Benjamin Gallusser

Machine Learning Enthusiast

Contact

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Coding skills

👍👍👍 Python
👍👍 C++, C
👍 Java, Matlab, JS
ML: tensorflow, pytorch
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
doing competitive sports

Education

2016 – 2019	**M.Sc. Computer Science**	ETH Zürich
	at the #2 CS department worldwide (THE ranking 2019)	
	current GPA: 5.4 on a scale from 6 (excellent) to 1 (failure)	
	Master's thesis at Janelia Research Campus, 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

- **Currently: Master's thesis on Graph Neural Networks** for supervoxel agglomeration in a neuron segmentation pipeline, based on terabytes of electron microscopy images ↗
- **Generative Adversarial Networks (GAN)** ↗ for document style transfer, achieving state-of-the-art results
- Interdisciplinary analysis of the **legal, economic, ethical and political implications of the big data revolution** in a four-months seminar
- Single-core **high performance implementation** ↗ of Latent Dirichlet Allocation in C (11x speedup compared to the author's C implementation)
- **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 – Nov/12 | **Warehouse Associate (internship)** | Klüber Lubrication North America |
| | *introduction to logistics, supply chain management and customer support* | |