

# Supplementary information

## **Supervision or co-supervisor\*/examiner\*\***

(Postdoc, PhD, MSc, BSc, State exam and Diplom Theses)

- Adolph, Marie-Luise (**Postdoc**, University of Greifswald, 2024-2027)
  - o Topic: Deep biosphere-geosphere interactions at the top of the world (DIGESTED): An interdisciplinary approach to interpret a Myr climate record from Lake Nam Co, Tibetan Plateau - Sedimentary Context
- Ruchkin, Maksim (**Postdoc**, University of Greifswald, 2024-2025)
  - o Topic: Sedimentological analyses and OSL dating on sediments from Schweriner See
- Dreßler, Mirko (**Postdoc**, University of Greifswald, 2022-2024)
  - o Topic: Diatom analyses on sediments from Schweriner See
- Czerwiński, Sambor (**Postdoc**, University of Greifswald, 2022-2023)
  - o Topic: Pollen analyses on sediments from Schweriner See
- Seeliger, Martin (**Postdoc**, University of Greifswald, 2021-2022)
  - o Topic: Lecturer in teacher education program
- Viehberg, Finn (**Postdoc**, University of Greifswald, 2018-2021)
  - o Topic: Tracking Human and Climate impacts in South Africa (TRACES)
- Kasper, Thomas (**Postdoc**, Friedrich-Schiller-University Jena, 2015-2018)
  - o Topic: Paleoenvironmental and climatic reconstructions in the winter rainfall zone (WRZ) of South Africa using integrated investigations of lacustrine and marine archives
- Otero, Santiago (**PhD**, University of Greifswald, ongoing)
  - o Project, German Research Foundation (DFG)
  - o Topic: Paleomagnetic investigations to better understand the earth's magnetic field and its interaction with biological communities on the Tibetan Plateau and to validate and refine the chronology of sediment sequences recovered in the ICDP project NamCore (MagNam)
- Krauß, Nikolas (**PhD**, University of Greifswald, 2025)
  - o Project, German Research Foundation (DFG)
  - o Topic: The maximum extent of the Scandinavian Ice Sheet during the Weichselian Glaciation at its south-western periphery – a multiphase act?
- Adolph, Marie-Luise (**PhD**, University of Greifswald, 2024)
  - o Scholarship, Landesgraduierten Stipendium/ Project, German Research Foundation (DFG)
  - o Topic: Late Pleistocene and Holocene hydrological variations in the North German Plain using the example of Lake Schwerin
- \*\*Bittner, Lucas (**PhD**, TU Dresden, 2022)
  - o Topic: Paleoclimate reconstruction using biomarker and stable isotope analyses of lake sediments in the Bale Mountains, Ethiopia
- Mehlhorn, Paul (**PhD**, University of Greifswald, 2022)
  - o Project, Federal Ministry of Education and Research (BMBF)
  - o Topic: Tracking Human and Climate impacts in South Africa (TRACES)
- \*Strobel, Paul (**PhD**, Friedrich-Schiller-University Jena, 2022)
  - o Scholarship, Landesgraduierten Stipendium / Project, German Research Foundation (DFG)
  - o Topic: Late Quaternary climate and environmental reconstruction based on lake and peat sediments from the central southern Cape region of South Africa

- \*du Plessis, Nadia (**PhD**, University of Cape Town, 2021)
  - o Topic: Late Holocene Environmental and Climate Dynamics along the Cape Coast of South Africa: High Resolution Multi-Proxy Records from the Wilderness Embayment
- \*\*Kliem, Pierre (**PhD**, University of Bremen, 2019)
  - o Topic: Climatic and environmental change during Marine Isotope Stages 3, 2 and 1 in southern Patagonia – Evidences from Laguna Potrok Aike (Argentina)
- Wündsch, Michael (**PhD**, Friedrich-Schiller-University Jena, 2017)
  - o Project, Federal Ministry of Education and Research (BMBF)
  - o Topic: Holocene environmental change at the southern Cape coast of South Africa – Coastal lake sediment records from Eilandvlei and Groenvlei
- \*Ahlborn, Marieke (**PhD**, Friedrich-Schiller-University Jena, 2015)
  - o Project, German Research Foundation (DFG)
  - o Topic: Moisture availability in the Tangra Yumco region during the Late Quaternary and the implications for the precipitation regime on the southern Tibetan Plateau
- \*Kasper, Thomas (**PhD**, Friedrich-Schiller-University Jena, 2014)
  - o Zeiss Scholar
  - o Topic: Tracking Monsoon variability and climatic change on the central Tibetan Plateau since the Last Glacial Maximum - A 24,000 year record from Lake Nam Co
- \*Baby, Abin (**MSc**, University of Greifswald, ongoing)
  - o Topic: Clay mineralogy of soil and sediments of Nam Co, China and implications for climate studies
- \*Biedermann, Lilli (**MSc**, University of Greifswald, 2023)
  - o Topic: Characterisation of sediments from Lago Enriquillo, Dominican Republic, using a micropalaeontological approach
- \*Dharmasiri, Shashikala (**MSc**, University of Greifswald, 2020)
  - o Topic: Reconstructing water level fluctuations in the Kieshofer Moor basin
- \*Gregori, Christian-David (**MSc**, Friedrich-Schiller-University Jena, 2019)
  - o Topic: Human Impact on Danau Lindu (Sulawesi, Indonesia) and the catchment area for the last 940 years
- \*Maboya, Matjie Lillian (**MSc**, University of Cape Town, 2019)
  - o Topic: Palaeoenvironmental reconstruction in South Africa's year-round rainfall zone using multiproxy geochemical analyses on lake sediments from Swartvlei
- Rauh, Patricia (**MSc**, Friedrich-Schiller-University Jena, 2018)
  - o Topic: Classification of two soils formed on dunes in the southern cape coast, South Africa
- Strobel, Paul (**MSc**, Friedrich-Schiller-University Jena, 2017)
  - o Topic: Paleoenvironmental investigations on peat sediments from Vankervelsvlei in the year-round rainfall zone of South Africa
- \*Gander, Lukas (**MSc**, Friedrich-Schiller-University Jena, 2016)
  - o Topic: Micropaleontological investigations of the Holocene marine transgression at the southern coast of South African – title translated
- \*Gründler, Nadine (**MSc**, Friedrich-Schiller-University Jena, 2016)
  - o Topic: Quaternary microfossils of the South African West Coast as paleoenvironmental indicators – title translated
- Linß, Vanessa (**MSc**, Friedrich-Schiller-University Jena, 2016)
  - o Topic: Palaeoenvironmental investigations on a sediment core from Verlorenvlei, Western Cape, South Africa with a special focus on anthropogenic influence

- Leser, Thomas (**MSc**, Friedrich-Schiller-University Jena, 2015)
  - o Topic: Palaeoenvironmental investigations on a sediment core from Bo-Langvlei, Southern Cape, South Africa
- Wündsch, Michael (**MSc**, Friedrich-Schiller-University Jena, 2013)
  - o Topic: Paleoenvironmental reconstructions using sediments from Lake Kalimpaa, Sulawesi, Indonesia
- \*St-Onge, Marie-Pier (**MSc**, University of Québec at Rimouski, 2012)
  - o Thesis: Physical and magnetic properties of Baffin Bay sediments: a record of environmental and paleomagnetic secular variation changes during the Holocene – title translated
- Franz, Sarah (**MSc**, Friedrich-Schiller-University Jena, 2012)
  - o Thesis: Geochemical and sedimentological investigations on lake sediments from Swartvlei in order to reconstruct late Holocene paleoenvironmental dynamics of the Garden Route National Park, South Africa – title translated
- \*Reinwarth, Bastian (**MSc**, Friedrich-Schiller-University Jena, 2012)
  - o Thesis: The sedimentary record of Eilandvlei, Wilderness coast area, South Africa
- Mächler, Kim (**BSc**, University of Greifswald, 2025)
  - o Thesis: Characterisation of potential seagrass meadow sites in the Greifswald Bodden – title translated
- \*Rogge, Nico (**BSc**, University of Greifswald, 2025)
  - o Thesis: Ostracods as bioindicators for paleoenvironmental conditions in tropical Lake Lago Enriquillo (Dominican Republic)
- \*Baake, Alexander (**BSc**, University of Greifswald, 2025)
  - o Thesis: Evaluation and interpretation of bathymetric and sedimentechographic data from Stechlinsee (Brandenburg, Germany) – title translated
- \*Müller, Kaja (**BSc**, University of Greifswald, 2024)
  - o Thesis: Characterisation of surface sediments from Lake Stechlinsee, NE-Germany – title translated
- \*Boetzel, Nele (**BSc**, University of Greifswald, 2024)
  - o Thesis: Morphological investigations on carbonatic peloids in lake sediments from Lago Enriquillo (Dominican Republic) – title translated
- Gartz, Tanita (**BSc**, University of Greifswald, 2023)
  - o Thesis: Environmental reconstruction based on investigations on a sediment core from Lago Enriquillo, Dominican Republic – title translated
- Welk, Lea (**BSc**, University of Greifswald, 2022)
  - o Thesis: Environmental reconstruction based on investigations on a sediment core from Lake Hohenroth (Lower Franconia) – title translated
- Brüggemann, Annemarie (**BSc**, University of Greifswald, 2022)
  - o Thesis: Environmental reconstruction based on sedimentological investigations on a sediment core from Cubhu lake, South Africa – title translated
- Lübeck, Erik (**BSc**, University of Greifswald, 2022)
  - o Thesis: Sedimentological investigations on cores from the Mhlathuze floodplain, KwaZulu-Natal, South Africa – title translated
- Ulandowski, Friederike (**BSc**, University of Greifswald, 2022)
  - o Thesis: Investigating surface sediments from Lake Mzingazi, KwaZulu-Natal, South Africa – title translated
- \*Feldmann, Isabella (**BSc**, University of Greifswald 2021)
  - o Thesis: An integrative paleoecological approach on multiple core sites in Lake Mzingazi (KwaZulu Natal, South Africa)
- Türk, Johanna (**BSc**, University of Greifswald, 2020)
  - o Thesis: Hydrochemical investigations on selected small water bodies on agricultural land in the vicinity of Greifswald during midsummer – possible consequences for amphibians – title translated

- \*Oßowski, Julia (**BSc**, Friedrich-Schiller-University Jena, 2017)
  - o Thesis: Soil geochemical and geophysical characterization of a Neolithic slot pit (Schlitzgrube) – title translated
- \*Biehl, Thomas (**BSc**, Friedrich-Schiller-University Jena, 2016)
  - o Thesis: Holocene paleolimnological investigations of Großer Frankenteich at Stralsund – title translated
- \*Müller, Isabelle (**BSc**, Friedrich-Schiller-University Jena, 2016)
  - o Thesis: Micropaleontological and sedimentological investigations of the Holocene section of Xuru Co (Tibet) – title translated
- Schröter, Sascha (**BSc**, Friedrich-Schiller-University Jena, 2015)
  - o Thesis: Biogenic silica as paleoclimatic indicator at Eilandvlei (South Africa) – title translated
- \*Braun, Elisabeth (**BSc**, Friedrich-Schiller-University Jena, 2015)
  - o Thesis: Comparison of chemical and physical soil properties in anthills of the Yellow Meadow Ant (*Lasius flavus*) and ant free control areas in the Hainich, Thuringia – title translated
- \*Jakobsmeyer, Tim (**BSc**, Friedrich-Schiller-University Jena, 2015)
  - o Thesis: Micropalaeontological investigations of a Holocene sediment core from the Rondevlei, South Africa
- \*Abramowski, Nadine (**BSc**, Friedrich-Schiller-University Jena, 2014)
  - o Thesis: Reconstruction of historical environmental changes inferred from a sediment core from the Knysna Estuary, South Africa
- \*Damm, Jonas (**BSc**, Friedrich-Schiller-University Jena, 2014)
  - o Thesis: Micropalaeontological investigations of a Holocene sediment core of Bolangvlei, South Africa
- \*Willomeit, Annika (**BSc**, Friedrich-Schiller-University Jena, 2014)
  - o Thesis: Micropaleontological and sedimentological investigations on a Holocene sediment core from the Knysna Estuary, South Africa – title translated
- \*Bleile, Natalie (**BSc**, Friedrich-Schiller-University Jena, 2013)
  - o Thesis: Micropaleontological investigations on a Holocene sediment core from Taro Co, Central Tibetan Plateau – title translated
- Mattern, Max-Otto (**BSc**, Friedrich-Schiller-University Jena, 2013)
  - o Thesis: Problems of iron hydroxide deposition in drainage channels of Lusatia, the example of the Ostergraben in Werda – title translated
- \*Rauh, Patricia (**BSc**, Friedrich-Schiller-University Jena, 2013)
  - o Thesis: Charcoal as indicator for climatic and anthropogenic influence on Holocene sediments – title translated
- Bürger, Carolin (**BSc**, Friedrich-Schiller-University Jena, 2011)
  - o Thesis: Characterisation of the sediment supply at Vankervelsvlei (South Africa) using grain size analyses – title translated
- \*Clausnitzer, Siegfried (**BSc**, Friedrich-Schiller-University Jena, 2011)
  - o Thesis: Bathymetric and shallow seismic analyses of hydroacoustic profiles from lakes Eilandvlei, Rondevlei and Swartvlei in the Garden Route National Park, Wilderness Coastal Section, South Africa – title translated
- Wündsch, Michael (**BSc**, Friedrich-Schiller-University Jena, 2010)
  - o Thesis: Documentation and characterisation of sediment cores from Lake Bernshäuser Kutte, Germany – title translated
- Stopp, Annemarie (**BSc**, University of Göttingen, 2008)
  - o Thesis: Neodymium and strontium signatures of probably eolian deposited sediments from Laguna Potrok Aike, Patagonia – title translated
- Gutknecht, Benjamin (**BSc**, University of Göttingen, 2008)
  - o Thesis: Organic geochemistry (CNS analyses) on a sediment core from Lake Kalimpaa (Indonesia) – title translated

- Froherz, Leonhardt (**State exam**, University of Greifswald, 2025)
  - o Thesis: Paleoenvironmental Reconstructions based on Sedimentological Investigations of a Sediment Core from Aknalich, Armenia
- \*Molaie, Isabelle (**State exam**, University of Greifswald, 2024)
  - o Thesis: Environmental reconstruction based on sedimentological investigations of a sediment core from the Mhlathuze estuary, South Africa – title translated
- Rahmann, Alexander (**State exam**, University of Greifswald, 2024)
  - o Thesis: Paleoenvironmental reconstructions based on lacustrine sediments from Black Bass Pool, South Africa
- Haker, Annelie (**State exam**, University of Greifswald, 2023)
  - o Thesis: Lake sediments from Lake Sevan (Armenia) mirroring anthropogenic impact – title translated
- Hoffmann, Anna (**State exam**, University of Greifswald, 2023)
  - o Thesis: Depositional dynamics in Lago Enriquillo, Dominican Republic – title translated
- Amelung, Ulrike (**State exam**, University of Greifswald, 2022)
  - o Thesis: Paleomagnetic investigations on sediments from Lake Sevan, Armenia
- Rohrbach, Marius (**State exam**, University of Greifswald, 2020)
  - o Thesis: Paleoenvironmental Reconstructions Based on Sedimentological Investigations of a Sediment Core from Lake Mzingazi, South Africa
- Heinze, Cirstin (**State exam**, Friedrich-Schiller-University Jena, 2017)
  - o Thesis: Paleoenvironmental reconstructions on a sediment core from an oxbow lake of Touw River, South Africa – title translated
- \*Greiner, Florian (**State exam**, Friedrich-Schiller-University Jena, 2017)
  - o Thesis: The soil below my feet – A concept for experimental learning in nature – title translated
- Eck, Andreas (**State exam**, Friedrich-Schiller-University Jena, 2017)
  - o Thesis: Sedimentological investigations on gravity cores from Haussee, Schmaler- and Breiter Luzin of the Feldberger Seenland (Mecklenburg-Vorpommern) – title translated
- \*Schubert, David (**State exam**, Friedrich-Schiller-University Jena, 2016)
  - o Thesis: Paleoecological reconstruction of sediment dynamics at Titisee (Black Forest) based on geochemical and sedimentological investigations on a 5000-year spanning core – title translated
- Sprafke, Julia (**State exam**, Friedrich-Schiller-University Jena, 2016)
  - o Thesis: Limnogeological investigations at Frau-Holle-Teich at Hoher Meißner – title translated
- Wagner, Sandra (**State exam**, Friedrich-Schiller-University Jena, 2015)
  - o Thesis: Environmental reconstructions based on sedimentological investigations on a core from Rondevlei, Garden Route National Park, South Africa – title translated
- Lederer, Martin (**State exam**, Friedrich-Schiller-University Jena, 2015)
  - o Thesis: Investigating the distribution of major and trace elements in the surface sediments of Verlorenvlei, Western Cape, South Africa – title translated
- Reuß, Thomas (**State exam**, Friedrich-Schiller-University Jena, 2015)
  - o Thesis: Investigating the distribution of major and trace elements in the surface sediments of Eilandvlei, Garden Route National Park, South Africa – title translated
- Bielert, Martin (**State exam**, Friedrich-Schiller-University Jena, 2014)
  - o Thesis: Biogenic silica as paleoclimatic indicator at Nam Co (Tibet) – title translated

- \*Kaufmann, Willi (**State exam**, Friedrich-Schiller-University Jena, 2010)
  - o Thesis: Evaluation of methods against desertification using the examples of the Sahel and China – title translated
- \*Fürstenberg, Sascha (**Diplom**, Friedrich-Schiller-University Jena, 2013)
  - o Thesis: Phenotypical variation in *Leucocytherella sinensis* HUANG, 1982 – a new proxy for palaeosalinity in Tibetan lakes and its application

### ***Supervision of international guests (Postdoc, PhD, MSc, BSc)***

- Kirsten, Kelly  
(**Postdoc**, University of Cape Town, South Africa, 2 months, DAAD scholarship for studies at University of Greifswald, 2022; 6 months, DAAD scholarship for studies at Friedrich-Schiller-University Jena, 2015-2016)
- Ma, Qingfeng  
(**Postdoc**, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, China, 3 months, scholarship from DFG priority program 1372: Tibetan Plateau: Formation-Climate-Ecosystems (TiP) for studies at Friedrich-Schiller-University Jena, 2015)
- Ghazaryan, Gor  
(**PhD**, Institute of Geological Sciences, National Academy of Sciences of Armenia, 3 months, DAAD Leonhard Euler Program at University of Greifswald, 2025)
- Grigoryan, Taron  
(**PhD**, Institute of Geological Sciences, National Academy of Sciences of Armenia, 3 months, DAAD Leonhard Euler Program at University of Greifswald, 2023)
- Hovakimyan, Hayk  
(**PhD**, Institute of Geological Sciences, National Academy of Sciences of Armenia, 3 months, DAAD Leonhard Euler Program at University of Greifswald, 2023)
- Su, Youliang  
(**PhD**, Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China, 3 months, scholarship from DFG priority program 1372: Tibetan Plateau: Formation-Climate-Ecosystems (TiP) for studies at Friedrich-Schiller-University Jena, 2013)
- Aleksanyan, Armine  
(**MSc**, Institute of Geological Sciences, National Academy of Sciences of Armenia, 3 months, DAAD Leonhard Euler Program at University of Greifswald, 2025)
- Enoch, Talia  
(**MSc**, University of KwaZulu-Natal, South Africa, 1 month, DAAD SPACES II CaBuDe: Scholarships for Foreigners at University of Greifswald, 2024)
- Mtshali, Nozizwe  
(**MSc**, University of KwaZulu-Natal, South Africa, 1 month, DAAD SPACES II CaBuDe: Scholarships for Foreigners at University of Greifswald, 2024)
- Nersisyan, Araksya  
(**MSc**, Institute of Geological Sciences, National Academy of Sciences of Armenia, 3 months, DAAD Leonhard Euler Program at University of Greifswald, 2021)
- Sahakyan, Kristina  
(**MSc**, Institute of Geological Sciences, National Academy of Sciences of Armenia, 3 months, DAAD Leonhard Euler Program at University of Greifswald, 2021)
- Troelstra, Veerle  
(**MSc**, University College London, UK, 3 months, DAAD RISE at University of Greifswald, 2021)
- Maboya, Lillian  
(**MSc**, University of Cape Town, South Africa, 4 months, DAAD scholarship for studies at Friedrich-Schiller-University Jena, 2017)

- Gerstler, Kaitlyn  
(**BSc**, The State University of New York Geneseo, USA, 3 months, DAAD RISE at University of Greifswald, 2022)

## ***University services***

- Director of Institute for Geography and Geology, University of Greifswald, since 2025
- Deputy Member of Award Committee for Graduate Funding of the University of Greifswald, since 2022
- Board of examiners BSc Geography, University of Greifswald, since 2020
- Internship coordinator for BSc Geography, University of Greifswald, since 2019
- Deputy director of Institute for Geography and Geology, University of Greifswald, since 2024-2025
- Appointment committee W2-professorship for General Geology, University of Greifswald, 2023/24
- Appointment committee W3-professorship for Geodynamics and Structural Geology, University of Greifswald, 2021-23
- Appointment committee W3-professorship for Applied Geology, University of Greifswald, 2021/22
- Appointment committee W3-professorship for Peat Science, University of Greifswald, 2021/22
- Appointment committee W2-professorship for Paleontology, University of Greifswald, 2019/20
- Appointment committee W3-professorship for Peat Science, University of Greifswald, 2019
- Appointment committee W2-professorship for Geographic Information Systems and Remote Sensing, University of Greifswald, 2018/19
- Institute council, Institute of Geography, Friedrich-Schiller-University Jena, representative for junior-level faculty, 2016-2018
- Board of examiners MSc Geography, Friedrich-Schiller-University Jena, 2017-2018
- Substitute board of examiners MSc Geography, Friedrich-Schiller-University Jena, 2015-2017
- Substitute faculty council, Faculty for Chemistry and Earth Sciences, Friedrich-Schiller-University Jena, 2013-2016
- Substitute appointment committee W3-professorship Physical Geography, Friedrich-Schiller-University Jena, 2015
- Appointment committee W3-professorship Economic Geography, Friedrich-Schiller-University Jena, 2013

## ***Invited Talks***

- Umweltveränderungen der letzten 14.000 Jahre rekonstruiert an Sedimenten des Schweriner Sees - Zwischen natürlichen Klimaschwankungen und anthropogenen Eingriffen. Landschaftsgeschichtliches Kolloquium Rings um das Malchiner Becken, Malchin, 22 January 2025
- News from the ICDP Project NamCore, Tibet - (hopefully) shortly after the drilling, GeoSaxonia 2024, Dresden, 24 September 2024
- Lake research on the Tibetan Plateau, Department of Palynology and Climate Dynamics, University of Göttingen, Göttingen, 15 April 2024
- NamCore, IV. International Conference on Continental Scientific Drilling, Potsdam, 21-23 July 2023
- Corroborating chronologies using paleomagnetic secular variations, Dating Methods in Environmental Sciences. 1<sup>st</sup> Scientific Symposium of the Core Facility Environmental Analytics at TU Dresden, Dresden, 15-16 June 2023

- Seenforschung auf dem Dach der Welt - Was uns Sedimente über die Vergangenheit des Hochlandes von Tibet erzählen, Geowissenschaftliches Kolloquium, Technische Universität Dresden, Dresden, 3 May 2023
- Monsoon on the roof of the word - the road to an ICDP drilling at Lake Nam Co Monsoon Seminar Series, Online at <https://www.monsoongeoseminars.com/>, 9 November 2022
- Umweltforschung auf dem Dach der Welt, Open lecture at town hall of the city of Greifswald (Universität im Rathaus), Greifswald, Germany, 24 October 2022
- Die Entwicklungsgeschichte des Schweriner Sees von der Eiszeit bis heute – Befunde aus den Sedimentkernen, 25. Gewässersymposium des LUNG, Bad Doberan, Germany, 22 June 2022
- Water on the Roof of the World - What lake sediments tell us about the climatic history of Tibet, Szczecin Geoscience Seminars, University of Szczecin, Szczecin, Poland, 14 March 2019
- What paleolimnological investigations in Tibet tell us about Indian Monsoon – El Niño interactions, Geoecological Colloquium, Institute of Geoecology, TU Braunschweig, Braunschweig, Germany, 19 January 2017
- From the roof of the world to the southern tip of Africa – Global environmental change reconstructed on local sediment archives, Appointment procedure of W2 – professorship “Physical Geography”, University of Greifswald, Greifswald, Germany, 11 July 2016
- Limnogeology on the roof of the world – Global climate change as reflected in local Tibetan lake sediment sequences, NugGed Seminar, Institute of Neotectonics and Natural Hazards, RWTH Aachen University, Aachen, Germany, 30 June 2016
- An ICDP deep drilling at Lake Nam Co, Sino-German Forum for Young Scientists, Glacier and Lake Changes in the Third Pole Region and Their Responses to Global Change, Kunming/Lijiang, China, 23 October 2015
- New Paleomagnetic Secular Variation records from various lakes on the Tibetan Plateau, 2015 Joint Assembly, Montreal, Canada, 5 May 2015
- Environmental Research on the Roof of the World, Open lecture of the Chemical and Geoscience Faculty, Friedrich-Schiller-University Jena, Jena, Germany, 6 December 2014
- Lake- and Paleoenvironmental Research on the Roof of the World, Institute of Geography, University of Erlangen-Nuremberg, Erlangen, Germany, 3 December 2014
- Tracking Monsoon Variations on the Tibetan Plateau Using Lake Sediments, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, Beijing, China, 18 April 2014
- Paleoenvironmental Change on the Roof of the World, Lecture series in Ecology and Environmental Research, Bayreuth Center of Ecology and Environmental Research (BayCEER), Bayreuth, Germany, 10 April 2014
- Late Quaternary Paleoclimatology and Limnogeology on the Roof of the World, Chair in General and Historical Geology, Institute of Earth Sciences, Friedrich-Schiller-University, Jena, Germany, 29 January 2013
- Lateglacial and Holocene Monsoon Dynamics on the Central Tibetan Plateau, Geopolar, Institute of Geography, University of Bremen, Bremen, Germany, 25 January 2011
- The day after the 8.2 ka event - What sediments tell us about the Postglacial of the Hudson Bay Marine System, Geopolar, Institute of Geography, University of Bremen, Bremen, Germany, 16 June 2009
- Paleoenvironmental change at the southern end of the world - From the first cores to the ICDP deep-drilling PASADO, Les Séminaires du Geotop, University of Québec at Montréal, Montréal, Canada, 19 January 2009
- From SALSA to PASADO: High-resolution multi-proxy paleoenvironmental reconstruction from Patagonian lake sediments, ISMER (Institut des sciences de la mer de Rimouski), Rimouski, Canada, 11 June 2008

- Sediment core from the center of Laguna Potrok Aike covering 16,000 years: coring, chronology and sedimentology, International Continental Drilling Program (ICDP) Workshop: PASADO (Potrok Aike Lake Sediment Archive Drilling Project), Río Gallegos, Argentina, 16-20 March 2006
- Tephrochronology of Laguna Potrok Aike Sediments, International Continental Drilling Program (ICDP) Workshop: PASADO (Potrok Aike Lake Sediment Archive Drilling Project), Río Gallegos, Argentina, 16-20 March 2006

## Reviews

- Alexander von Humboldt-Stiftung (AvH, Germany)
- Chilean National Science and Technology Commission (CONICYT, Chile)
- Deutsche Forschungsgemeinschaft (DFG, German Research Foundation)
- European Research Council (ERC)
- Fonds Wetenschappelijk Onderzoek – Vlaanderen (FWO, Belgium)
- Forskningsrådet (The Research Council of Norway)
- FWF Der Wissenschaftsfonds (FWF Austrian Science Fund, Austria)
- Israel Science Foundation (ISF, Israel)
- National Fund for Scientific and Technological Research of Chile (FONDECYT)
- Netherlands Organisation for Scientific Research (NWO)
- rannís (The Icelandic Centre for Research, Iceland)
- Swiss National Science Foundation (SNF)
- The Open University of Israel
- Climate of the Past (CP)
- Earth and Space Science
- Global and Planetary Change
- Hydrobiologia
- International Journal of Earth Sciences (IJES)
- Journal of Environmental Sciences (JES)
- Journal of Paleolimnology (JOPL)
- Paleoceanography and Paleoclimatology
- Palaeogeography, Palaeoclimatology, Palaeoecology (PPP)
- Quaternary Geochronology (QG)
- Quaternary International (QI)
- Quaternary Science Reviews (QSR)
- Scientific Drilling (SD)
- Scientific Reports
- Sedimentology
- The Geological Society – Special Publications (GSL)
- The Holocene
- Zeitschrift für Geomorphologie
- Zentralblatt für Geologie und Paläontologie, Teil 1
- Springer book: "The Geography of South Africa: Contemporary Changes and New Directions"

## Conference services

- Convening and Chairing Session: "Limnogeology and Paleolimnology" at AGU Fall Meeting 2024, 9-13 December 2024, Washington, D.C., USA
- Convening and Chairing Session: "Limnogeology and Paleolimnology" at AGU Fall Meeting 2023, 11-15 December 2023, San Francisco, California, USA
- Organising, Convening and Chairing of "International Online Workshop on Lake Sevan", 4-5 December 2021
- Convening and Chairing Session: "Limnogeology and paleolimnology including lagoon systems" at GeoMünster 2019, 22-25 September 2019, Münster, Germany

- Convening and Chairing Session: "Limnogeology and Paleolimnology" at AGU Fall Meeting 2018, 10-14 December 2018, Washington, D.C., USA
- Organizing ICDP workshop on Scientific Drilling of Lake Nam Co (Tibetan Plateau, China), 22-24 May 2018, Beijing, China
- Convening and Chairing Session: "Lacustrine and marine sediments as environmental archives" at GeoBremen 2017, 24-29 September 2017, Bremen, Germany
- Convening and Chairing Session: "Limnogeology and Paleolimnology" at AGU Fall Meeting 2016, 12-16 December 2016, San Francisco, California, USA
- Chairing Session: "The particular importance of geochronological data and methods in (palaeo)geomorphology" at "AK Geomorphologie 2016" conference, 6-7 October 2016, Jena, Germany
- Co-organization of "AK Geomorphologie 2016" conference, 6-7 October 2016, Jena, Germany
- Convening Session: "Geomorphic response to climate variability and change at different timescales and frequencies: insights from surface processes and continental archives" at European Geosciences Union General Assembly 2016, 17-22 April 2016, Vienna, Austria
- Convening and Chairing Session: "Limnogeology and Paleolimnology" at AGU Fall Meeting 2015, 14-18 December 2015, San Francisco, California, USA
- Convening and Chairing Session: "Limnogeology and Paleolimnology" at AGU Fall Meeting 2014, 15-19 December 2014, San Francisco, California, USA
- Convening and Chairing Session: "Marine and lacustrine sediments as environmental archives" at GeoFrankfurt 2014, 21-24 September 2014, Frankfurt, Germany
- Convening and Chairing Session: "Environmental Change in High-Altitude Lakes" at AGU Fall Meeting 2013, 9-13 December 2013, San Francisco, California, USA
- Chairing Session: "Science Program: Drilling into a New Decade" at DOSECC Workshop "US Continental Scientific Drilling: Into a New Decade", 23-24 May 2011, Arlington, Virginia, USA
- Organization of PhD Workshop within the DFG Priority Programme 1372 "Tibetan Plateau: Formation – Climate – Ecosystems" bringing together all groups working on lake sediments on the Tibetan Plateau. 19 November 2011, Jena, Germany
- Participation at Canadian IODP booth at AGU-GAC 2009 Joint Assembly - The Meeting of the Americas. 24-27 May 2009, Toronto, Canada
- Excursion leader at Laguna Potrok Aike during: International Continental Scientific Drilling Program (ICDP) Workshop: PASADO (Potrok Aike Lake Sediment Archive Drilling Project), 16-20 March 2006, Río Gallegos, Argentina

### ***Other science related activities***

- ICDP training workshop on Data and Sample Management (NamCore Project), Potsdam, Germany, 26 February - 1 March 2024
- Virtual DAAD climapAfrica Conference, 29-30 October 2020
- International Continental Scientific Drilling Program (ICDP) Workshop: Paleoclimate, Paleoenvironment, and Paleoecology of Neogene Central America: Bridging Continents and Oceans (NICA-BRIDGE), Montelimar, Nicaragua, 2-5 March 2020
- DFG-Round-table discussion: Establishing a DFG priority program "On the way to the fluvial Anthroposphere" – title translated, Leipzig, Germany, 29 May 2019
- Workshop: A different style of lectures – Interactive teaching with large groups – title translated, Friedrich-Schiller-University Jena, Germany, 2018
- Training: Personnel management and teambuilding in projects – title translated, Friedrich-Schiller-University Jena, Germany, 2013
- GESEP Meeting: Development and acquisition of a multicomponent sediment coring system with great depth range, Potsdam, Germany, 11 July 2012
- DOSECC Annual Meeting 2012, Arlington, Virginia, USA, 21-22 May 2012

- GESEP Workshop: Developing a new sediment drilling device, Braunschweig, Germany, 10 February 2012
- DOSECC Science Planning Committee Workshop: Planning for US Continental Scientific Drilling, Arlington, Virginia, USA, 23-24 January, 2012
- Workshop: US Continental Scientific Drilling: Into a New Decade, Arlington, Virginia, USA, 23-24 May, 2010
- Workshop: Developing the US Initiative in Continental Scientific Drilling, Arlington, Virginia, USA, 2-3 June, 2010
- INRS Intensive Winter Course 2009: Physical Properties of Sediments, Québec, Canada, 2009
- ICDP Training 2007 - Scientific Drilling Training Course, Windischeschenbach, Germany, 2007
- Workshop on marine and continental paleoclimate records from Chile and Argentina, Ghent, Belgium, 2005
- 4th NCCR Climate Summer School – From the Holocene to the Anthropocene: Climate of the last 1000 Years, Grindelwald, Switzerland, 2005
- Didactic basic course: “Who read the text for today?” – Seminar Communication at University - Planning and Arrangement of Lectures – title translated, Bremen, Germany, 2005
- First Postgraduate Field Course on the Geomorphology and Quaternary Geology of Tierra del Fuego, Tierra del Fuego, Argentina, 2003
- Helmert Summer School: Natural climate variability from 10,000 years to present day, Potsdam, Germany, 2002
- European Graduate College in Marine Science (Ecol Mas): Organism based proxies, Bremen, Germany, 2002

## ***Internships***

- Agency for Water Management Bamberg (Germany)
- Agency for Environment-, Fire- and Emergency Services, Environmental Protection Department Bamberg (Germany)
- Researches in “Eckfelder Maar” an Eocene dry maar in the Eifel Volcanic Field (Germany) in cooperation with the “Naturhistorischen Museum” (museum for natural history) Mainz (Germany)
- Archaeological excavations and interpretations of a Bronze Age Tumulus and of parts of the historical section of the city of Bamberg (Germany) in cooperation with the Otto-Friedrich-University Bamberg (Germany)

## ***Licenses***

- International Certificate for Operators of Motorized Pleasure Crafts in Inland Waters
- Driving license

## Field Experience

- 2025
  - o Lake Sevan (Armenia)
    - Piston coring (UWITEC system)
    - Water sampling
  - o Lago Musters and Colhue Huapi (Argentina)
    - Sampling outcrops
    - Push cores
    - Recovery of gravity cores (UWITEC systems)
    - Water sampling
  - o 3 x NamCore opening and sampling party at Science City (China)
    - Core splitting
    - Core preparation
    - Shear strength measurements
    - Core imaging using MSCL
    - Core description
    - Sampling
  - o Lake Geneva & Lac de Bret (Switzerland)
    - Water sampling
  - o Lac Bouget (France)
    - Water sampling
- 2024
  - o Lakes between Washington D.C. and Boston (USA)
    - Water sampling
  - o Lake Sevan (Armenia)
    - Hydroacoustic survey (Innomar)
  - o Lhasa (Tibet)
    - Preparation of ICDP drilling at Lake Nam Co (Tibet)
    - Drilling cancelled due to injury
  - o 2 x Stechlinsee (Brandenburg, Germany)
    - Sediment surface sampling
    - Hydroacoustic survey (Innomar)
- 2023
  - o Lake Mzingazi (South Africa)
    - Bathymetrical survey
    - Water sampling and chemistry
    - Sediment surface sampling
    - Recovery of gravity cores (UWITEC and ETH systems)
  - o Schweriner Innensee (Mecklenburg-Vorpommern, Germany)
    - Hydroacoustic survey (Innomar, Sidescan, Sparker, Multibeam)
- 2022
  - o Aknalich (Armenia)
    - Bathymetrical survey
    - Recovery of gravity cores (UWITEC)
    - Pushcores
  - o Lago Enriquillo (Dominican Republic)
    - Sediment surface sampling
    - Recovery of gravity cores (UWITEC and ETH systems)
    - Water profiling
    - Water sampling
  - o Laguna del Rincon (Dominican Republic)
    - Pushcores

- Water sampling and chemistry
    - Sediment surface sampling
  - Lago en Medio (Dominican Republic)
    - Pushcores
    - Water sampling and chemistry
    - Sediment surface sampling
  - Laguna del Limon (Dominican Republic)
    - Pushcores
  - Stechlinsee (Brandenburg, Germany)
    - Hydroacoustic survey (Innomar)
  - Schweriner Innensee (Mecklenburg-Vorpommern, Germany)
    - Sediment surface sampling
    - Recovery of gravity cores (UWITEC and ETH systems)
- 2021
  - Lake Sevan (Armenia)
    - Recovery of gravity cores (UWITEC)
    - OSL sampling in outcrops
  - Lower Franconia (Bavaria, Germany)
    - Site survey, exploring potential coring sites (lakes, floodplains) for paleoenvironmental reconstructions
  - 7 x Schweriner Außensee (Mecklenburg-Vorpommern, Germany)
    - Sediment surface sampling
    - Shallow water piston coring (Greifswald equipment)
    - Recovery of gravity cores (UWITEC and ETH systems)
    - Piston coring (UWITEC system)
    - Coring with terrestrial coring equipment (Wacker motorhammer)
    - Coring with Russian Peat Corer
    - Coring with Pürckhauer
- 2020
  - Stechlinsee (Brandenburg, Germany)
    - Sediment surface sampling
    - Recovery of gravity cores (UWITEC)
- 2019
  - Hohenrother See (Lower Franconia, Bavaria, Germany)
    - Hydroacoustic survey (Innomar SES)
    - Sediment thickness measurements
  - Windseller See (Lower Franconia, Bavaria, Germany)
    - Site survey
  - Richards Bay Harbour, Mhlatuze River Floodplain and Goedertrouw Dam (South Africa)
    - Coring with terrestrial coring equipment (Cobra motorhammer)
    - Coring with Wink Vibracorer
    - Coring with Russian Peat Corer
    - Coring with Pürckhauer
    - Coring with auger
    - Pushcores
    - Water sampling
  - 5 x Schweriner Außensee (Mecklenburg-Vorpommern, Germany)
    - Recovery of lacustrine sediment cores from beach ridges with terrestrial coring equipment (Wacker motorhammer)
    - Hydroacoustic survey (Innomar SES)

- Recovery of gravity cores (UWITEC and ETH system)
- 4 x Kieshofer Moor (Mecklenburg-Vorpommern, Germany)
  - Coring with Russian Peat Corer
  - Coring with Pürckhauer
- 2018
  - Steinfurth (Mecklenburg-Vorpommern, Germany)
    - Presite survey
    - Terrestrial coring (Wacker motorhammer)
  - 2 x Richards Bay Harbour, Mlalazi and Mdloti rivers and estuaries (South Africa)
    - Hydroacoustic survey
    - Water chemistry
    - Sediment surface sampling
    - Recovery of gravity cores (UWITEC)
- 2017
  - Hohenroth (Lower Franconia, Bavaria, Germany)
    - Recovery of long piston cores (UWITEC)
  - River Roda and tributaries (Thuringia, Germany)
    - Water chemistry
  - Lake Schweriner Innenee (Mecklenburg-Vorpommern, Germany)
    - Hydroacoustic survey
    - Recovery of gravity cores
- 2016
  - Hohenroth (Lower Franconia, Bavaria, Germany)
    - Recovery of lacustrine sediment cores from dry lake with terrestrial coring equipment (Cobra motorhammer)
  - Touw River oxbow lake (Wilderness, South Africa)
    - Recovery of push cores
    - Water chemistry
  - Haussee, Schmaler Luzin, Breiter Luzin (Mecklenburg-Vorpommern, Germany)
    - Grab samples
    - Recovery of gravity cores (UWITEC)
    - Water chemistry
  - Eilandvlei (Wilderness, South Africa)
    - Geoelectric survey
    - Seismic survey (hammer-and-plate refraction survey)
    - Soil sampling
  - 2 x Vankervelsvlei (Wilderness, South Africa)
    - Pre-Site Survey
    - Piston Coring (UWITEC)
    - Water chemistry
  - 2 x Gouritz River (South Africa)
    - Pre-Site Survey
    - Sampling of flood layers in an outcrop
    - Recovery of fluvial and lacustrine sediment cores with terrestrial coring equipment (Wacker motorhammer)
  - Frau-Holle-Teich (Hoher Meißner, Germany)
    - Hydroacoustic survey
    - Recovery of gravity cores (various systems)
    - Water chemistry
  - River Roda and tributaries (Thuringia, Germany)
    - Water chemistry

- 2015
  - o River Roda and tributaries (Thuringia, Germany)
    - Water chemistry
- 2014
  - o Moorteich (Stralsund, Germany)
    - Hydroacoustic survey
    - Recovery of gravity cores (various types)
    - Water chemistry
    - Grab sampling
  - o Knieperteich, Großer Frankenteich, Kleiner Frankenteich (Stralsund, Germany)
    - Water chemistry
  - o Verlorenvlei (South Africa)
    - Recovery of long piston cores (UWITEC)
    - Water chemistry
    - Grab sampling
  - o Kleiner Sumpf (Lichtenau, Germany)
    - Push cores from peat bog
  - o River Roda and tributaries (Thuringia, Germany)
    - Water chemistry
- 2013
  - o Bichlersee (Oberaudorf, Germany)
    - Hydroacoustic survey
    - Water chemistry
    - Recovery of gravity cores (various types)
    - Grab sampling
  - o River Roda and tributaries (Thuringia, Germany)
    - Water chemistry
- 2012
  - o Nam Co (Tibet)
    - Soil and sediment sampling in catchment
    - Plant sampling
  - o Reservoir Noßbach (Thuringia, Germany)
    - Water chemistry
    - Water sampling
    - Grab sampling
  - o Tangra Yumco (Tibet)
    - Recovery of long piston core (UWITEC)
  - o Xuru Co and TT-Lake (Tibet)
    - Bathymetrical mapping
    - Recovery of lacustrine sediments with modified ETH-gravity corer
    - Water sampling
  - o Reservoir Hohenfelden (Thuringia, Germany)
    - Bathymetric mapping
    - Recovery of lacustrine sediments with modified ETH-gravity corer
    - Grab sampling
    - Water profile and sampling
  - o Verlorenvlei (South Africa)
    - Water sampling
    - Sediment sampling in catchment
    - Plant sampling

- 2011
  - o Taro Co, TT-Lake and Tangra Yumco (Tibet)
    - Hydroacoustic survey (Innomar)
    - Recovery of lacustrine sediments with modified ETH-gravity corer
    - Water profile and sampling
    - Sampling of modern plants and inflows
  - o Porstendorfer See (Thuringia, Germany)
    - Teaching limnogeological methods
  - o Reservoir Hohenfelden (Thuringia, Germany)
    - Hydroacoustic survey
    - Recovery of lacustrine sediments with modified ETH-gravity corer
    - Grab sampling
    - Water profile and sampling
- 2010
  - o Tangra Yumco (Tibet)
    - Hydroacoustic survey (Innomar SES)
    - Recovery of lacustrine sediments with modified ETH-gravity corer
    - Water profile and sampling
    - Sampling of modern plants and inflows
  - o Bernshäuser Kutte (Thuringia, Germany)
    - Hydroacoustic survey (Innomar SES)
    - Water profile
    - Recovery of lacustrine sediments with modified ETH-gravity corer
    - Recovery of long lacustrine sequences (Uwitec equipment)
  - o Hainich (Thuringia, Germany)
    - Site survey
    - Loess investigations
  - o Porstendorfer See (Thuringia, Germany)
    - Test of seismic equipment
- 2009
  - o 2x Cruise: RV Coriolis II: St. Lawrence Estuary (Canada)
    - Gravity / Box core, grab sampling
    - Seismic, echosounding and multi beam measurements
    - CTD measurements, water sampling
    - Test of Sparker Seismic System
  - o Lac Jacques-Cartier (Canada)
    - Recovery of lacustrine sediments with various types of corers
    - Echosounding measurements
- 2008
  - o Laguna Potrok Aike (Argentina)
    - ICDP (International Continental Scientific Drilling Program) deep drilling PASADO (Potrok Aike Maar Lake Sediment Archive Drilling Project)
    - Recovery of several >100 m sediment sequences with GLAD 800
  - o Laguna Chaltel / Laguna Azul (Argentina)
    - Recovery of sediment traps and thermistors
  - o Lutteranger (Lower Saxony, Germany)
    - Recovery of Holocene sediments with Russian Corer
  - o Seeburger See (Lower Saxony, Germany)
    - Bathymetrical mapping
    - Recovery of lacustrine sediments with various types of corers
  - o Water sampling

- 2007
  - o Dillsgraben (Lower Saxony, Germany)
    - Test of coring equipment (modified Kajak corer / Meischner-Rumohr Lot / Uwitec short core equipment)
    - Water profile
    - Water sampling
- 2006
  - o Dillsgraben (Lower Saxony, Germany)
    - Test of coring equipment (Kajak corer / Meischner-Rumohr Lot)
  - o Sacrower See (Brandenburg, Germany)
    - Change of sediment traps and thermistors
    - Water profile
  - o Lake Holzmaar, Meerfelder Maar, Weinfelder Maar (Eifel, Germany)
    - Recovery of lacustrine sediments with modified ETH-gravity corer
  - o Laguna Potrok Aike (Argentina)
    - Sampling of nitrogen fixing algae
    - Water sampling
  - o Lago Roca (Santa Cruz - Argentina)
    - Recovery of short cores with Kajak corer
    - Water profile
    - Echo-sounding and visibility measurements
    - Recovery of peat core
    - Water sampling
  - o Lago Argentino (Argentina)
    - Recovery of short cores with Kajak corer from Brazo Sur
  - o Pre-excursion for laboratory course Bremen and vicinity (Germany)
    - Identification of mire, marsh and geest locations
    - Identification of Elster and Saale moraines as well as Lauenburg Clays in sand pit Freißenbüttel
- 2005
  - o 2 x Sacrower See (Brandenburg, Germany):
    - Change of sediment traps and thermistors
    - Water profiles
    - Recovery of lacustrine sediments with modified ETH-gravity corer
- 2004
  - o Feldungel See (Lower Saxony, Germany)
    - Recovery of Holocene Sediments (Livingston corer)
  - o Chubut and Santa Cruz Province (Argentina):
    - Collection of water samples for isotopic analyses
  - o Sacrower See (Brandenburg, Germany):
    - Change of sediment traps and thermistors
    - Water profiles
  - o Laguna Potrok Aike (Argentina):
    - Seismic survey with Sparker System
    - Change of sediment traps and thermistors
    - Magnetometer measurements
  - o Lago del Desierto (Argentina):
    - Bathymetric mapping
- 2003
  - o Laguna Azul & Laguna Potrok Aike (Argentina):
    - Seismic surveys with 3.5 kHz equipment
    - Recovery of long lacustrine sequences (Uwitec equipment)

- Water sampling
- 2002
  - Mondsee (Austria)
    - Test of new coring equipment (Uwitec)
  - Frickenhausen (Germany):
    - Recovery of long lacustrine sequence with Uwitec equipment
- 2001
  - Hohenroth (Lower Franconia, Bavaria, Germany)
    - Recovery of Holocene peat cores
  - Frickenhausen (Lower Franconia, Bavaria, Germany)
    - Recovery of long lacustrine sequence with Usinger equipment
- 2000
  - Wetzhausen (Lower Franconia, Bavaria, Germany)
    - Holocene colluvium examinations
  - Frickenhausen (Lower Franconia, Bavaria, Germany)
    - Recovery of lacustrine sediments with modified ETH-gravity corer
  - Wettringen (Lower Franconia, Bavaria, Germany)
    - Soil examinations
- 1999
  - Wetzhausen (Lower Franconia, Bavaria, Germany)
    - Holocene colluvium and peat bog examinations