

Curriculum Vitae

Dr.-Ing. Bernhard Vowinckel



Research Topics

Sediment transport in environmental and geophysical flows
Numerical simulations of hydraulic-mechanically coupled systems
High Performance Computing of Computational Fluid Dynamics and multiphase flows
Hydraulic engineering and fluvial processes

Current Position

Since 03/2020 **Emmy Noether Fellow / Junior Research Group Leader**
Technische Universität Braunschweig
Leichtweiß-Institute for Hydraulic Engineering and Water Resources



Scientific Background

12/2018-02/2020 **Research Associate, geotechnical analyses**
Federal Institute for Geosciences and Natural Resources (BGR, Germany)



06/2018-11/2020 **Senior Postdoctoral Research Fellow, Feodor-Lynen Rückkehrer Fellow**
Leichtweiß-Institute for Hydraulic Engineering and Water Resources
with Prof. Dr. Jochen Aberle,



06/2015-05/2018 **Postdoctoral Research Fellow, Feodor-Lynen Fellow**
Department of Mechanical Engineering, University of California Santa Barbara,
Santa Barbara/CA, USA
with Prof. Dr. Eckart Meiburg and Prof. Dr. Paolo Luzzatto-Fegiz,



01/2010-03/2015 **Doctoral Studies (Dr.-Ing.)**
Institute of Fluid Mechanics, Technische Universität Dresden, Dresden/ Germany
with Prof. Dr.-Ing. habil. Jochen Fröhlich



10/2006-11/2009 **Diploma (Hydrology), Hauptstudium**
Technische Universität Dresden, Dresden/ Germany



10/2003-09/2006 **Vordiplom (Hydrology), Grundstudium**
Albert-Ludwigs-University, Freiburg/ Germany



Scholarships and Awards

09/2020 Invited speaker at the Discussion Meeting *Sediment Transport in the Ocean and Droplet Transport in Clouds* at the International Centre for Theoretical Sciences, Bangalore, India (cancelled due to the COVID-19 pandemic)

Since 07/2020 Appointed member of the Junge BWG (Braunschweigische Wissenschaftliche Gesellschaft)

06/2020 *Agnes-Pockels Fellowship* offered to highly-qualified external researchers from the Technische Universität Braunschweig

Since 03/2020 Emmy-Noether Research Grant funded by DFG

09/2019 *Young Investigator Spotlight* at the THESIS-2019 Symposium, Newark, Delaware, USA

06/2018-11/2018 *Feodor-Lynen Rückkehrer fellow* of the *Alexander-von-Humboldt* foundation

06/2018 Outstanding contribution in Reviewing *European Journal of Mechanics / B Fluids*

08/2017 *Harold Jan Schoemaker Award* for the most outstanding paper in the *Journal of Hydraulic Research* during the period 2014-2016

06/2015-05/2017 *Feodor-Lynen fellow* of the *Alexander-von-Humboldt* foundation