

Rei Henigman

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Education

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| 2024 - Present | Ph.D. in pure mathematics in Tel Aviv University. |
| 2021 - 2024 | M.Sc. in pure mathematics in Tel Aviv University (GPA 99). |
| 2017 - 2021 | B.Sc. in pure mathematics in Tel Aviv University (GPA 95). |

Papers/Preprints

- Maximal symplectic torus actions, *Bulletin of the London Mathematical Society*, 2025.
- Classification of symplectic non-Hamiltonian circle actions on 4-manifolds, submitted.
- Symplectic torus actions with non-contractible orbits (with Yael Karshon), preprint.

Awards

- Certificate of Excellence for mathematics Ph.D. students in Tel Aviv University, 2025.
- “*Final*” Scholarship for excellent students in Israel, 2024.
- Israel Mathematical Union Student Talk Award, 2024.
- Certificate of Excellence for mathematics M.Sc. students in Tel Aviv University, 2023.
- Schneider’s Wall of Thanks, 2020 and 2021, security vulnerability disclosure.
- Honeywell’s Product Security Acknowledgement, security vulnerability disclosure.
- Silver Medal in the International Physics Olympiad 2014.
- Bronze Medal in the Asian Physics Olympiad 2014.

Talks

- Geometry and Topology Summer School, Weizmann Institute, 2026.
- Geometry and Dynamics seminar, Tel Aviv University, 2026.
- Geometry and Topology seminar, Oregon State University, 2025.
- Israel Mathematical Union students day, Bar-Ilan University, 2025.
- Geometry and Dynamics seminar, Tel Aviv University, 2025.
- Israel Mathematical Union students day, Weizmann Institute of Science, 2024.
- Workshop on Hamiltonian Geometry and Quantization, Fields Institute, Toronto, 2024.
- Hamiltonian Group Actions seminar, Haifa University, 2024.

Conferences/Seminars

- Participated in Geometry and Topology Summer School, Weizmann Institute, 2026.
- Participated in Symplectic Topology, Hamiltonian Dynamics, and Persistence Structures Conference, ETH Zürich, 2026.
- Participated in Workshop on Hamiltonian Geometry and Quantization, Fields Institute, Toronto, 2024.
- Co-organized joint Tel Aviv University-Haifa University seminar titled "Hamiltonian Group Actions seminar", 2024.
- Participated in Workshop on Lie Groups, Singular Spaces, and Higher Structures, Fields Institute, Toronto, 2023.

Volunteer Work

2014 - Present – Training Israeli students for the International Physics Olympiad.

2014 - 2016 – Mentoring high-school students for robotics competitions.

Employment

2025 - Present – Teaching Assistant at **Tel Aviv University**, teaching Calculus 1B and Calculus 2B.

2021 - 2024 – Software Engineer at **StarkWare Industries**: specializing in STARK proof systems, provable programming languages, and backend development. (part-time).

2019 - 2021 – Cyber Security Researcher at **Claroty**: specializing in reverse engineering of industrial communication protocols. Disclosed 9 vulnerabilities. (part-time).

2018 - 2019 – Cyber Security Researcher at **Sentrycs**: specializing in reverse engineering of encryptions and error control codes. (part-time).

2015 - 2018 – Technological Researcher at **Unit 8200**. Taught mathematics in several courses and oversaw recruiting. (full-time).