

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 citizen, German permanent resident

Education

- 09/20 - **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*
- 10/17 - 05/20 **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
- 10/14 - 07/17 **B.Sc., Mathematics**, University of Tirana, Albania
Advisor: Prof. Dr. Artur Baxhaku
- 09/10 - 06/14 **High School Diploma**, Gymnasium Skënderbeu, Serbia

Employment History

Research Positions

- 09/20 - **Scientific Assistant**, Zuse Institute Berlin (ZIB), Germany
Department AI in Society, Science, and Technology (AIS²T)
Research Group Interactive Optimization and Learning (IOL)
- 09/19 - 03/20 **Student Assistant**, Infineon Technologies AG, Munich, Germany
- 11/18 - 06/19 **Student Assistant**, TUM, Department of Electrical and Computer Engineering, Munich, Germany

Internships

- 06/20 - 08/20 **Artificial Intelligence in Portfolio Management**, Assenagon Asset Management, Munich, Germany

Teaching

04/19 - 08/19 **Teaching Assistant**, MA3402 - Computational Statistics, *TUM, Department of Mathematics*, Munich, Germany

Attended Conferences and Workshops

- 03/23 Optimization and Machine Learning in Industry, *Friedrich-Alexander-Universität Erlangen-Nuremberg*, Nuremberg, Germany
- 09/22 BMS - BGSMATH Junior Meeting, *Universitat de Barcelona*, Barcelona, Spain
- 06/22 First-Order Methods in Optimization, *Université catholique de Louvain*, Louvain-la-Neuve, Belgium
- 08/21 Deep Learning Theory Summer School, *Princeton*, NJ, US (online)
- 03/21 9th BMS Student Conference, *Berlin Mathematical School*, Berlin, Germany (online)
- 08/19 ERGO Machine Learning Workshop, *ERGO Group*, Düsseldorf, Germany

Activities

- 06/23 Co-organizer, Lange Nacht der Wissenschaften (LNdW), *ZIB*
- 03/21 - 03/22 Co-organizer, MAI Division Seminar, *ZIB*
- 10/20 - 08/21 Co-organizer, IOL-COGA Research Seminar, *TU Berlin*

Talks

- 02/23 What is ...? Seminar, *Berlin Mathematical School (TU Berlin, FU Berlin, HU Berlin)*, Berlin
What is Backpropagation?
- 09/22 BMS - BGSMATH Junior Meeting, *Universitat de Barcelona*, Barcelona
Wavelet-based Low Frequency Adversarial Attacks
- 03/21 9th BMS Student Conference, *Berlin Mathematical School (TU Berlin, FU Berlin, HU Berlin)*, Berlin (online)
Neural Network Approximation Theory
- 01/21 IOL-COGA Research Seminar, *TU Berlin/ZIB*, Berlin (online)
Neural Network Approximation Theory

Scientific Reviewing Activities

Journals Referee

- 11/22 Constructive Approximation

Supervision of B.Sc. Theses

- 05/22 Moritz Wagner, *TU Berlin*
Low-Frequency Adversarial Attacks

03/22 Maria Bulychev, *TU Berlin*
Sparse Adversarial Attacks

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 - 03/14 Three first prizes and one third prize at Kosovo Mathematical Olympiad
02/11 Third prize at Serbian National Mathematical Olympiad

Languages

Human

Albanian Native
English Fluent
German Intermediate
Serbian Intermediate

TOEFL: C1

Goethe-Zertifikat: B1

Machine

Python Advanced
R Intermediate
MATLAB Intermediate



Berlin, June 19, 2023