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. 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. Research Group Interactive Optimization and Learning
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 Portofolio 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   **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 - present   Co-organizer, **MAI Division Seminar** (online), *ZIB*.

Attended Conferences and Workshops

06/2022   First-order methods in optimization, *Université catholique de Louvain*, 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

Moritz Wagner, *TU Berlin* (May 2022).
Low-Frequency Adversarial Attacks

Maria Bulychev, *TU Berlin* (March 2022).
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.
Serbian	Intermediate.
German	Basic.

Machine

Python	Intermediate.
R	Intermediate.
MATLAB	Basic.

Berlin, September 15, 2021