Benjamin Gallusser

Machine Learning Enthusiast

Contact

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Coding skills

👍👍👍 Python
👍👍 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
complex board games
creating & playing music
competitive sports

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)*

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** ⬀ 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)

Working experience

Nov'18 – Feb'19	**Data Science Consulting Intern**	McKinsey & Company

working on Predictive Maintenance systems and Advanced Analytics studies & capability building

Oct'17 – Jul'19	**Teaching Assistant for Advanced Machine Learning**	ETH Zürich

creating and holding 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

- *collaborating on sleep stage classification based on CNN and HMM with accuracy comparable to human experts;* **publication in PLOS Computational Biology** ⬀
- *full design, development and system administration of the web service ⬀; collaborators upload large sleep signals, which are evaluated on GPU*

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

- *developing 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