Petr Hrubý

Born on February 19, 1997
Nationality: Czech
E-Mail: petr.hruby@inf.ethz.ch
Website: https://petrhruby97.github.io/

Research Interests: Computer Vision, Numerical Algebraic Geometry, Machine Learning

Work Experience

2021 – Present	**ETH Zürich** Research Assistant in the Computer Vision and Geometry group (CVG)
2017 – 2021	**CIIRC, Czech Technical University in Prague** Research Fellow in the Applied algebra and geometry group (AAG)

Education

2021 – Present	**ETH Zürich, Computer Vision and Geometry group** Supervised by Prof. Marc Pollefeys Expected graduation: September 2025
2019 – 2021	**Czech Technical University in Prague, Faculty of Electrical Engineering** Master's degree, Computer Vision and Digital Image GPA: 1.0 (1.0 best, 4.0 worst), Passed with distinction Thesis: Efficient Homotopy Continuation for Multi-View Geometry; Advisor: Assoc. Prof. Tomáš Pajdla
2016 – 2019	**Czech Technical University in Prague, Faculty of Electrical Engineering** Bachelor's degree, Computer and Information Science GPA: 1.06 (1.0 best, 4.0 worst), Passed with distinction Thesis: Two-Body Structure from Motion; Advisor: Assoc. Prof. Tomáš Pajdla

Publications

Vanishing Point Estimation in Uncalibrated Images with Prior Gravity Direction
R. Pautrat, S. Liu, P. Hruby, M. Pollefeys, D. Barath
ICCV 2023

Four-view geometry with unknown radial distortion
P. Hruby, V. Korotynskiy, T. Duff, L. Oeding, M. Pollefeys, T. Pajdla, V. Larsson
CVPR 2023

Learning to Solve Hard Minimal Problems
P. Hruby, T. Duff, A. Leykin, T. Pajdla
CVPR 2022, **Best Paper Award**

Skills

Languages: Czech (First language), English, German
Software: C/C++, MATLAB, Python, Macaulay 2
Others: Driver's License, Group B (Passenger car)

Honors and Awards

Best Paper Award, CVPR 2022
Czech Alpha Chapter of Upsilon Pi Epsilon, Member since February 2019
International Physics Olympiad, 2016, Zürich; Honourable Mention
Czech National Physics Olympiad, 2016, Bílovec; 5th Place