

Dr. Thomas A. Ronge

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Address: 1000 Discovery Drive, 77845, College Station, United States (Work)

● WORK EXPERIENCE

2022 – CURRENT College Station, United States

EXPEDITION PROJECT MANAGER/STAFF SCIENTIST INTERNATIONAL OCEAN DISCOVERY PROGRAM AT TEXAS A&M

Managing IODP Expeditions and facilitating the research of all expedition members.

2019 – 2021 Bremerhaven, Germany

MARINE GEOLOGIST ALFRED-WEGENER-INSTITUTE HELMHOLTZ CENTER FOR POLAR AND MARINE RESEARCH

Postdoctoral scientist in the department of Marine Geology.

Research Scientist focused on the stability of Antarctic ice sheets and oceanic CO₂ sequestration.

2019 – 2019 Hannover, Germany

MARINE GEOLOGIST BUNDESANSTALT FÜR GEOWISSENSCHAFTEN UND ROHSTOFFE

Postdoctoral scientist in the department of Marine Geology.

Participation in IODP Expedition 382. Head of the sedimentology working group.

2015 – 2019 Bremerhaven, Germany

MARINE GEOLOGIST ALFRED-WEGENER-INSTITUTE HELMHOLTZ CENTER FOR POLAR AND MARINE RESEARCH

Postdoctoral scientist in the department of Marine Geology.

Research Scientist focused on Southern Ocean circulation and past CO₂ sequestration.

● EDUCATION AND TRAINING

2010 – 2014 Germany

PH. D. / DR. RER. NAT. University of Bremen (German University of Excellence)

Address Germany

2005 – 2010 Germany

DIPLOMA (MSC EQUIVALENT) IN GEOLOGY Steinmann Institute for Geology, Mineralogy and Paleontology, University of Bonn

Address Germany

● ADDITIONAL INFORMATION

SEAGOING EXPEDITIONS

R/V JOIDES Resolution Expedition 398 – Hellenic Arc Volcanic Field

2022 - 2023

Expedition Project Manager

2019

R/V JOIDES Resolution Expedition 382 – South Atlantic / Iceberg Alley

Leader of the sedimentology night shift.

2018

R/V Sonne SO264 – Subarctic Northwest Pacific

Leader of the geology-sedimentology group and coring operations.

2017

R/V Polarstern PS104 – West Antarctic / Amundsen Sea

Shipboard sampling and helicopter-based surveying as well as sampling on the ice shelf and icebergs.

2016

R/V Polarstern PS97 – Antarctic Peninsula & Drake Passage

Leader of physical-properties group. Shipboard sampling. Aiding deployment of land/ice-based GNSS antennas.

2014

R/V Polarstern ANT-XXX/1 – English Channel & North Atlantic

2013

R/V Polarstern ANT-XXIX/4 – Scotia Sea / South Georgia

Leader of physical-properties group.

2012

R/V Heincke HE-376/2 – North Sea

2011

R/V Sonne SO213/2 – South Pacific: Chile – New Zealand

Leader of physical-properties group.

2010 – 2011

R/V Sonne SO213/1 – Southeast Pacific: Valparaíso, Chile – Valparaíso, Chile

2010

R/V Uthörn – German Bight

Geological/Biological underwater fieldwork (scuba) off Elba, Italy

2008 and 2009

LAND EXPEDITIONS

2009

Geological mapping in the Karoo Desert, South Africa

Project management, fieldwork, interaction with UraMin-Areva reps, writing of final report.

2008

Geological mapping in the Eastern Rhodopes, Bulgaria

2007

Paleontological excavation in Winterswijk, Netherlands

2007

Geological mapping in the Lodève-Basin, France

INTERNATIONAL RESEARCH STAYS

2014

ETH Zürich

Laboratory of Ion Beam Physics

2009

Statoil ASA, Stavanger, Norway

Department of Geology

Centre of Excellence in Palaeosciences; Sedimentology and Biostratigraphy

MANAGEMENT AND LEADERSHIP SKILLS

Group leader and project manager I have been in charge of the international geology group, coring, and laboratories during Expedition SO264, as well as the sedimentology night shift during IODP Expedition 382. On all expeditions (except for SO264 and Exp382), I have been in charge of the onboard logging activities and lab.

Principal Investigator DFG SPP1158 project RO5057/1-1

DFG SPP1158 project RO5057/1-2

Responsible for acquisition of funding, planning and execution of lab work, writing of publications and reports.

Supervision of interns, bachelor's, master's, and PhD students At the Alfred-Wegener-Institute, I have and still do supervise student interns, bachelor's and master's students, as well as PhD students.

Currently: Master's Student *Sharon Dbritto* (India)

PhD student *Kevin Küssner* (Germany)

Speaker of the AWI Postdoc Council At the Alfred-Wegener-Institute, I have been the representative of the geoscience department in the AWI Postdoc Council and have been the speaker of the council itself. In this position, I represented the postdocs at AWI and discussed and negotiated postdoc topics with the AWI directorate.

COMMUNICATION AND INTERPERSONAL SKILLS

Science Communicator German and English science talks for the general public, school classes, and other events.

Science Ambassador Participating in official outreach events of the Alfred-Wegener-Institute. E.g., Open Ship, climate workshops, panels.

Science Educator Multiple talks and presentations for school classes in person, or world-wide via Skype-a-Scientist.

Media Multiple interviews and appearances for different media outlets (print, online, radio, podcast, TV).

Social Media Active communicator on Twitter: @RemoteLongitude

GRANTS AND FUNDING

2019 – CURRENT

NSF-China project 91958106 (co-proponent with Dr. X. Zhen)

2018 – 2020

Helmholtz Society project POSY (co-proponent)

2018

DFG SPP527 (PI)

2016 – 2018

DFG SPP1158 project RO5057/1-2 (PI)

2014 – 2017

DFG SPP1158 project RO5057/1-1 (PI)

2016

NVP grant, to attend a workshop in Longyearbyen, Norway

2008

Statoil ASA travel grant, to conduct lab work at Statoil's repository

2008

UraMin-Areva travel grant, to conduct field work in the Karoo Desert and a research stay at the University of the Witwatersrand

TEACHING

2018 – 2021

Lecture: Grundzüge der Paläozeanographie und Paläoklimatologie (Introduction to Paleoceanography and Paleoclimatology), Bremen University

Since 2020 online

2010 – CURRENT

Supervision of interns, bachelor's, master's, and PhD students

2008 – 2010

Micropaleontology lectures at University of Bonn

VOLUNTEERING

2020 – CURRENT

IODP Geophysics LWG Member of the IODP geophysics lab working group.

2018 – 2021 Alfred-Wegener-Institute Bremerhaven

Emergency Evacuation Assistant

2017 – 2022

APECS Germany board member Board member of the German branch of APECS (Association of Polar Early Career Scientists).

2017 – CURRENT

German Society for Polar Research social media

2017 – 2021 Alfred-Wegener-Institute Bremerhaven

Organizer of AWI Geoseminar Inviting local and external researchers to the research seminar of the AWI marine geology department.

2017 – 2019

PAGES ECN regional representative Regional representative for Germany of the Past Global Changes early career network (PAGES ECN).

2016 – 2018 Alfred-Wegener-Institute Bremerhaven

AWI Postdoc Council Speaker

Representative of AWI Geosciences

2016 – 2017 Alfred-Wegener-Institute Bremerhaven

Chair of AWI Colloquium Invitation of internationally renowned scientists to speak at the AWI.

Organization of the events.

2016 – CURRENT

Skype a Scientist Talks via online tools (skype, zoom, etc.) to school classes and other groups around the world.

NETWORKS AND MEMBERSHIPS

European Geoscience Union - EGU

Deutsche Gesellschaft für Polarforschung (German Society for Polar Research)

American Geophysical Union - AGU

Association of Polar Early Career Scientists - APECS

REVIEWER ACTIVITY

Reviewer for

Intergovernmental Panel on Climate Change (IPCC) *Special Report on the Ocean and Cryosphere in a Changing Climate (SROCC)*

IPCC 6th Assessment Report

Earth and Planetary Science Letters

Geochemistry, Geophysics, Geosystems (G-Cubed)

Journal of Climate

