023). <https://doi.org/10.1007/s00039-023-00646-7>
- G. Lachman, A. Rao, U. Shapira and Y. Yifrach. " k -Divergent Lattices" Preprint <https://arxiv.org/abs/2307.09054>, submitted.
- Y. Yifrach. "Rigidity in a Fixed Number Field and a Directional p -Adic Littlewood Conjecture for Algebraic Vectors." Preprint arXiv: 2501.04430(2025).

Presentations & Posters

- April 2024, " k -Divergence", Geometry Graduate Colloquium, ETH, Zürich.
- April 2024, "Directional p -adic Littlewood for algebraic vectors" Paris, Université de Paris XIII.
- July 2024, "Distribution of orbits: Arithmetics and Dynamics" Conference, Paxmontana: "Rigidity Properties of Tori Measures in a Fixed Number Field".

- March 2024, "Diagonal actions in the space of lattices" Workshop, Paris: "Approximation of Diagonally Invariant Measures by Tori Measures".
- February 2024, Midrasha Seminar, Weizmann Institute: "Approximation of Diagonally Invariant Measures by Tori Measures".
- January 2024, Group Actions, Geometry and Dynamics seminar, Yale University: "Approximation of Diagonally Invariant Measures by Tori Measures".
- January 2024, Group Actions, Geometry and Dynamics seminar, Brandeis University: "Approximation of Diagonally Invariant Measures by Tori Measures".
- January 2024, Group Actions, Geometry and Dynamics seminar, Ohio State University: "Approximation of Diagonally Invariant Measures by Tori Measures".
- November 2023, Ergodic theory and dynamical systems seminar, University of Zurich: "Non Algebraic Versions of the p -Adic Littlewood Conjecture and of Duke's Theorem for Subcollections".
- October 2023, New England Dynamics and Number Theory Seminar, Zoom: "A Variation on the p -Adic Littlewood Conjecture".
- June 2023, PET Seminar, Ben-Gurion University: "Tori Approximation of Diagonally Invariant Measures".
- April 2023, Group, Dynamics and Related Topics Seminar, Technion: "Tori Approximation of Diagonally Invariant Measures".
- February 2023, Diophantine Approximation conference mini-workshop, Technion: "Equidistribution of Grids of Rings of integer in ranks 3,4,5".
- January 2023, Poster at Jacobs Research Day, Technion: "Number Theoretic Dynamics is Rich!".
- December 2022, Dynamics Seminar at HUJI: "The Equidistribution of Grids of Rings of Integers in Number Fields of Degrees 3,4 and 5".
- September 2022, IMU Students Day at BGU University: "The Equidistribution of Grids of Rings of Integers in Number Fields of Degrees 3,4 and 5."
- June, 2022, Group, Dynamics and Related Topics Seminar, Technion: "Multidimensional Weyl Theorem".
- April 2022, Talk at "Introduction to Research Day", Technion: "Understanding Algebra using Probability".
- April 2022, Group, Dynamics and Related Topics Seminar, Technion: "On Grids Corresponding to Number Fields, their Distribution, and a Generalized Weyl Theorem".
- March 2022, Bar-Ilan Algebra Seminar: "On Grids Corresponding to Number Fields, their Distribution, and a Generalized Weyl Theorem".
- May 2021, AGA Seminar Tel-Aviv University: "Regular Random Sections of Convex Bodies and the Random Quotient-of-Subspace Theorem".

Teaching Experience

- | | |
|---|-------------|
| • Complex Analysis, Technion - Israel Institute of Technology | Spring 2024 |
| • Mentoring Technion-China summer projects Technion - Israel Institute of Technology | Summer 2023 |
| • Complex Analysis, Technion - Israel Institute of Technology | Spring 2023 |
| • Set Theory, Technion - Israel Institute of Technology | Spring 2022 |
| • Real Analysis, Technion - Israel Institute of Technology | Winter 2021 |
| • Complex Analysis, Technion - Israel Institute of Technology | Spring 2020 |
| • Calculus 2, Technion - Israel Institute of Technology | Winter 2020 |
| • Teaching Calculus 2 in a student union program, Technion - Israel Institute of Technology | Winter 2019 |
| • Teaching and mentoring math to underrepresented groups, Technion - Israel Institute of Technology | Ongoing |

Awards & Honors

- Gutwirth Excellence Scholarship 2022
- Dean Excellency during B.Sc studies 2018
- President Excellency during B.Sc studies 2017

Languages

Hebrew (mother tongue), English (fluent), German (partial).

Interests

Long distance running, weightlifting, chess.