



## EDUCATION

- 2018–2020 **M.Sc. Artificial Intelligence** **Universiteit van Amsterdam, Vrije Universiteit Amsterdam**  
 {Deep, Machine, Reinforcement} Learning, Sound processing, Computer Vision GPA 8.8/10 (est)  
**Thesis:** We are conducting research on using VAEs and unsupervised representation learning for topics in Music Information retrieval (including source separation).  
**Supervisor:** Maximilian Ilse, AMLab  
 Python / PyTorch
- 2014–2017 **B.Sc. Applied Computer Science** **University Heidelberg**  
 Focus: Image processing and pattern recognition GPA 3.48/4  
**Thesis:** Using a FCN-ResNet based detector the thesis provides a reverse image search tool here in particular to retrieve art historic images containing an object given by a reference image.  
**Supervisor:** Dr. Miguel Bautista Martin, Prof. Dr. Björn Ommer  
 Python / Caffe / Keras
- 2013–2014 **B.Sc. Physics** **University Heidelberg**  
 Change of degree after the second semester, kept as minor studies

## EXPERIENCE

- 02/2020–04/2020 **Teaching Assistant – IR** **Universiteit van Amsterdam**  
 TA for the masters course *Information Retrieval I*.
- 01/2020–02/2020 **Teaching Assistant – FACT** **Universiteit van Amsterdam**  
 TA for the masters course *Fairness, Accountability, Confidentiality and Transparency in AI*.  
 Python / PyTorch
- 06/2019–08/2019 **Internship – AI for production control** **BMW Group, Munich**  
 Worked within the engine development department. Building statistical models to analyze engine part quality and live fleet monitoring. Building a production ready data visualization app.  
 Python / PySpark / Palantir Foundry / PostgreSQL / Dash / Agile development
- 04/2018–08/2018 **Full-stack Web developer** **Bürgerwerke eG, Heidelberg**  
 Ground up development of a communication and organization web portal in Ruby on Rails. Backend and Frontend work, idea to finish.  
 Rails / Ruby
- 09/2016–06/2017 **Laboratory admin** **Alfred-Weber-Institute for Economics, Heidelberg**  
 Administrator in the behavior Economics computer lab. Development of an experiment administration software.  
 Rails / Ruby / Python
- 10/2015–02/2016 **Teaching Assistant** **University Heidelberg**  
 Self-prepared weekly training classes for course practical computer science.  
 C++
- 06/2015– **CO-Founder / Voluntary work** **Collegium Academicum, Heidelberg**  
 Student-founded non-profit company building sustainable student housing. We are building an innovative living space for 200 young people. Creating an educational center for holistic self-learning.  
 team building / lead generation / design work / writing grant applications

## ACADEMIC INTERESTS

My interests lie in machine especially deep learning. I am interested in generative modelling and Bayesian methods. Applications to music and sound. Understanding of perception.

## LANGUAGES

**German** — native  
**English** — proficient (TOEFL 112/120)  
**Persian** — learning

## HOBBIES

climbing, mountaineering, electronic music production