Curriculum Vitae
Maurice Frank

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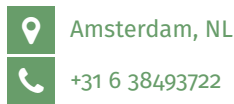
EDUCATION

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: Investigating Baysian methods for un- and semi-supervised music source separation. Do generative models know what they don't know?
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 — Information Retrieval** **Universiteit van Amsterdam**
TA for the master's course *Information Retrieval I.*
`Python / PyTorch`

01/2020–02/2020 **Teaching Assistant — FAT in AI** **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 — CS** **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`

LANGUAGES

German — native
English — proficient (TOEFL 112/120)
Farsi — *beginner*

ACADEMIC 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.

PERSONAL INTERESTS

- Climbing
- Mountaineering
- Electronic music production