

Education

- 09/20 - 09/25 **Ph.D., Mathematics**, Technische Universität Berlin (TU Berlin)
Advisor: Prof. Dr. Sebastian Pokutta
Thesis: *Explaining Deep Neural Networks Through Inverse Classification*
- 10/17 - 05/20 **M.Sc., Mathematics in Data Science**, Technical University of Munich (TUM)
Advisor: Prof. Dr. Michael Wolf
Thesis: *Adversarial Deformations for Neural Ordinary Differential Equations*
- 10/14 - 07/17 **B.Sc., Mathematics**, University of Tirana
Advisor: Prof. Dr. Artur Baxhaku

Publications

- Sadiku, S.**, Wagner, M., Nagarajan, S. G., and Pokutta, S. (2025). [S-CFE: Simple Counterfactual Explanations](#). In *Proceedings of International Conference on Artificial Intelligence and Statistics (AISTATS)*.
- Sadiku, S.**, Wagner, M., and Pokutta, S. (2025). [GSE: Group-wise Sparse and Explainable Adversarial Attacks](#). In *Proceedings of International Conference on Learning Representations (ICLR)*.

Employment

- 09/20 - **Scientific Assistant**, Zuse Institute Berlin (ZIB)
Research Group: Interactive Optimization and Learning (IOL)
Research Area: Efficient and Sustainable Artificial Intelligence (AI)
- 11/18 - 06/19 **Student Assistant**, TUM, Department of Electrical and Computer Engineering
Sentiment Analysis using tensors to enhance Feature Representations
- 06/20 - 08/20 **AI in Portfolio Management Intern**, Assenagon
Developed signals from crawled news headlines using Natural Language Processing (NLP)
- 09/19 - 03/20 **Student Assistant in Machine Learning (ML)**, Infineon Technologies
Applied ML methods to support process optimization in the automotive department

Conferences and Seminars

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| 05/25 | 28 th AISTATS, Mai Khao, Thailand | POSTER |
| 04/25 | 13 th ICLR, Singapore EXPO, Singapore | POSTER |
| 02/25 | University of Prishtina (UP) Math Seminar, UP, Prishtina, Kosovo
<i>Explaining Deep Neural Networks Through Fooling</i> | TALK |
| 03/24 | Deep Learning: Theory, Applications, and Implications, RIKEN Center for Advanced Intelligence Project (AIP), Tokyo, Japan
<i>Minimally Distorted Explainable Adversarial Attacks</i> | TALK |

08/23	10 th International Congress on Industrial and Applied Mathematics, <i>Waseda University</i> , Tokyo, Japan	POSTER
03/23	Workshop on Optimization and ML in Industry, <i>Friedrich-Alexander Universität Erlangen-Nuremberg</i> , Nuremberg, Germany	POSTER
02/23	What is ...? Seminar, <i>BMS</i> , Berlin, Germany <i>What is Backpropagation?</i>	TALK
09/22	3 rd BMS - BGSMATH Junior Meeting, <i>Universitat de Barcelona</i> , Spain <i>Wavelet-based Low Frequency Adversarial Attacks</i>	TALK
06/22	Workshop on First-Order Methods in Optimization, <i>Université catholique de Louvain</i> , Louvain-la-Neuve, Belgium	INVITED
08/21	Deep Learning Theory Summer School, <i>Princeton</i> , NJ, US	PARTICIPANT
03/21	9 th BMS Student Conference, <i>BMS</i> , Berlin, Germany <i>Neural Network Approximation Theory</i>	TALK
01/21	IOL-COGA Research Seminar, <i>TU Berlin/ZIB</i> , Berlin, Germany <i>Neural Network Approximation Theory</i>	TALK
08/19	ERGO ML Workshop, <i>ERGO</i> , Düsseldorf, Germany	PARTICIPANT

Activities

06/23 - 06/24	Co-organizer, Long Night of the Sciences (LNdW), <i>ZIB</i>
08/23	Lecturer, Calculus and Linear Algebra for Data Science, <i>Hertie School</i>
03/21 - 03/22	Co-organizer, MAI Division Seminar, <i>ZIB</i>
10/20 - 08/21	Co-organizer, IOL-COGA Research Seminar, <i>TU Berlin</i>
04/19 - 08/19	Teaching Assistant, Computational Statistics, <i>TUM</i>

Supervision of B.Sc. and M.Sc. Theses

03/25	Kartikeya Chitranshi, M.Sc., <i>TU Berlin</i> <i>On the Robustness of Multi-Modal Foundational Models</i>
09/24	Moritz Wagner, M.Sc., <i>TU Berlin</i> <i>Sparse Adversarial Attacks: A Survey</i>
05/22	Moritz Wagner, B.Sc., <i>TU Berlin</i> <i>Low-Frequency Adversarial Attacks</i>
03/22	Maria Bulychev, B.Sc., <i>TU Berlin</i> <i>Sparse Adversarial Attacks</i>

Distinctions

05/20	Admission to Berlin Mathematical School (BMS)
10/15 - 09/16	University scholarship for achieving the highest GPA of the class
03/11 - 03/13	Three first prizes at Kosovo Mathematical Olympiad
02/11	Third prize at Serbian National Mathematical Olympiad

IT Skills

Languages	Python (Advanced) R (Intermediate)	Libraries: PyTorch, Scikit-learn, Matplotlib
Other	Git, L ^A T _E X	