

# 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 Portfolio Management**, Assenagon Asset Management, Munich, Germany.

## Teaching

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

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## 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*

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## Activities

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

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## 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.

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## Supervision of B.Sc. Theses

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

Maria Bulychyev, *TU Berlin* (March 2022).  
*Sparse Adversarial Attacks*

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## 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

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## Languages

## Human

Albanian Native.

English Fluent.

Serbian Intermediate.

German Basic.

## Machine

Python Intermediate.

R Intermediate.

MATLAB Basic.

A stylized, handwritten signature in black ink, located in the bottom right corner of the page. The signature is cursive and appears to be a personal name.

Berlin, June 10, 2022