

Tobias Kohler



Contact

Tobias Kohler
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Bern, CH
<https://tobiluc.github.io>

Tools

- C++, Python, Java, JS, C, SQL, R
- Git, LaTeX, MS-Office, Unity, Godot, Blender

Publications

- 2025: *HexHex: Highspeed Extraction of Hexahedral Meshes*
SIGGRAPH'25, Vancouver CA

Honors

- 2025: *Faculty Award*
 - Awarded by the faculty of mathematics, statistics and computer science for the best Master's thesis.
- 2023: *JAACS Award*
 - Awarded by the joint alumni association of computer science for the best Bachelor's thesis.

Languages

- German (L1)
- English (C1)
- French (B1)

Experience

Programming Contest Coach SWERC 2025	Nov 2025
• Co-Organized the participation of two teams of the University of Bern at the Southwestern Europe Regional Contest in Lyon.	
Research Assistant (20-50%) Computer Graphics Group, University of Bern	Nov 2023 - Aug 2025
• Assistance with research work in the field of geometry processing and mesh generation.	
Teaching Assistant (15-30%) University of Bern	Feb 2021 - Aug 2024
• Correction of exercises and exams and leading weekly exercise sessions in various courses: Datastructures & Algorithms (DA), Fundamentals of Technical Computer Science (GTI), Databases (DB), Computability & Complexity (BK).	
Board Member of the Housing Cooperative "Bleiche"	2019 - 2025
• Regular participation in meetings and minute-taking.	
Civil Service Day School and School Worb	Aug 2018 - Jul 2019
Internship - Nursing Home tilia: Elfenau	Mar 2017
Tutor (occasional)	2017 - Present
• Maths, Computer Science, German and French	
Education	
PhD Computer Science Computer Graphics Group, University of Bern	Oct 2025 - 2029
• Working on 3D reconstruction.	
MSc Computer Science, specialized in Visual Computing University of Bern	Feb 2024 - Sep 2025
• Finished with an overall grade of 6.0 and an award for the Master's thesis: "General Shape Reconstruction from Point Clouds using 3D Parametrizations".	
BSc Computer Science University of Bern	Sep 2019 - Jan 2024
• Finished with an overall grade of 5.5 and an award for the Bachelor's thesis: "Fast Hexahedral Mesh Extraction from Locally Injective Integer-Grid Maps".	
Matura Gymnasium Kirchenfeld	Sep 2014 - Aug 2018
• Major Physics and Applications of Mathematics (PAM)	