

# Ilay Wischnevsky Shlush

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## EDUCATION

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### Tel Aviv University

Tel Aviv

Bsc. Student (Physics and Engineering Degree)

Jan 2024

- Relevant Coursework: Real Analysis 1 (98), Classical Physics 1 (100), Mathematical Intro. for Physicists (100), Linear Algebra 1 (96).

### HEMDA Schwartz-Reisman Science Education Center

Tel Aviv

Physics Major, [Excellence Class](#)

Jun 2023 | BAGRUT: 100/100

- Selected for an Advanced Excellence Program
- Relevant Coursework: Special Relativity, Intro. to General Relativity, Intro. to Quantum Mechanics.

[Computational Science Major](#)

Jun 2023 | BAGRUT: 100/100

Relevant Coursework: Python (Matplotlib, Numpy), Differential Equations, Machine Learning

### Herzliya Hebrew Gymnasium High School

Tel Aviv

Mechatronics Major;

Jun 2023 | BAGRUT: 100/100

- Relevant Coursework: Arduino Programming, Electrical Circuits, Algorithm Development, Project Management

Other: SAT 1490

## WORK EXPERIENCE

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### Waves Audio ([Waves](#))

Tel Aviv

Research Assistant, Software Developer (Intern)

Jun 2021 - Dec 2021

- Conducted measurements on earphones to test acoustic properties (temperature's effect on resonance)
- Analyzed Data
- Developed python code automizing the measurement system

## ACTIVITIES

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### Talat - "Students for Students"

Co-founder, Teacher

- Helped found an afterschool program where students volunteer as community work
- Taught and mentored students in physics and math

## PROJECTS

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### 8080

- Engineered and programmed an automatic acoustic drum set using Arduino

### Light Curve Inversion

- Programmed a neural network aiming to reconstruct 3D asteroid shapes only from their lightcurves

### Wave Motion in a Non-Uniform Medium

- Simulated waves as they propagate through different non-uniform mediums

### Spontaneous Synchronization of Fireflies

- Built a model to study the factors affecting the synchronization of fireflies

### Exploit (Game)

- Created a game in Godot as a part of the Godot Wild Jam
- Won 3rd place in an international coding hackathon