

Shpresim Sadiku

Curriculum Vitae

Institut für Mathematik, TU Berlin
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*PhD Candidate at TU Berlin/BMS
& Scientific Assistant at ZIB*

Personal Data

Place and date of birth Preshevë (Serbia), March 9, 1996
Citizenship Serbian

Education

- 09/2020 - present **Ph.D., Mathematics**, Technische Universität Berlin (TU Berlin), Germany.
Phase II of Berlin Mathematical School (BMS)
Advisor: Prof. Dr. Sebastian Pokutta
Topic: *Robust and Interpretable Continuous-Depth Neural Networks*
- 10/2017 - 05/2020 **M.Sc., Mathematics in Data Science**, Technische Universität München (TUM), Germany.
Advisor: Prof. Dr. Michael Wolf
Master's thesis (in English):
Adversarial Deformations for Neural Ordinary Differential Equations
- 10/2014 - 07/2017 **B.Sc., Mathematics**, University of Tirana, Albania.
Advisor: Prof. Dr. Artur Baxhaku
- 09/2010 - 06/2014 **High School Diploma**, Gymnasium Skënderbeu, Serbia.

Employment History

Research Positions

- 09/2020 - present **Scientific Assistant**, Zuse Institute Berlin (ZIB), Germany.
Department AI in Society, Science, and Technology (AIS²T)
Research Group Interactive Optimization and Learning (IOL)
- 09/2019 - 03/2020 **Student Assistant**, Infineon Technologies AG, Munich, Germany.
- 11/2018 - 06/2019 **Student Assistant**, TUM, Department of Electrical and Computer Engineering, Munich, Germany.

Internships

- 06/2020 - 08/2020 **Artificial Intelligence in Portfolio Management**, Assenagon Asset Management, Munich, Germany.

Teaching

04/2019 - 08/2019 **Teaching Assistant**, MA3402 - Computational Statistics, *TUM, Department of Mathematics*, Munich, Germany.

Talks

- 03/2021 **BMS - BGSMATH Junior Meeting**, *Universitat de Barcelona*, Barcelona.
Towards Robust Machine Learning
- 03/2021 **9th BMS Student Conference** (online), *Berlin Mathematical School (TU Berlin, FU Berlin, HU Berlin)*, Berlin.
Neural Network Approximation Theory
- 01/2021 **IOL-COGA Research Seminar** (online), *TU Berlin/ZIB*, Berlin.
Neural Network Approximation Theory

Activities

- 10/2020 - 08/2021 Co-organizer, **IOL-COGA Research Seminar** (online), *TU Berlin*.
- 03/2021 - 03/2022 Co-organizer, **MAI Division Seminar** (online), *ZIB*.

Attended Conferences and Workshops

- 09/2022 BMS - BGSMATH Junior Meeting, *Universitat de Barcelona*, Barcelona, Spain.
- 06/2022 First-order methods in optimization, *Université catholique de Louvain*, Louvain-la-Neuve, Belgium.
- 08/2021 Deep Learning Theory Summer School (online), *Princeton*, NJ, US.
- 03/2021 9th BMS Student Conference (online), *Berlin Mathematical School*, Berlin, Germany.
- 08/2019 ERGO Machine Learning Workshop, *ERGO Group*, Düsseldorf, Germany.

Supervision of B.Sc. Theses

- 05/2022 Moritz Wagner, *TU Berlin*.
Low-Frequency Adversarial Attacks
- 03/2022 Maria Bulychev, *TU Berlin*.
Sparse Adversarial Attacks

Distinctions

- 05/2020 Admission to Berlin Mathematical School (BMS).
- 10/2015 - 09/2016 Merit-based scholarship, *University of Tirana*, Albania.
- 03/2011 - 03/2014 Kosovo Mathematical Olympiad, Prishtina, Kosovo.
Three first prizes, one third prize
- 02/2011 Serbian National Mathematical Olympiad, Niš, Serbia.
Third prize

05/2009 - 05/2011 Albanian Nationwide Mathematical Olympiad, Tetovo, North Macedonia.
One second prize, two third prizes

Languages

Human

Albanian Native.

English Fluent.

German Intermediate.

Serbian Intermediate.

Machine

Python Intermediate.

R Intermediate.

MATLAB Intermediate.



Berlin, September 9, 2022