

# Tobias Kohler



## Contact

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Schulhausstrasse 34,  
3076 Worb

[tobias.kohler@unibe.ch](mailto:tobias.kohler@unibe.ch)

<https://tobiluc.github.io>

## Tools

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

## Publications

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- 2025: *HexHex: Highspeed Extraction of Hexahedral Meshes*  
SIGGRAPH

## Honors

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- 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

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## Experience

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### **Programming Contest Coach**

Nov 2025

SWERC 2025

### **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

- Regular participation in meetings and minute-taking.

### **Civil Service**

Sep 2018 - Aug 2019

Day School and School Worb

### **Internship - Nursing Home**

Mar 2017

tilia: Elfenau

### **Tutor (occasional)**

2017 - Present

- Maths, Computer Science, German and French

## Education

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### **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

University of Bern

- Finished with an overall grade of 6.0 and an award for the Master's thesis: "General Shape Reconstruction"

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

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)