

Mike Laszkiewicz

PhD Student at Ruhr University Bochum

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EDUCATION

- 2019 - **PhD Computer Science, Ruhr University, Bochum**
2023
- Working on statistically sound deep generative models such as graphical models, generative adversarial networks, normalizing flows, variational autoencoders, and diffusion models
 - Published works at ICML and AISTATS
 - Expected graduation in October 2023
- 2017 - **MSc Mathematics, GPA 1.0, Ruhr University, Bochum**
2019
- Focus on applied mathematics, probability theory, and statistics
 - Master's thesis: "*Graphical Models in Theory and Practice*", Grade 1.0
 - Awarded for an outstanding Master's thesis by *Verein zur Förderung der Mathematik an der Ruhr-Universität Bochum e.V.*
- 2014 - **Bsc Mathematics, GPA 0.9, Ruhr University, Bochum**
2017
- Bachelor's thesis: "*Analysis of the efficiency of Quasi-Monte-Carlo algorithms in combination with simulation methods for Brownian motions*" (translated), Grade 0.7
 - Awarded for an outstanding Bachelor's thesis by *Verein zur Förderung der Mathematik an der Ruhr-Universität Bochum e.V.*
- 2007 - **A levels (Abitur), GPA 1.9, Gymnasium am Stoppenberg, Essen**
2014
- Specialization on mathematics and physics

WORK EXPERIENCE

- Since **Teaching Assistant, Ruhr University, Bochum**
2015
- Teaching classes ranging from mathematics to statistics and compute science
- 2018 - **Student Assistant, Ruhr University, Bochum**
2019
- Implementation of a medical image reconstruction method using Python
- 2017 **Intern, Meyerthole-Siems-Kohlruss, Actuarial Consultancy, Cologne**
- Data validation, market research, and presentation of results

SCIENTIFIC PUBLICATIONS

- 2023 **Single-Model Attribution of Generative Models Through Final-Layer Inversion**, Laszkiewicz, M., Ricker, J., Lederer, J., Fischer, A., under review
- 2022 **Marginal Tail-Adaptive Normalizing Flows**, Laszkiewicz, M., Lederer, J., Fischer, A., International Conference on Machine Learning (ICML)
- 2021 **Copula-Based Normalizing Flows**, Laszkiewicz, M., Lederer, J., Fischer, A., Third workshop on Invertible Neural Networks, Normalizing Flows, and Explicit Likelihood Models (INNF+)
- 2020 **Thresholded Adaptive Validation: Tuning the Graphical Lasso for Graph Recovery**, Laszkiewicz, M., Fischer, A., Lederer, J., International Conference on Artificial Intelligence and Statistics (AISTATS)

SIDE PROJECTS

- 2022 **Deepgaldx**, <https://github.com/MikeLasz/deepgaldx>
- Science slam project about style transfer using Cylce-GANs
- 2020 **Robustness of RDF2Vec**, https://github.com/MikeLasz/robustness_rdf2vec
- Analyzing the robustness of RDF2Vec knowledge graph embeddings

SKILLS & INTERESTS

- Languages German (native), English (fluent), Polish, French
- Technology Python, PyTorch, R, Unix Shell, Git, Java, Android, Latex, Excel
- Interests Lacrosse (playing and coaching), Video/Board Games, Watercolor painting