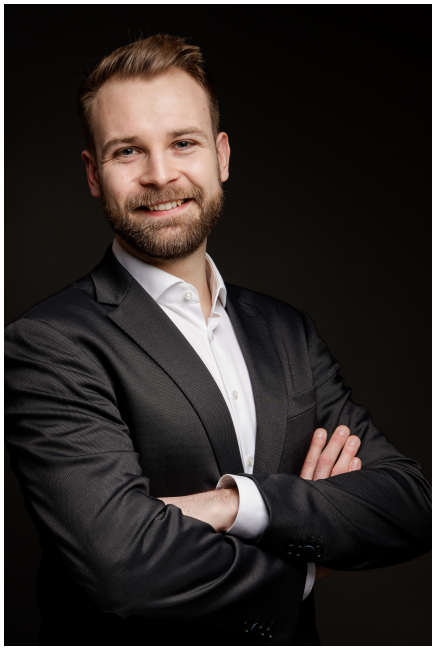

Mike Laszkiewicz

Mathematician (M. Sc.)

PhD Student, Machine Learning

17.02.1996 in Essen

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laszkiewicz.ml@gmail.com

https://mikelasz.github.io/

https://github.com/mikelasz

mike-laszkiewicz-a55666248/

Skills

Python	>5 Years
Deep Learning	5 Years
PyTorch	5 Years
Unix Shell	4 Years
R	4 Years
Java & Android Studio	2 Years
NLP	1 Year
AWS	<1 Year
SQL	<1 Year

Summary

- Doctoral student working in the field of deep learning. Preparing to defend my doctoral thesis by August, potentially earlier.
- Several years of machine learning experience and keenness in deploying state-of-the-art models, including foundation and diffusion models.
- Ready to apply my knowledge to tackle exciting real-world problems.

Education

Doctorate | Computer Science — **10/2019 - Today**

Chair of Machine Learning, Ruhr University, Bochum, Germany

Researching deep generative models, including generative adversarial networks and diffusion models. I spent two months in the medical data science lab at ETH Zurich. My research articles have been published at top-tier machine learning conferences, including ICML and AISTATS. In my current research projects, I leverage modern foundation models for visual anomaly detection and study the attribution of AI-generated audio.

Master of Science | Mathematics | GPA: 1.0 — **10/2017 - 10/2019**

Minor in Economics

Ruhr University, Bochum, Germany

Focus on applied mathematics, probability theory, and statistics. My Master's thesis *"Graphical Models in Theory and Practice"* (grade: 1.0) was awarded by the *Verein zur Förderung der Mathematik an der Ruhr-Universität e.V.*

Bachelor of Science | Mathematics | GPA: 0.9 — **10/2014 - 10/2017**

Minor in Economics

Ruhr University, Bochum, Germany

My Bachelors's thesis *"Analysis of the Efficiency of Quasi-Monte-Carlo Algorithms [...]"* (translated, grade: 0.7) was awarded by the *Verein zur Förderung der Mathematik an der Ruhr-Universität e.V.*

Abitur | GPA: 1.9 — **08/2007 - 08/2014**

Gymnasium am Stoppenberg, Essen, Germany

Majors: Mathematics and Physics.

Work Experience

Research/Student assistant — **10/2015 - Today**

Ruhr University, Bochum, Germany

Teaching courses, ranging from courses in the fields of mathematics to statistics and computer science.

Student assistant — **04/2018 - 10/2019**

Ruhr University, Bochum, Germany

Implementing a novel medical image reconstruction method using Python and statistical consulting for empirical theses.

Internship in an actuarial consultancy — **02/2017 - 05/2017**

Meyerthole Siems Kohlruss, Cologne, Germany

Data maintenance and validation using the in-house database system.

Certificates and Awards

04/2024

AWS Certified Cloud Practitioner (CLF-C02)

Proves foundational understanding of AWS Cloud, services, terminology, and the ability to identify AWS services for common use cases.

04/2024

SQL Bootcamp

Udemy course to refresh my SQL skills. Covers basic features, queries, and the connection to a database via PHP.

08/2022

Masters thesis award

Awarded by the *Verein zur Förderung der Mathematik an der Ruhr-Universität e.V.*

12/2018

Bachelor thesis award

Awarded by the *Verein zur Förderung der Mathematik an der Ruhr-Universität e.V*

Languages

German

English

Polish

French

Hobbies

- Bouldering
- Lacrosse (playing, refereeing, coaching)
- Board games
- Watercolor painting

Latest Academic Articles

- Laszkiewicz, M. & Daunhawer, I. & Vogt, J.E. & Fischer, A. & Lederer, J. (2024). "Benchmarking the Fairness of Image Upsampling Methods". *ACM Conference on Fairness, Accountability, and Transparency*, Rio de Janeiro, June 03 - 06, 2024.
- Laszkiewicz, M. & Ricker, J. & Lederer, J. & Fischer, A. (2023). "Single-Model Attribution of Generative Models Through Final-Layer Inversion". *41st International Conference on Machine Learning*, Vienna, July 21 - 27, 2024.
- Laszkiewicz, M. & Lederer, J. & Fischer, A. (2022). "Marginal Tail-Adaptive Normalizing Flows". *39th International Conference on Machine Learning*, Baltimore, July 12 - 17, 2022.

Programming Projects

Yo Flunk! **01/2020 - 12/2022**

github.com/MikeLasz/yo_flunk

Android application for tracking, summarizing, and visualizing flunky ball matches. A Firebase realtime database is deployed to synchronize data across multiple devices. Programmed in Android Studio, Java.

Deepgaldx **03/2022 - 12/2022**

github.com/MikeLasz/deepgaldx

Science-Slam project about style-transfer of images using CycleGAN implemented in Python. Targetted toward a non-technical audience.

Robustness of RDF2Vec **04/2020 - 10/2020**

github.com/MikeLasz/robustness_rdf2vec

Analysis of the robustness of the knowledge graph embeddings of RDF2Vec. The database is queried using SPARQL and the analysis is conducted in Python.

Voluntary Activities

Lacrosse Coaching **10/2022 - 07/2023**

Weekly coaching at the university lacrosse course.

Shotclocks with mobile connectivitiy **01/2022 - 06/2022**

Built for the lacrosse club, used at the *allgemeine deutsche Hochschulmeisterschaft*.

Nextcloud server for the local sports club **01/2020 - Today**

File hosting service and management tool deployed on a remote Linux server, approximately 100 active users.

Academic self-governance **01/2020 - Today**

Preparation and analysis of the course evaluations of the mathematics faculty.

Bochum, 2nd May 2024

Mike Laszkiewicz