Timo Bertram

❖ Linz, Austria ❖ Scholar Github

WORK EXPERIENCE

University Assistant   **2020– Present**
Johannes Kepler University   *Linz, Austria*

- Research on contrastive learning and Siamese neural networks for Game AI.
- Teaching Bachelor and Master students in **Programming in Python.**
  Previously also **Introduction to Programming**, and **Algorithms and Data Structures.**
- BSc and MSc thesis supervision in AI and Game AI.
  Examples include *Evolutionary Algorithms for CCG's*, *Developing Game Agents for Reconnaissance Blind Chess,* and *Leveraging Large Language Models for Acronym Disambiguation*.

Translator German -- English   **2018– 2020**
Freelance

IT-Helpdesk   **2017– 2018**
steep GmbH

EDUCATION

Johannes Kepler University Linz   **2020-2024 (projected)**
PhD Artificial Intelligence   *Linz Austria*

- Thesis on *Contrastive Learning for Imperfect-Information Games* under supervision of Prof. Dr. Johannes Fürnkranz.
- Comparison-based machine learning for Magic: The Gathering, Reconnaissance Blind Chess, and Poker.

University of Birmingham   **2019-2020**
MSc Advanced Computer Science   *Birmingham, UK*

- Thesis on *GAN-SAC Sample-Efficient Soft Actor-Critic Using GAN-Created Model-Rollouts* under supervision of Prof. Per Kristian Lehre.
- Completed with distinction.

University of Bonn   **2015-2018**
BSc Informatics   *Bonn, Germany*

- Thesis on *Divisive Hierarchical Clustering with Reverse Wards* under supervision of Dr. Heiko Röglin.
- Completed with 2,3.

SKILLS, AWARDS, PEER-REVIEWING & INTERESTS

- **Skills:** Python, PyTorch, Java, Supervised Learning, Unsupervised Learning, Reinforcement Learning, Contrastive Learning, Tree-Search, LaTeX
- **Awards:**
  - Best paper award at IEEE Conference on Games 2021
  - Best student paper award at IEEE Conference on Games 2024
- **Peer-Review**: Reviewer at IEEE Conference on Games 2021-2024, ICML 2022, KI 2022
- **Interests**: Badminton, Powerlifting, Magic: The Gathering, Board and Card Games, making the perfect pizza.

REFERENCES

Prof. Dr. Johannes Fürnkranz (PhD supervisor)
Prof. Per Kristian Lehre (MSc supervisor)