

EDUCATION

- Oct. 2021 - Present **Master of Science – Computational Physics**, University of Heidelberg
Master thesis: in the field of representation learning in cooperation with LMU Munich supervised by Prof. Dr. Björn Ommer (ongoing).
Current grade: 1.4 (* grade scale explanations see below)
- Oct. 2017 - Sep. 2021 **Bachelor of Science – Physics**, University of Heidelberg
Semester abroad: Portland State University (Sep. 2019 - Apr. 2020, US)
Bachelor thesis: *“Conditional Similarity Learning for Multilabel Classification of Medical Images”* supervised by Prof. Dr. Björn Ommer.
Final grade: 1.8
- Sep. 2009 - Jul. 2017 Wilhelmi-Gymnasium Sinsheim (High school)
Final grade: 1.3

WORKING EXPERIENCE

- Sep. 2021 - Present **Research assistant, Group of Prof. Dr. Ommer, Heidelberg University / LMU Munich**
- Work on own project in the field of representation learning
 - Create new approaches based on recent research using Python, TensorFlow and Jax
 - Increased classification performance of lung diseases by 11% based on ROC AUC score over baseline by using different metric learning techniques in combination
 - Planned publication of results in a research paper at the beginning of 2023
- Jan. 2019 - Present **Tutoring, Physics Department, Heidelberg University**
- Prepare and perform lab experiments as a supervisor
 - Correct lab reports and provide help as needed
 - Supervise groups of up to eight people of various backgrounds: physicists, chemists, medics
- Sep. 2019 - Mar. 2020 **Intramurals Sports Official, Portland State University**
- Officiated soccer and basketball games as a referee and taught young referees the law of the game
 - Organized game days together with colleagues
 - Worked as a team on and off the field

EXTRACURRICULARS

- Oct. 2021 Participated at **Q-Summit Hackathon by IBM** on the topic of bias free AI winning 2nd place (see projects on mafi2.github.io)
- Since 2017 Member of the German Physics Society (DPG)
- Since 2014 Soccer Referee
- Since 2013 Member of the Big Band of Sinsheim (trumpet)

SKILLS

- Programming Languages: Python, R, C++
Frameworks/Libraries: TensorFlow, Jax, Flax, PyTorch, NumPy
Miscellaneous: Git, Latex
Languages: English (fluent - spent 8 months in the US), French (intermediate), Chinese (fundamentals)