

---

## Work

- 10/2021 - 08/2026 **Scholar Inbox**, Tech Lead  
Led the technical development of [www.scholar-inbox.com](http://www.scholar-inbox.com), coordinating a team of 10 at the Autonomous Vision Group under professor Andreas Geiger. My technical contributions are the generative recommender system relying on semantic ids, semantic search, two tower architecture, deep retrieval and ranking implementations and personalised, intuitive UI design. To date, Scholar Inbox has 40k PhD level technical users.
- 12/2019 - 12/2021 **Scholar Inbox**, *Max-Planck-Institute for Intelligent Systems*, Full Stack Engineer  
First work on Scholar Inbox using Python, PostgreSQL and Flask. I learned to obsess about customer experience, discovering use cases working with some of the brightest researchers in Germany, scaling the platform from one to a few hundred users in two years.
- 09/2018 - 04/2019 **Chronicle**, *University of Marburg*, Research assistant  
Collaborated in building a no-SQL time series database "Chronicle" with state of the art writing speeds. I iterated on the Java API and refactored a very complex inheritance structure. Chronicle was supervised by prof. Seeger and is in use at the CERN particle accelerator

---

## Education

- 12/2023 - 08/2026 **PhD in Machine Learning, NLP, Prof. Andreas Geiger**, *University of Tübingen*,  
Published a long sequence modelling, hierarchical transformer-encoder with an efficient attention CUDA kernel leading to 7.5x speedup of training time and published a recommendation system and dataset. My most recent paper explores grounded evaluation for research ideation agents, providing the first comparable evaluation technique beyond LLM-as-a-judge.
- 10/2019 - 10/2021 **Msc Computer Science**, *University of Tübingen*, Master Thesis on recommender systems for Scholar Inbox, leading to 96% on the NDCG metric. Benchmarked classical ML recommender systems, supervised directly by professor Andreas Geiger  
Natural Language Processing, Advanced SQL, Advanced Neural Networks, Statistics, A/B Testing, Calibration, Machine Learning in Graphics and Vision, Theoretical Computing, Offline Evaluation
- 04/2018 - 09/2019 **Bsc Data Science**, *University of Marburg*, Bachelor Thesis on predicting antimicrobial peptides using evolutionary algorithms. Learning: Don't use evolutionary algorithms  
Databases, Linear Optimisation, Foundations of Machine Learning, Data Structures, Knowledge Discovery, Linear Algebra, Object Orient Programming, Discrete Mathematics, Numerics

---

## Selected Publications

- under submission **Evaluating Ideation Agents on Future Scientific Discoveries**  
Flicke, He, Chitta, Cao, Geiger
- ACL25 Demo **Scholar Inbox: Personalized Paper Recommendations for Scientists**  
Flicke, Angrarbeit, Iyengar, Protsenko, Shakun, Cicvaric, Kargi, He, Schuler, ..., Geiger
- COLM24 **HDT: Hierarchical Document Transformer**  
He\*, Flicke\*, Buchmann, Buchmann, Gurevych, Geiger

---

## Programming experience

- Python Pytorch, Tensorflow, Numpy, Pandas, Celery, Flask, Selenium, Seaborn, Matplotlib  
Other SQL, HTML, Javascript, CUDA, Assembly, C++, C#, Java, React

---

## Speeches and Awards

- 2026 Invited speaker at MLCon26 ([video](#)), on active learning and the cold start problem.  
2026 Winner of the Nebius Hackathon Munich prize, with the project "Toolstack Overflow".  
2025 Winner of the Cyber Valley AI Incubator for best pitch and best business model, 25k\$