Claas Beger

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Education

Cornell University — *Aug 2024 – May 2025*
MEng in Computer Science — *GPA: 4.24/4.3*

Hong Kong University of Science and Technology — *Jan 2022 – May 2022*
Exchange - Computer Science — *GPA: 4.1/4.3*

Technical University of Munich — *Oct 2019 – Mar 2024*
BS in Information Systems — *GPA: 3.7/4.0*

Experience

Research Assistant — *Santa Fe, New Mexico*
Santa Fe Institute — *June 2025 – Present*
Researched multimodal reasoning with Melanie Mitchell in collaboration with Sandia National Laboratories.

Graduate Teaching and Research Specialist — *Ithaca, New York*
Cornell University — *Jan 2025 – May 2025*

- Created and graded exams for the course Introduction to Machine Learning

Responsible AI Engineering Intern — *Munich, Bavaria*
PwC — *June 2022 – Jan 2023*

- Integrated SHAP and LIME into a unified XAI engine supporting TensorFlow, PyTorch, and scikit-learn.
- Developed and presented a project white paper at BitKom Big Data & AI Summit Berlin 2022

Financial Technologies SWE Intern — *Frankfurt, Hessia*
Deutsche Bank — *Oct 2021 – Jan 2022*

- Created and maintained microservices with Python and Java (SpringBoot) on Fabric (RedHat OpenShift)
- Migrated and analysed financial databases with Flywaydb, JDBC, JPA and PostgreSQL

Research Assistant — *Munich, Bavaria*
Institute of Computational Biology Munich — *Sep 2020 – Jun 2021*

- Created neural networks for classification and clustering of over 20 million single cell samples in Python (Tensorflow, Keras, Pandas); developed autoencoders for creation of synthetic diabetic cell samples

Selected Publications

CoCoNUT: Structural code understanding does not fall out of a tree — Jan 2025
Claas Beger, Saikat Dutta
Paper (LLM4Code Workshop at ICSE2025)

Do AI models perform human-like abstract reasoning across modalities? — Feb 2025
Claas Beger, Ryan Yi, Shuhao Fu, ..., Melanie Mitchell
Preprint (arXiv Preprint [in Review])

A neuroscience-inspired dual-process model of compositional generalization — July 2025
Alex Noviello*, ***Claas Beger****, Jacob Groner, Kevin Ellis, Weinan Sun
Preprint (NeurIPS 2025 Interpreting Cognition in Deep Learning Models Workshop)

Technologies

Technologies: Python, C++, Java, Swift, SQL, Pytorch, Tensorflow, Numpy, sklearn, Pandas, SpringBoot

Skills: Machine Learning, NLP, Computer Vision, Software Engineering, Neuromorphic Algorithms