

Martin Genzel

Curriculum Vitae

Technische Universität Berlin
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Personal Data

Date of Birth October 25, 1989
Place of Birth Königs Wusterhausen, Germany
Nationality German

Educational Background

School

Sep 96 – Oct 97 **1. Grundschule Hellersdorf**, Berlin.
Oct 97 – Jul 02 **Grundschule am Wald**, Zeuthen.
Sep 02 – Jul 09 **Friedrich-Wilhelm-Gymnasium**, Königs Wusterhausen.
Jul 09 **Abitur**.

Academic

Oct 09 – Mar 10 **Studies in Material Science (Werkstoffwissenschaften)**, Technische Universität Berlin.
Apr 10 – Jun 15 **Studies in Mathematics**, Technische Universität Berlin.
Sep 13 **Bachelor's Degree in Mathematics**, Technische Universität Berlin.
Oct 13 – Jun 15 **BMS-Student Phase I**, Berlin Mathematical School.
Jun 15 **Master's Degree in Mathematics**, Technische Universität Berlin.
Jul 15 – Mar 19 **BMS-Student Phase II**, Berlin Mathematical School.
Mar 19 **Ph.D. in Mathematics**, Technische Universität Berlin.

Working Experience

Feb 10 – May 13 **Student Research Assistant**, Helmholtz Zentrum Berlin für Materialien und Energie.
Development of software for the analysis of energy-dispersive X-Ray-spectra
Jun 13 – Jun 15 **Student Research Assistant**, Technische Universität Berlin, Department of Mathematics, Research Group Applied Functional Analysis.
since Jul 15 **Scientific Assistant**, Technische Universität Berlin, Department of Mathematics, Research Group Applied Functional Analysis.
Jul 15 – May 17: ECMath Research Project "Sparse compressed sensing based classifiers for -omics mass-data"
Jun 17 – Sep 18: EU Research Project "DEDALE" (Data Learning on Manifolds and Future Challenges)
Since Oct 18: Joint Project "BZML" (Berlin Center for Machine Learning)

Teaching Experience

- Winter 15/16 **Analysis I for Engineers**, *Technische Universität Berlin*, Teaching Assistant.
Summer 16 **Functional Analysis III**, *Technische Universität Berlin*, Preparation of lecture notes.
Summer 19 **Functional Analysis I**, *Technische Universität Berlin*, Lecturer.

Honors and Awards

- Jul – Aug 08 **Admission to Deutsche Schüler Akademie**. Hilden
Participant in the course on “Mathematical Problems of Image Processing”
Oct 13 **Admission to Berlin Mathematical School**
Joint graduate school of Berlin’s universities
Nov 13 **Award “Best Bachelor’s Degree in Mathematics”**
Dies Mathematicus, Technische Universität Berlin
Oct 14 – Jun 15 **Scholarship “Deutschlandstipendium”**. *Technische Universität Berlin*
German scholarship program for gifted students
Nov 15 **Award “Best Master’s Degree in Mathematics”**
Dies Mathematicus, Technische Universität Berlin
Jan 17 **Election as GAMM Junior**
Junior member of the International Association of Applied Mathematics and Mechanics (GAMM)

Invited Research Visits

- Nov 15 **University of Michigan**. Ann Arbor (MI)
Invitation by Prof. Roman Vershynin (2 weeks)
Mar 16 **Hausdorff Research Institute for Mathematics**. Bonn (Germany)
Trimester program “Mathematics of Signal Processing” (2 weeks)
Jan 17 **University of Texas at Austin**. Austin (TX)
Invitation by Prof. Chandrajit Bajaj (1 week)
Nov 17 **Technion – Israel Institute of Technology**. Haifa (Israel)
Invitation by Prof. Yonina Eldar (1 week)
Feb 18 **University College London**. London (UK)
Invitation by Prof. Miguel Rodrigues (1 week)

Invited Talks

- 2016 ▶ **Analysis Oberseminar**. *RWTH Aachen*. November 29, 2016
Title: “Feature Selection From Real-World Data With Non-Linear Observations”
2017 ▶ **ICES Seminar**. *University of Texas at Austin*. Austin (TX). January 17, 2017
Title: “Feature Selection From Real-World Data With Non-Linear Observations”
▶ **Conference “Applied Inverse Problems”**. *Zhejiang University*. Hangzhou (China). May 29, 2017
Title: “Feature Selection From Real-World Data With Non-Linear Observations” (in Minisymposium “Deep Neural Networks: Theory and Application”)
2019 ▶ **Conference “ILAS 2019: Linear Algebra Without Borders”**. *Fundação Getúlio Vargas*. Rio de Janeiro (Brazil). July 11, 2019
Title: “A New Perspective on ℓ^1 -Analysis Recovery” (in Minisymposium “Frame Theory and Data Science”)

Refereeing and Reviewing Work

Referee for the following journals:

- ▶ Constructive Approximation
- ▶ IEEE Transactions on Information Theory
- ▶ IEEE Transactions on Signal Processing
- ▶ Information and Inference
- ▶ International Journal of Wavelets, Multiresolution and Information Processing
- ▶ Journal of Fourier Analysis and Applications
- ▶ Linear Algebra and its Applications
- ▶ Proceedings of Machine Learning Research (Conference on Learning Theory)
- ▶ SIAM Journal on Mathematics of Data Science (SIMODS)

Membership in Professional Societies

- ▶ Berlin International Graduate School in Model and Simulation based Research (BIMoS)
- ▶ Berlin Center for Machine Learning (BZML)
- ▶ Deutsche Mathematiker-Vereinigung (DMV)
- ▶ International Association of Applied Mathematics and Mechanics (GAMM)
- ▶ MATH+ Berlin Mathematics Research Center

Berlin, June 12, 2019