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

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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 Portofolio 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 (online), *Princeton*, NJ, US

03/21 9th BMS Student Conference (online), *Berlin Mathematical School*, Berlin, Germany

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 (online), *ZIB*

10/20 - 08/21   Co-organizer, IOL-COGA Research Seminar (online), *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 (online), *Berlin Mathematical School (TU Berlin, FU Berlin, HU Berlin)*, Berlin
Neural Network Approximation Theory

01/21   IOL-COGA Research Seminar (online), *TU Berlin/ZIB*, Berlin
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	*TOEFL: C1*
German	Intermediate	*Goethe-Zertifikat: B1*
Serbian	Intermediate	

Machine

Python	Advanced
R	Intermediate
MATLAB	Intermediate

Berlin, June 12, 2023