

Resumé

# Maurice Frank



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## EDUCATION

|           |  |  |
|-----------|--|--|
| 2018–2020 | <b>M.Sc. Artificial Intelligence</b><br><i>Focus: {Deep, Machine, Reinforcement} Learning, Computer Vision</i> | <b>Universiteit van Amsterdam, Vrije Universiteit Amsterdam</b><br>GPA 8.61/10 (est) |
| 2014–2017 | <b>B.Sc. Applied Computer Science</b><br><i>Focus: Image processing and pattern recognition</i>                | <b>University Heidelberg</b><br>GPA 3.48/4   |
| 2013–2014 | <b>B.Sc. Physics</b><br>Change of degree after the second semester   | <b>University Heidelberg</b>   |
| 2005–2013 | <b>A levels</b><br>GPA B-  | <b>Max-Planck Gymnasium, Schorndorf</b>  |

## EXPERIENCE

|                     |   |   |
|---------------------|---|---|
| 09/2019–<br>12/2019 | <b>Internship</b><br>Analysis of fMRI data from the Human Connectome Project to understand the connectivity mapping in the brain for auditory and visual stimuli.<br>Python / PyTorch   | <b>Spinoza Centre for Neuroimaging, Vrije Universiteit, Amsterdam</b> |
| 06/2019–<br>08/2019 | <b>Internship</b><br>Building statistical models to analyze engine part quality and live fleet monitoring. Building a production ready data visualization app.<br>Python / PySpark / Palantir Foundry / PostgreSQL / Dash / Agile development | <b>BMW Group, Munich</b>  |
| 04/2018–<br>08/2018 | <b>Web developer</b><br>Development of a communication and organization web portal.<br>Rails / Ruby   | <b>Bürgerwerke eG, Heidelberg</b>                                     |
| 09/2016–<br>06/2017 | <b>Laboratory admin</b><br>Administrator in the behaviour Economics computer lab. Development of an experiment administration software.<br>Rails / Ruby / Python  | <b>Alfred-Weber-Institute for Economics, Heidelberg</b>               |
| 10/2015–<br>02/2016 | <b>Teaching Assistant</b><br>Self-prepared weekly training classes for course practical computer science.<br>C++  | <b>University Heidelberg</b>  |
| 06/2015–            | <b>Voluntary work/CO-Founder</b><br>Student-founded non-profit company building sustainable student housing. Creating a educational center for holistic self-learning.<br>team building / lead generation / design work / grant applications  | <b>Collegium Academicum, Heidelberg</b>                               |

## B.SC. THESIS

**One-shot detection in art historic images**  
Using a FCN-ResNet based detector the thesis provides a reverse image search tool here in particular to retrieve art historic images containing a given object from a sample image.  
Python / Keras / Caffe

## LANGUAGES

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

## HOBBIES

climbing, mountaineering, electronic music production

## REFERENCES

Prof. Dr. Björn Ommer  
*Full Prof for Computer Vision*  
University Heidelberg

Jörg Lederbauer  
*Senior Vice President*  
BMW Group

Dr. Miguel Bautista Martin  
*Research Engineer*  
Apple Inc