




# Korbinian Koch (he/him)

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[GitHub](#)  [Linkedin](#) 

## Education

Oct. 2020 – present	<b>M.Sc.</b> Intelligent Adaptive Systems, University of Hamburg, preliminary grade 1.19 (95 %) 7 % acceptance rate, anticipated graduation in summer 2023
Sep. 2021 – Apr. 2022	Exchange Student, University of Toronto, GPA 4.0 Relevant courses: Trustworthy Machine Learning, Machine Learning for Healthcare, Natural Language Computing
Oct. 2016 – Sep. 2020	<b>B.Sc.</b> Human-Computer Interaction, University of Hamburg, grade 1.3 (92 %) Awarded best degree in cohort Thesis (1.0 / 100 %) on the estimation of voice likability using pre-trained speech embeddings, implemented in Python and Bash using scikit-learn, Keras/Tensorflow, and wandb
Mar. 2019	Leaders in Entrepreneurship, Louisiana State University Entrepreneurship exchange program by the German-American Fulbright Commission
Sep. 2018 – Dec. 2018	Exchange Student, University of Calgary, GPA 3.9 Best grade in class in courses <i>Artificial Intelligence</i> and <i>Thinking with Data</i>

## Publications

*No Matter How You Slice It: Machine Unlearning with SISA Comes at the Expense of Minority Classes*

Korbinian Koch, Marcus Soll

Submitted to IEEE SaTML 2023 (under review)




## Professional experience

Jan. 2022 – Apr. 2022	Applied Machine Learning Intern, Vector Institute, part-time <ul style="list-style-type: none"><li>▸ Developed a customizable reranking framework for Reddit threads, increasing the diversity of viewpoints shown to users using community- and language-model-based scores</li><li>▸ Built a user study interface using GCP and Streamlit for the evaluation of said scores</li><li>▸ Wrote a Slack notification tool that tracks the status of long-running experiments on own initiative</li><li>▸ Ensured participant success as a technical facilitator in Vectors forecasting bootcamp, a 3-day workshop introducing participants to state-of-the-art ML forecasting techniques</li><li>▸ Improved the documentation of NeuralProphet, an open-source forecasting framework</li></ul>
Nov. 2019 – Apr. 2020	Cloud Native Development Intern, MOIA, part-time <ul style="list-style-type: none"><li>▸ Developed microservices in Kotlin using REST, GraphQL, and a variety of AWS services such as Lambda, RDS and SQS</li><li>▸ Optimized data quality and query performance on PostgreSQL database</li><li>▸ Convinced management to allow students and interns to take part in team self-selection</li></ul>

## Teaching experience

Oct. 2017 – Mar. 2018	<i>Software Development</i> , Teaching Assistant, University of Hamburg Supervised classes of ~ 30 students, giving feedback on and grading assignments
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## Selected projects

- 2021 [Modergator](#)   
Automating content moderation for text, speech, and memes in Telegram chat groups using multimodal ML models, proof of concept, group project
- 2021 [Dreaming in Goal-Conditioned Environments](#)   
Extended the reinforcement learning agent Dreamer for additional robotic environments
- 2020 [A Friendly Introduction to Text Clustering](#)   
Medium article with > 100K views, featured by the *Towards Data Science* editors

## Leadership positions

- Jul. 2022 – present **Hugging Face Student Ambassador**  
Organizing student workshops and events in close coordination with the people at Hugging Face
- Oct. 2017 – present **Stiftung der Deutschen Wirtschaft (sdw), Scholarship**
  - Awarded for outstanding academic potential and determination, extended in 2020
  - Head of local scholarship group from 2019 to 2020 with responsibility for ~60 members, organizing meetups and company visits, interviewing candidates, and onboarding new fellows
- Oct. 2020 & Oct. 2022 **International Welcome Week Tutor, University of Hamburg**  
Onboarding international Master's students from over 20 countries over a full week
- Jul. 2017 – Sep. 2021 **Student Representative, University of Hamburg**  
Student delegate in CS ethics commission, ML appointments committee, and examination board
- Jul. 2017 – Sep. 2019 **Treasurer, University of Hamburg Computer Science Student Council**

## Prizes

- Jan. 2022 IT-Talents Big Data Predictions Code Competition, Germany, 1<sup>st</sup> place, solo participation  
[Interview \(German\)](#) , [Code](#) 
- Nov. 2020 Google Developer Student Club Munich CTF, Germany, 15<sup>th</sup> out of 76, team of two
- Dec. 2019 API-Hackathon@PwC Frankfurt, Germany, 2<sup>nd</sup> place, team of six
- Mar. 2019 StartUp Weekend Baton Rouge, USA, 1<sup>st</sup> place, team of eight, solo pitch done by me
- Nov. 2018 Haskayne Sustainable Analytics Case Competition, Canada, 1<sup>st</sup> place, team of four

## Technical skills

- Coursework Statistics, Machine Learning, Neural Networks, Computer Vision, Robotics, Knowledge Processing
- Computing Python, PyTorch, Linux, Data Science Tooling

Thank you for taking the time to read my resume.

I do hope that you have found something of common interest.

If you did, feel free to contact me and get the conversation going.