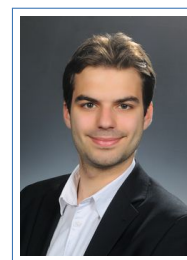


Mones Raslan

Curriculum Vitae

Technische Universität Berlin
Department of Mathematics
Straße des 17. Juni 136
10623 Berlin, Germany
☎ +49 (30) 31427321
✉ raslan@math.tu-berlin.de



Personal Data

Date of Birth February 9, 1993
Place of Birth Leipzig, Germany
Nationality German

Educational Background

School

Sep 04 – Jun 11 **Werner-von-Siemens-Gymnasium**, Berlin.
Jun 11 **Abitur**, Final grade: 1.0.

Academic

Oct 11 – Mar 17 **Studies in Mathematics**, *Technische Universität Berlin*.
Apr 15 **Bachelor's Degree in Mathematics**, *Technische Universität Berlin*, Final grade: 1.3.
Mar 17 **Master's Degree in Mathematics**, *Technische Universität Berlin*, Final grade: 1.0.
Oct 16 – Mar 17 **BMS-Student Phase I**, *Berlin Mathematical School*.
Oct 17 – **BMS-Student Phase II**, *Berlin Mathematical School*.

Working Experience

Oct 13 – Mar 17 **Student Teaching Assistant**, *Technische Universität Berlin*, Department of Mathematics.
Oct 15 – Mar 17 **Student Research Assistant**, *Technische Universität Berlin*, Department of Mathematics, Research Group Applied Functional Analysis.
since Apr 17 **Research Assistant**, *Technische Universität Berlin*, Department of Mathematics, Research Group Applied Functional Analysis.

Journal Publications

Approximation properties of hybrid shearlet-wavelet frames for Sobolev spaces, joint work with P. Petersen, *Advances in Computational Mathematics* (in press), 2019.

Preprints

A Theoretical Analysis of Deep Neural Networks and Parametric PDEs, joint work with G. Kutyniok, P. Petersen and R. Schneider, arXiv:1904.00377, 2019.

Topological properties of the set of functions generated by neural networks of fixed size, joint work with P. Petersen and F. Voigtlaender, arXiv:1806.08459, 2018.

Anisotropic Multiscale Systems on Bounded Domains, joint work with P. Grohs, G. Kutyniok, J. Ma, and P. Petersen, arXiv:1510.04538, 2018.

Honors and Awards

Oct 10 **Pupil's Award**, *Physikalische Gesellschaft zu Berlin*.

- Jun 11 **Admission into the Glemser Stiftung For Future Excellency.**
- Jun 11 **Book Award**, *Deutsche Physikalische Gesellschaft.*
- Nov 15 **Deutschlandstipendium.**
- Nov 15 **Bachelorpreis**, *Berliner Mathematische Gesellschaft.*
- Nov 15 **3rd Place in the Category “Best Bachelor Degree”**, *Dies mathematicus, Technische Universität Berlin.*
- Oct 16 **Admission into the Berlin Mathematical School.**
- Dec 17 **“Best Talk”**, *Dies mathematicus, Technische Universität Berlin.*

Attended Conferences and Scientific Talks

- Jun 16 **Time-Frequency Analysis and Related Topics**, *Strobl, Austria.*
Poster Presentation on “Shearlet Frames for Sobolev Spaces”
- Jul 17 **Reliable Methods of Mathematical Modeling**, *Berlin, Germany.*
Invited Talk on “Adaptive Solution of Elliptic PDEs using Boundary Adapted Shearlets”
- Feb 18 **Rhein-Ruhr-Workshop**, *Bestwig, Germany.*
Talk on “Construction and Approximation Properties of Shearlet Frames for Sobolev Spaces”

Teaching Experience

- Winter 13/14 **Tutor for “Linear Algebra for Engineers”**, *Technische Universität Berlin.*
- Summer 14 **Tutor for “Linear Algebra for Engineers”**, *Technische Universität Berlin.*
- Winter 14/15 **Tutor for “Analysis I for Engineers”**, *Technische Universität Berlin.*
- Summer 15 **Tutor for “Linear Algebra for Engineers”**, *Technische Universität Berlin.*
- Winter 15/16 **Tutor for “Linear Algebra for Engineers”**, *Technische Universität Berlin.*
- Summer 16 **Tutor for “Analysis I for Mathematicians”**, *Technische Universität Berlin.*
- Winter 16/17 **Tutor for “Differential Equations for Engineers”**, *Technische Universität Berlin.*
- Summer 17 **Teaching Assistant for “Functional Analysis I”**, *Technische Universität Berlin.*
- Winter 17/18 **Teaching Assistant for “Functional Analysis II” and “Deep Learning”**, *Technische Universität Berlin.*
- Summer 18 **Teaching Assistant for “Functional Analysis III”**, *Technische Universität Berlin.*
- Winter 18/19 **Teaching Assistant for “Functional Analysis II”**, *Technische Universität Berlin.*
- Summer 19 **Teaching Assistant for “Functional Analysis I”**, *Technische Universität Berlin.*

Monographs

- Ridgelets and Linear Transport Equations**, *Bachelor Thesis, Technische Universität Berlin, 2015.*
- Construction and Analysis of Shearlet Frames for Sobolev Spaces**, *Master Thesis, Technische Universität Berlin, 2017.*

Membership in Mathematical Societies

- Berliner Mathematische Gesellschaft**, BMG.
- Berlin Mathematical School**, BMS.
- Deutsche Mathematiker-Vereinigung**, DMV.