

# 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

## 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.

## Experience

- Programming Contest Coach** Nov 2025  
SWERC 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%)** 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"** 2019 - 2025  
"Bleiche"
  - Regular participation in meetings and minute-taking.
- Civil Service** Sep 2018 - Aug 2019  
Day School and School Work
- Internship - Nursing Home** Mar 2017  
tilia: Elfenau
  - Maths, Computer Science, German and French
- Tutor (occasional)** 2017 - Present
  - Maths, Computer Science, German and French
- Education**
- PhD Computer Science** Oct 2025 - 2029  
Computer Graphics Group, University of Bern
  - Working on 3D reconstruction.
- MSc Computer Science, specialized in Visual Computing** Feb 2024 - Sep 2025

## Languages

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

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)