

# Krystof Latka

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## EDUCATION

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### University of California, Los Angeles (UCLA)

Los Angeles, CA

*Bachelor of Science, Computer Engineering*

*Expected June 2026*

- Notable coursework in progress: Linear Algebra, Data Structures and Algorithms
- Notable coursework to be completed by the end of first year: Multivariable Calculus, Computer Organization
- Clubs and societies: ACM at UCLA (Hack, AI, and ICPC committees)

### PORG - gymnázium a základní škola

Prague, Czech Republic

*International Baccalaureate Diploma*

*June 2022*

- IB Subjects: Mathematics Analysis and Approaches HL, Physics HL, Chemistry HL, Economics HL, English A Language and Literature SL, Spanish B SL
- Overall grade: 44/45 IB points

## EXPERIENCE

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### Research Assistant

July 2021

*Department of Mechanics, Czech Technical University*

*Prague, Czech Republic*

- Conducted research on microstructure reconstruction via artificial neural networks in TensorFlow
- Evaluated the impacts of different configurations of the neural network on the model's predictive abilities
- Presented research results at the "Nano and Micro Mechanics 2021" conference for doctoral students

### Intern

June 2021 - July 2021

*Computational Robotics Laboratory, Czech Technical University*

*Prague, Czech Republic*

- Post-processed data recorded at a field trip with various autonomous robots
- Utilized the Rospý library to write Python scripts and used them to extract desired data from Robot Operating System (ROS) files
- Investigated the strength of radio signal between the robot and the receiver at various points in time

## LEADERSHIP AND SERVICE

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### Chief App Developer

September 2020 - Present

*Vervit*

*Prague, Czech Republic*

- Student non-profit, providing technological help to senior citizens in Czechia, primarily through videos on YouTube
- Develop a mobile application, freely available on [iOS](#) and [Android](#)

### Captain of Programmers

August 2020 – June 2021

*R.U.R. Team #5996*

*Prague, Czech Republic*

- Lead the programming division of the only Czech FIRST Robotics Team
- Coordinated the development of robot code

### Vice-President and Co-Founder

January 2020 – June 2022

*Nový PORG Investment Society*

*Prague, Czech Republic*

- Raised financial awareness among students by publishing a weekly investment newsletter and organizing introductory lessons on investing
- Analyzed companies on the stock market and co-authored investment reports
- Qualified as the Region 4 Finalist of the Wharton Global High School Investment Competition 2020-21

## PUBLICATIONS

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**Latka, K., Doskar, M. and Zeman, J., 2021.** Microstructure reconstruction via artificial neural networks: A combination of causal and non-causal approach. [online] Available at: <https://doi.org/10.14311/APP.2022.34.0032>

## TECHNICAL SKILLS

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**Languages:** Python, C++, Java, Dart

**Frameworks:** Flutter, Git

**Developer Tools:** Visual Studio Code, Android Studio, Xcode

**Libraries:** TensorFlow, Keras, NumPy, Pillow, Rospý

**Other:** Microsoft Office, Autodesk Fusion 360, Tracker