Claus Hofmann

Vienna, Austria

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EDUCATION

Johannes Kepler University Linz   **10 2022 – NOW**
Ph.D. Artificial Intelligence — Advisor: **Prof. Sepp Hochreiter**   *Linz, Austria*

- Research Focus: Out-of-distribution detection, Attention Mechanisms, and Modern Hopfield Networks.

University of Vienna   **10 2018 – 11 2020**
M.Sc. Computer Science — Data Science — **GPA - 1.14**   *Vienna, Austria*

University of Vienna   **10 2015 – 09 2018**
B.Sc. Computer Science — Data Science — **GPA - 1.20**   *Vienna, Austria*

HONORS AND AWARDS

- **Appreciation Award (2021)** — *Federal Ministry of Science and Education*
  Recognized as one of the **Top 50 graduates in Austria** across all disciplines (Top 3 in Computer Science).

- **Best of the Best Award (2019 & 2021)** — *University of Vienna*
  Awarded twice for ranking in the **Top 2** of the graduating class for both **B.Sc.** and **M.Sc.** degrees (initial intake of 600+ students).

SELECTED PUBLICATIONS

- Hofmann et al. (2025) [AP-OOD: Attention Pooling for Out-of- Distribution Detection.](#) In: **Under review**. *Also in EurIPS 2025 MetaGenAI and Epistemic Intelligence in Machine Learning workshops.*

- Hofmann et al. (2024) [Energy-based Hopfield Boosting for Out-of-Distribution Detection.](#) In: **NeurIPS 2024**. *Also in NeurIPS 2023 Associative Memory & Hopfield Networks workshop (Oral).* [O] *[GitHub](#)*

SCIENTIFIC INTERESTS

- Deep Learning
- Out-of-distribution detection
- Sequence modeling
- Model reliability
- Attention-based architectures
- Modern Hopfield networks

PROFESSIONAL EXPERIENCE

Johannes Kepler University Linz   **10 2022 – NOW**
Machine Learning Researcher   *Linz, Austria*

- Collaborating with industry partners and instructing undergraduate courses.

EnliteAI   **05 2021 – 09 2022**
Machine Learning Engineer   *Vienna, Austria*

- Engineered core vision components for Detekt (a geospatial AI platform), deploying semantic segmentation models for road infrastructure analysis.
- Architected a georeferencing fusion algorithm to unify object detections across multi-view imagery.

University of Vienna   **09 2018 – 08 2020**
Teaching Assistant   *Vienna, Austria*

- Conducted weekly coding tutorials and technical walkthroughs for the "Foundations of Data Analysis" course (~100 students per semester).
- Designed and evaluated coding and theory assignments to assess student grasp of core data science concepts.

Bearing Point   **07 2018 – 08 2018**
Software Engineering Internship   *Vienna, Austria*

- Contributed to the development of big data pipelines using Apache Kafka.

SKILLS

Technologies: PyTorch, Python, TensorFlow, Keras, Java, C++, C, Swift, Javascript

Languages: English, German, French