

# Rei Henigman

**Email:** rei.henigman@gmail.com

**Phone:** +972-506-388805

## Education

- |                       |  |
|-----------------------|--|
| <b>2024 - Present</b> | Ph.D. in pure mathematics in Tel Aviv University.          |
| <b>2021 - 2024</b>    | M.Sc. in pure mathematics in Tel Aviv University (GPA 99). |
| <b>2017 - 2021</b>    | 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), in preparation.

## 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 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 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 **Clarity**: 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).