

Sebastian Jäger

Berlin – Germany



☎ (+49) [REDACTED] • ✉ se.jaeger@web.de
🌐 www.sebastian-jaeger.me • 🌐 github.com/se-jaeger
🌐 linkedin.com/in/se-jaeger • 🐦 twitter.com/se_jaeger

PhD student interested in data integration and quality with several years of experience of working in and leading research and customer projects. Experienced with common languages, libraries, tools, cluster, and cloud infrastructures. Always eager to gain new and share knowledge, apply cutting edge technologies, and give talks.

Education/Courses

PhD Student **Berliner Hochschule für Technik (BHT) Berlin, Germany**
Machine Learning *since Nov 2020*

Research Project: Green Consumption Assistant ([link](#))

Research Interests: Data Quality, Data Imputation, Data Correction

Data Science **Berliner Hochschule für Technik (BHT) Berlin, Germany**
Master of Science *Oct 2018 - Oct 2020*

Final grade: 1.0

Thesis Title: Compressing BERT – An Evaluation and Combination of Methods

We analyzed several compressing approaches for BERT and applied them on models for the medical domain.

Supervisors: Prof. Dr.-Ing. habil. Alexander Löser & Prof. Dr. rer. nat. Felix Bießmann

Deep Learning Specialization **Massive Open Online Course (MOOC), Online**
Coursera Course *Apr 2018*

Covers the foundations of Deep Learning, the structure of machine learning projects, CNNs, RNNs, as well as optimization, initialization, and regularization techniques.

Computer Science **Karlsruhe University of Applied Sciences, Germany**
Bachelor of Science *Oct 2014 – Feb 2018*

Final grade: 1.2

Thesis Title: Horizontales Skalieren von Deep Learning Frameworks

We evaluated the horizontal scaling properties of two common Deep Learning Frameworks experimentally, namely TensorFlow and MXNet.

Supervisors: Prof. Dr. rer. nat. Christian Zirpins & Hans-Peter Zorn (inovex GmbH)

Work Experience

Berliner Hochschule für Technik (BHT) Berlin **Berlin, Germany**
PhD Student *since Nov 2020*

Data Science and Text-based Information Systems (DATEXIS) **Berlin, Germany**
Thesis Student *Mar 2020 - Oct 2020*

inovex GmbH
Working Student

Karlsruhe, Germany
Aug 2017 – Feb 2020

Kubernetes-based data science platform: Internal used platform to speedup and scale data science projects.

Responsibilities:

- Implementation and security of the Kubernetes cluster environment
- Selection and combination of components and tools
- Implementation of a Go-based CLI tool to easily interact with the platform

Metadata management system for 3D mass spectroscopy data: Research project for analysis of 3D mass spectroscopy data. In collaboration with the Mannheim University of Applied Sciences.

Responsibilities:

- Leading and coordinating a team of five students
- Communicating and presenting the project process internally and to public

exensio GmbH
Internship & Working Student

Karlsruhe, Germany
Mar 2016 – May 2017

- Java and Groovy based software development
- Move internal infrastructure to a Docker-based environment

Selected Projects

Simulating Heavy Rainfalls in Berlin: Simulation system that can calculate flooding hot spots during heavy rainfalls in Berlin. Exclusively based on open data sources. ([link](#))

Weak Supervision for Hate Speech Detection in German: Related to the BMBF project NOHATE, we applied the concept of weak supervision to assemble training data. ([link](#))

Leveraging Transfer Learning to Imitate Human Behavior for Image Colorization: We improved the performance of an image colorization system by developing an ensemble model. ([link](#))

Activities/Interests

Conference Talk
data2day

Ludwigshafen, Germany
Oct 2019

Title: Mit Metadatenmanagement hinzu reproduzierbaren und flexiblen Data-Science-Workflows auf Kubernetes ([link](#))

Hackathon
Climathon

Berlin, Germany
Oct 2019

Hackathon to create sustainable innovation to solve Berlin's climate challenges.

Our project: We developed a warning system for urban flooding due to extreme weather.

Workshop Paper
Distributed Infrastructures for Deep Learning

Rennes, France
Dec 2018

Title: Parallelized Training of Deep NN – Comparison of Current Concepts and Frameworks ([link](#))

Article
heise Developer

heise Developer, Online
Nov 2018

Title: Machine Learning im Kubernetes Cluster ([link](#))

Conference Talk

Minds Mastering Machines

Köln, Germany

Apr 2018

Title: Skalieren Von Deep Learning Frameworks mit Hilfe von Cloudinfrastrukturen und Kubernetes
([link](#))