

# Curriculum vitae

Name: Luca Heim  
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Date of Birth: 15.01.1998



## Education

Since 11/2024 **PhD candidate** at the TU Wien in the IBD Group of Prof. Oliver Spadiut

04/2022 – 08/2024 **Master's Degree: Bioengineering**  
Karlsruhe Institute of Technology

- Master Thesis:  
„Process development and monitoring of a dual-stage cross-flow filtration for virus-like particle redissolution”

10/2023 – 02/2024 **Semester abroad** at Loughborough University

10/2018 – 09/2021 **Bachelor's Degree: Bioengineering**  
Karlsruhe Institute of Technology

- Bachelor Thesis:  
„Development of an aerogel supported Pd/TiO<sub>2</sub> catalyst system for photocatalytic water splitting”

## Professional Career

12/2022 – 09/2023 **Student assistant, Hydrogen production with *P. thermoglucosidasius*, Karlsruhe Institute of Technology**

01/2022 – 07/2022 **Internship, Product Coordination & Transfer, Boehringer Ingelheim**

04/2020 – 09/2021 **Student Assistant, Computational Fluid Dynamics, Karlsruhe Institute of Technology**

10/2018 – 07/2021 **Tutor, Computer Science, Karlsruhe Institute of Technology**

## Skills

Computer literacy: Microsoft Office, Aspen, Autodesk Inventor, Unity, Python, C++, MATLAB

Languages: German (native)  
English (C1)

## Publications

Jeßberger, J.; Marquardt, J.E.; **Heim, L.**; Mangold, J.; Bukreev, F.; Krause, M.J. Optimization of a Micromixer with Automatic Differentiation. *Fluids* 2022, 7, 144. <https://doi.org/10.3390/fluids7050144>