

Lukass Kellijs

Profile

Hi, I am an undergraduate student at Yale University studying Applied Physics. I focus on using theoretical and computational methods—such as machine learning and physical modeling—for engineering research and development. I enjoy pursuing opportunities to practically learn and participate in scientific activities and enjoy creating such opportunities for others through volunteering in educational projects.



Education

Yale University

September 2023 — May 2027 (New Haven, USA)

Applied Physics (B.S.) '27 (GPA: 3.99/4.00)

Engineering High School of Riga Technical University

September 2020 — July 2023 (Riga, Latvia)

Details

Riga, Latvia / New Haven, USA

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Links

[LinkedIn](#)

[GitHub](#)

[Portfolio](#)

Skills

Python, ML (PyTorch), Data Analysis (NumPy, SciPy, Pandas), C++, Matlab, R, JavaScript, Electronics, Embedded Programming, CAD (Solidworks, Onshape), 3D Printing, Graphic Design, LaTeX

Interests

Deep Learning, Reinforcement Learning, Physics, Engineering, Inverse Design, Sensor Technologies, Robotics, Space, Earth and Planetary Sciences, Climate Sciences, Green Energy

Hobbies

Climbing, Basketball, Skiing, Snowboarding, Downhill Longboarding, Guitar, Reading.

Languages

Latvian

English

German

French

Achievements

- **International Physics Olympiad 2022, 2023** - Bronze Medal
- **European Physics Olympiad 2022** - Bronze Medal
- **Latvian National Physics Olympiad 2021, 2022, 2023** - 1st place
- **EU Contest for Young Scientists 2022** - Natural Biodiversity Award 2022
- **Nordic-Baltic Physics Olympiad 2022** - Silver Medal
- **Baltic States French Olympiad 2021** - Silver Medal

Relevant Coursework

MENG 1105 Mechanical Design

MENG 2050 Computer-Aided Engineering

S&DS 2380 Probability and Bayesian Statistics

PHYS 4300 Electromagnetic Fields and Optics

PHYS 4500 Thermodynamics and Statistical Mechanics

PHYS 4400 Quantum Mechanics I and II

S&DS 6890 Scientific Machine Learning (Graduate)

ENV 5940 Global Carbon Cycle (Graduate, Audit)

CPSC 4520 Deep Learning Theory and Applications

CPSC 5710 Trustworthy Deep Learning (Graduate)