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

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 Nov 2025
SWERC 2025, Lyon
- Co-organized the participation of two teams of the University of Bern at the Southwestern Europe Regional Contest in Lyon.

Research Assistant (20-50%) Nov 2023 - Aug 2025
Computer Graphics Group, University of Bern
- Assistance with research work in the field of geometry processing and mesh generation.

Teaching Assistant (15-30%) Feb 2021 - Aug 2024
University of Bern
- 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" Oct 2018 - Apr 2025
- Regular participation in meetings and minute-taking.

Civil Service Aug 2018 - Jul 2019
Day School and School Worb

Internship - Nursing Home Mar 2017
tilia: Elfenau

Tutor (occasional) 2017 - Present
- Maths, Computer Science, German and French

Education

PhD Computer Science (in progress) Oct 2025 - 2029
Computer Graphics Group, University of Bern
- Working on 3D reconstruction.

MSc Computer Science, specialized in Visual Computing Feb 2024 - Sep 2025
University of Bern
- 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 Sep 2019 - Jan 2024
University of Bern
- 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 Sep 2014 - Aug 2018
Gymnasium Kirchenfeld
- Major Physics and Applications of Mathematics (PAM)