

Technische Universität Braunschweig
Faculty of Life Sciences
Department of Inorganic and Analytical Chemistry
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PERSONAL DATA

DATE OF BIRTH	8 March 1981
Place of Birth	Wolgast
NATIONALITY	German

SCIENTIFIC EDUCATION

- 1999: University entrance diploma (Abitur)
- 2000–2003: Apprenticeship as a chemical laboratory assistant at BASF SE in Ludwigshafen (Rhine)
- 2003–2009: Undergraduate and graduate studies at the University of Leipzig, grades as Bachelor (B.Sc.) and Master of Science (M.Sc.).
Research period (10 months) at Monash University (Melbourne/Australia) dealing with the synthesis of lanthanoide complexes under the supervision of Prof Glen B. Deacon und Prof Peter C. Junk.
Master project in theoretical chemistry supervised by Prof Barbara Kirchner with the title “Computational Studies of Phosphorus Compounds”
- 2009–2012: PhD project in Inorganic Chemistry at the University of Leipzig under the supervision of Prof Evamarie Hey-Hawkins dealing with “Boron Cluster Based Carboxylic Acids for Incorporation into Breast Tumour Selective Peptides for Boron Neutron Capture Therapy”. The studies were supported with a PhD grant “Kekulé scholarship” by the “Fonds der Chemischen Industrie”.
- 2012–2014: Postdoctoral Research at the University of Oxford (UK) on the synthesis of transition metal boryl complexes from boryl anions under the supervision of Prof Simon Aldridge und Prof D. Michael P. Mingos. The studies were supported with a postdoc grant “Feodor-Lynen scholarship” by the “Alexander-von-Humboldt Foundation”.
- 2015: Independent research at Technische Universität Braunschweig. Scientific interests include all aspects of state-of-the-art boron chemistry, i.e. nucleophilic boron compounds, low-valent boron compounds, boron in multiple bonds, photoactivity of boron compounds including applications thereof. The studies were

supported by a return grant “Feodor-Lynen return scholarship” by the “Alexander-von-Humboldt Foundation”.

2016: Establishment of an independent research group at Technische Universität Braunschweig within the “Liebig fellowship” programme by the “Fonds der Chemischen Industrie”. Research interests include all aspects of state-of-the-art boron chemistry including nucleophilic boron compounds, low-valent boron compounds, boron in multiple bonds and applications thereof.

Since 2022: Research grant by the “Deutsche Forschungsgemeinschaft” as an independent research group leader.

FUNDING ACQUISITION

Since 2016 the independent research activities have continuously been supported by the following organizations:

1.) Grant by the Fonds der Chemischen Industrie

- Liebig Fellowship (ID-code Li 197/06)



2.) Grants by the Deutsche Forschungsgemeinschaft

- FR 3329/3-1 (doctoral student, material expenses, 36 months)
- FR 3329/5-1 (doctoral student, material expenses, 36 months)
- FR 3329/11-1 (independent position, material expenses, 36 months)



3.) Grant by the Turkish “National Boron Research Institute” (BOREN)

- Doctoral scholarship for Dr. Zeynep Güven (36 months)



SUPERVISION ACTIVITIES

The stated PhD candidates have successfully been supervised by Dr. René Frank as the first adviser during their PhD projects. All PhD-theses were composed in the cumulative form, in which each PhD candidate earned at least three publications as a first author.

- Dr. Richard Böser (July 2019)
- Dr. Hadi Dolati (December 2023)
- Dr. Lars Denker (August 2024)
- Dr. Zeynep Güven (December 2024)

Further activities include the supervision of Bachelor and Master theses carried out at the Institute of Inorganic and Analytical Chemistry.

TEACHING ACTIVITIES

Dr. René Frank has regularly given the stated teaching modules within the Bachelor of Science coursework at Technische Universität Braunschweig.

- Analytical Chemistry (lecture, seminar, practical course) - summer term for study courses "Chemistry" and "Food Chemistry" - since 2018
- Inorganic Chemistry (lecture, seminar) - winter term for study courses "Biology", "NEEMO" and "BEE" - since 2022

HONOURS AND ACKNOWLEDGEMENTS

Arthur-Hantzsch-Award 2004, Ernst-Beckmann-Award 2006, Hermann-Kolbe Award 2008 all three donated by the University of Leipzig for excellent study course work

Young-Chemist-Award donated by the "Wilhelm-und-Else-Heraeus-Foundation" 2008

PhD scholarship granted by the "Fonds der Chemischen Industrie"

Dissertation Award 2012 donated by the Research Academy Leipzig (RAL)

Postdoctoral Scholarship granted by the Alexander-von-Humboldt Foundation within the Feodor-Lynen-Programme for two years (University of Oxford, UK) and Return Scholarship granted by the Alexander-von-Humboldt Foundation (Technische Universität Braunschweig).

Researcher scholarship granted by the "Fonds der Chemischen Industrie" Association within the Liebig-Programme.