

# Curriculum Vitae

## Maurice Frank



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### INTERESTS

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

### EDUCATION

#### M.Sc. Artificial Intelligence

GPA 8.8/10 (est)

📍 **Universiteit van Amsterdam**

📅 2018 – 2020

- Research focussed degree containing theory and practice of most contemporary topics of AI/ML
- Topics

**Thesis:** Investigating Bayesian methods for un- and semi-supervised music source separation. Do generative models know what they don't know?

*Supervisor:* Maximilian Ilse (AMLab), Prof. Efstratios Gavves

#### B.Sc. Applied Computer Science

GPA 3.48/4

📍 **University Heidelberg**

📅 2014 – 2017

*Focus:* Image processing and pattern recognition

**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. 📖 **Read**

*Supervisor:* Dr. Miguel Bautista Martin, Prof. Dr. Björn Ommer

#### B.Sc. Physics

📍 **University Heidelberg**

📅 2013 – 2014

Change of degree after the second semester, kept as minor studies

### EXPERIENCE

#### Graduate Teaching Assistant

📍 **Universiteit van Amsterdam**

📅 01/2020 – 04/2020

Assisting with the master level courses:

- Information Retrieval
- Fairness, Accountability, Confidentiality and Transparency in AI teaching n stuff

Python / PyTorch

#### Internship — AI for production control

📍 **BMW Group, Munich**

📅 06/2019 – 08/2019

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

#### Full-stack Web developer

📍 **Bürgerwerke eG, Heidelberg**

📅 04/2018 – 08/2018

Ground-up development of a communication and organization web portal in Ruby on Rails. Backend and Frontend work, idea to finish.

Rails / Ruby

#### Laboratory admin

📍 **Alfred-Weber-Institute, Heidelberg**

📅 09/2016 – 06/2017

Administrator in the behavior Economics computer lab. Development of an experiment administration software.

Rails / Ruby / Python

#### Teaching Assistant

📍 **University Heidelberg**

📅 10/2015 – 02/2016

Self-prepared weekly training classes for course practical computer science.

C++ / C

### VOLUNTARY WORK

#### CO-Founder

📍 **Collegium Academicum, Heidelberg**

📅 06/2015–

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

### SKILLS

test

### LANGUAGES

**German** native

**English** fluent (TOEFL 112/120)

**Persian** beginner

### PERSONAL INTERESTS

- Climbing
- Mountaineering
- Electronic music production