

MAX JAPPERT

PERSONAL PROFILE

A highly driven sound engineering student and artist with a successful background in Machine Learning and Computer Science. I hold an MSc with distinction from University College London (UCL) and maintain a keen interest in computational intelligence and emergent systems, in addition to a diverse work history, a broad set of abilities and strong interpersonal skills. Undergraduate studies in Philosophy, Anthropology, Mathematics and Computer Science culminating in a BSc and a thesis awarded the highest grade possible. My ambition is to apply interdisciplinary, potentially computational approaches to complex problems.

EDUCATION

Zurich University of the Arts (ZHdK) September 2024 - Ongoing

BA in Music

Extensive training in music theory, repertoire, performance and hearing ability.

University College London (UCL)

September 2023 - September 2024

MSc in Machine Learning

Attended modules taught by the Gatsby Computational Neuroscience Unit and Google Deep Mind

MSc Thesis on Deep Generative Audio Source Separation supervised by Dr. Brooks Paige

Overall grade: 75% (*distinction*)

University of Basel

September 2018 - July 2022

BSc in Computer Science

72 ECTS in Philosophy and Cultural Anthropology

BSc thesis supervised by AAAI fellow Prof. Dr. Malte Helmert, awarded highest possible grade

Overall Grade: 5.4/6 (equivalent to *magna cum laude*)

EXPERIENCE

Department of Biomedical Engineering, University of Basel

March 2023 - July 2023

Research Assistant and Software Engineer

Basel, Switzerland

- Developed software for Prof. Dr. Philippe Cattin, head of the Department of Biomedical Engineering.
- Implemented a pipeline for feeding medical data to deep learning models, a system to detect divergent MRI configurations using a variational autoencoder and a deep learning model to detect hip landmarks in x-ray images.

University of Basel

September 2021 - July 2022

Teaching Assistant

Basel, Switzerland

- Worked for the modules *Algorithms and Datastructures* and *Computer Architecture and Trustworthy Computing*.
- Conceptualised and graded exercise sheets, held weekly exercise sessions answering questions, introducing the exercise sheets and presenting a summary of the key points of the lecture, part of grading team.

SKILLS/INTERESTS/MISCELLANEOUS

Languages

Native in English and German, working knowledge in French

Programming Languages

Python, Java, C, C++, Bash and MATLAB

Tools

PyTorch, Ableton Live, Reaper, SQLite, Vim, Unix and JetBrains IDEs

Interests

Music performance, running, cycling, meditation and reading

Awards

Swiss Youth Music Competition (SJMw) 2019