

# Lorenz Roland Heiler

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## EDUCATION

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- Imperial College London** London, United Kingdom  
Sep. 2024 – Sep. 2025
- MSc in Advanced Computing
  - Courses: Scalable Systems and Data, Reinforcement Learning, Computational Neurodynamics, Computer Vision, Deep Learning, Robot Learning, Software Engineering for Machine Learning Systems, Deep Graph-Based Learning, Non-Euclidean Methods in Machine Learning
- ETH Zürich** Zurich, Switzerland  
Sep. 2020 – Jul. 2024
- BSc in Computer Science
  - Average of 4.86/6.0
- Hong Kong University of Science and Technology** Hong Kong  
Feb. – Jun. 2023
- Exchange semester
  - Courses: Principles of Cybersecurity, Quantum Information, Game Programming
- Johannes-Kepler-Gymnasium** Leonberg, Germany  
2011-2019
- Abitur (G8), focus on Math, Physics, Economics, English and German

## RESEARCH EXPERIENCE

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- ETH Zürich** Sep. 2023 – Mar. 2024  
*Bachelor thesis – with Arbre Labs and Computer Graphics Lab*
- Overseen by Prof. Markus Gross and supervised by Dr Endri Dibra and Dr Beren Kaul
  - Title: *Image to Image alignment with 3D priors*
  - Implementing a pipeline for the alignment of before and after pictures, comparing and using state-of-the-art models for various topics, e.g. Illumination matching, 3D face reconstruction, etc.
- Imperial College London** April. 2025 – Sept. 2025  
*Master thesis – Computational Neuroscience*
- Supervised by Dr. Pedro Mediano and Dr. Gregory Scott
  - Title: *Evaluating Computational Brain Models as Dimensionality Reduction Methods for EEG*
  - Developed standardized pipelines for EEG preprocessing, benchmarking mechanistic and data-driven methods, and integrating hybrid deep learning approaches.

## PROFESSIONAL EXPERIENCE

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- [Katie](#) – Natural Language Processing** Zurich, Switzerland  
*Internship (fulltime)* Jun. 2023 – Aug. 2023
- Katie is an NLP startup, developing a chatbot for question-answering, while maintaining the privacy and security of its clients
  - Researched and created chunking algorithms for preprocessing and measured their impact on overall accuracy of the model
- [hmb partners AG](#) – Architecture company** Zurich, Switzerland  
*IT-specialist (ca. 10-15 hours a week)* Jan. 2022 – Feb. 2023
- Responsible for:
- Data management/backup
  - Compatibility checks for new software

## **SKILLS AND HOBBIES**

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**Languages:** Native in German, C1 in English (111 points in TOEFL iBT)

**Computer science knowledge:** fluent in Java, C, C++, Python, OCaml and good understanding of Swift app development, Unreal Engine, Github, Microsoft Office

**Hobbies:** Sport (Tennis, Gym), Music production (Ableton Live), Design, Art, Fashion