# Benjamin Gallusser

Machine Learning Enthusiast



#### Education

2016 – 2019 **M.Sc. Computer Science** 

ETH Zürich

GPA: 5.2 on a scale from 6 (excellent) to 1 (failure) Focus areas: Deep Learning, NLP, Computer Vision Master's thesis at HHMI Janelia, USA

2012 - 2016 B.Sc. Informatics

TU München

GPA: 1.7 on a scale from 1 (excellent) to 5 (failure)

Student exchange (two semesters) at Universidad Austral de Chile

2011 German high school diploma (Abitur) Gymnasium Penzberg

GPA: 1.0 on a scale from 1 (excellent) to 6 (failure)

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## Coding skills

444 Pvthon 44 C++. C Java, Matlab, JS ML: Pytorch, Tensorflow web: Django, Typo3

### Personal info date of birth 03 Apr 1993

nationalities CH, GER, USA

## languages

native = fluent 💥 & 👛 proficient intermediate

#### interests

creating & playing music complex board games traveling by bicycle competitive sports

# Working experience

Nov'18 – Feb'19 Data Science Consulting Intern

McKinsey & Company

ETH Zürich

- · extracted target events for global predictive maintenance of medical diagnostic equipment
- · data engineering for optimizing an industrial aluminum plant
- · overhauled technical material for Advanced Analytics capability building

Oct'17 - Jul'19 **Teaching Assistant for Advanced Machine Learning** 

created and held large tutorial sessions (~100 participants)

& project supervision for the CS Master's courses Natural Language

Understanding and Advanced Machine Learning

Nov'16 - Mar'18 Research Assistant

Institute for Machine Learning, ETH Zürich

- · collaborated on sleep stage classification based on CNN and HMM with accuracy comparable to human experts; publication in PLOS Computational Biology
- collaborators upload large sleep signals, which are evaluated on GPU

Jul'13 – Oct'13 **Back-end developer (internship)**  Datamints GmbH

- · developed internal project status presentation software for weekly team meetings
- · side project: Chrome add-on to combine online search with searching the company's knowledge base

Sep'11 – May'12 Warehouse Associate (internship) Klüber Lubrication North America introduction to logistics, supply chain management

and customer support

# Selected academic projects

- Graph Neural Networks (Master's thesis, with Jan Funke) for supervoxel agglomeration in a 3d neuron reconstruction pipeline, working with terabytes of microscopy images
- Single-core high performance implementation of Latent Dirichlet Allocation in C (11x speedup compared to the author's C implementation)
- Generative Adversarial Networks of for document style transfer, using Machine Learning to change a PDF document layout while keeping the text
- Chatbot capable of conducting a casual conversation, trained on movie conversational data based on seq2seq and MMI cost function
- **Deep Learning** (Bachelor's thesis) for Recognition of Protein Domains from Contact Maps, simplifying a step in a protein structure prediction pipeline
- Sentiment Classification of Tweets using an LSTM network (87% accuracy)