Curriculum Vitae
Maurice Frank

Amsterdam, NL
+31 6 38493722

morris-frank.dev
maurice.frank@posteo.de
github.com/morris-frank

EDUCATION

2018–2020 — **M.Sc. Artificial Intelligence** — **Universiteit van Amsterdam, Vrije Universiteit Amsterdam**

{Deep, Machine, Reinforcement} Learning, Sound processing, Computer Vision — *GPA 8.7/10 (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

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Python / PyTorch
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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

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Python / Caffe / Keras
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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.*

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Python / PyTorch
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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.

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Python / PySpark / Palantir Foundry / PostgreSQL / Dash / Agile development
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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.

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Rails / Ruby
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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.

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Rails / Ruby / Python
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10/2015– 02/2016 — **Teaching Assistant** — **University Heidelberg**

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

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C++
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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.

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team building / lead generation / design work / writing grant applications
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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