

JANNIK BRINKMANN

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RESEARCH EXPERIENCE

Northeastern University

Visiting Researcher under supervision of David Bau.

Apr. 2024 –

EDUCATION

University of Mannheim

Ph.D. in Computer Science

2022 –

University of Mannheim

M.Sc. in Data Science - GPA: 3.8 out of 4.0 (with Distinction)

2019 – 2021

Baden-Württemberg State University

B.Sc. in Business Informatics - GPA: 3.8 out of 4.0 (Best in Class)

2016 – 2019

PUBLICATIONS

* indicates equal contribution.

A Mechanistic Analysis of a Transformer Trained on a Symbolic Multi-Step Reasoning Task

J. Brinkmann*, A. Sheshadri*, V. Levoso*, Paul Swoboda, Christian Bartelt.

Association for Computational Linguistics (ACL) Findings, 2024.

Backward Chaining Circuits in a Transformer Trained on a Symbolic Reasoning Task

J. Brinkmann*, A. Sheshadri*, V. Levoso*, Paul Swoboda, Christian Bartelt.

ICLR Workshop on Mathematical and Empirical Understanding of Foundation Models, 2024.

A Multidimensional Analysis of Social Biases in Vision Transformers

J. Brinkmann, P. Swoboda, C. Bartelt.

International Conference on Computer Vision (ICCV), 2023.

TALKS

Understanding the Reasoning Mechanisms in Language Models

- Institute for Visual and Analytic Computing at University of Rostock, Apr. 2024.
- Computer Vision and Learning Lab at University of Heidelberg, Feb. 2024.

SERVICE

Reviews

- NeurIPS (2024), ICLR SeT-LLM (2024), CVPR (2024), ECAI (2023)

OTHER EXPERIENCE

Technical Consultant – Enterprise Solutions

Fresenius SE & Co. KGaA

Jan. 2019 – Dec. 2021

HONORS AND AWARDS

2021 **Outstanding Master Thesis** – University of Mannheim

2019 **Best in Class** – Baden-Württemberg State University