

Vojtěch Votruba

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EDUCATION

- **Charles University, Prague:** *B.Sc. in Physics (2022 - Present)*
 - Consistently awarded merit scholarships each semester.
- **Johannes Kepler Grammar School, Prague:** *High School Diploma (2018 - 2022)*
 - Graduated with honors in Czech, Mathematics, Physics, and English.

WORK EXPERIENCE

- **ELI Beamlines:** *Internship (6 months, 2024):*
 - Developed Python simulations for laser beam propagation in plasma wakefield acceleration experiments.
- **Department of Atmospheric Physics, CUNI:** *Internship (6 months, 2023)*
 - Contributed to the Department's numerical Fortran code by implementing a new method accounting for subgrid-scale turbulence.
- **Broadcom Inc.:** *High School Internship (1 week, 2019)*
 - Web app development using Django.

SKILLS

- **Programming & Tools:** Python (advanced; good experience in NumPy, scikit-learn, PyTorch, matplotlib), JavaScript (basic level; some experience with npm and frontend frameworks), SQL (working knowledge of standard query operations), Git, L^AT_EX
- **Mathematics/Physics:** Strong foundation in Linear Algebra, Numerical Methods, and Real Analysis. Wide knowledge of Physics especially in Thermodynamics, and Analytical Mechanics.
- **Languages:** Czech (native), English (C2, certificate), French (low B1 level)

PROJECTS

- **Recognition of Dissipative Systems Using ML** [NumPy, PyTorch]: Physics-informed deep neural net using geometrical irreversible thermodynamics to predict the evolution of dissipative systems, e.g. chemical reactions. This project is a part of my undergraduate thesis. [GitHub link]
- **Personal Website** [AstroJS, TailwindCSS]: My personal website [vojtech-votruba.github.io]

INTERESTS

- Hiking, camping and recently hitchhiking; Reading and debating
- Board games and video games, especially chess
- Occasionally running and bouldering