

Timo Bertram

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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)