

Dr. Maren Brehme
CURRICULUM VITAE

PERSONAL INFORMATION

Date of birth: 14.10.1983
Nationality: German
Languages: German (*native*), English (*fluent*), Turkish (*fluent*), Dutch (*elementary*)
OrCID: 0000-0003-1862-2767, Google Scholar: [LINK](#) (h-index: 7, citations: 168, as off May 4th 2021)

EDUCATION

2011-2015: University of Göttingen, Göttingen, Germany; Dr. rer. nat. Geosciences, Prof. Martin Sauter, 'The role of fault zones on structure, operation and prospects of geothermal reservoirs - A case study in Lahendong, Indonesia'
2003-2008: Technical University of Berlin, Berlin, Germany; Dipl.-Ing. Hydrogeology, Prof. Traugott Scheytt, 'Groundwater composition and groundwater flow in the area of Dörtüol/Hatay/Turkey'

EMPLOYMENT HISTORY

Off 08/2021: Senior Researcher/Oberassistent, **Geothermal Energy and Geofluids**, ETH Zürich
2019-2021: Assistant Professor, **Geofluids Applications and Geothermal Engineering**; Delft University of Technology
2016-2019: Postdoc Researcher, **Geothermal Stimulation**; German Research Center for Geosciences, Potsdam, Germany
2010-2015: Research Scientist, **Geothermal Exploration and Operation**; German Research Center for Geosciences, Potsdam, Germany
2009-2010: Research Scientist, **Groundwater Flow**; German Research Center for Geosciences, Potsdam, Germany
2009: Project Engineer, **Groundwater Remediation**; KWS Geotechnik, Berlin, Germany

INSTITUTIONAL RESPONSIBILITIES

Senior Researcher and Lecturer on the topics of geofluids (geothermal, CO₂, H₂, heat, drinking water) using hydro-geochemistry and hydro-tectonics with the aim to understand sub-surface fluid flow using multidisciplinary approaches for sustainable underground exploration and utilization strategies.

APPROVED RESEARCH PROJECTS

PI:

2020-2024: **EASYGO**, ITN, Geothermal Operation, EU Marie Skłodowska-Curie Action **3.5M€, 14 partners, 13 PhDs at 4 Universities**
2020-2021: **MiMo**, Dutch-Indonesian Collaboration, KNAW call, **45k€, 4 partners, 2 PhDs**
2019: **ACIL**, Expedition Fund, Geothermal Exploration in Turkey, GFZ Potsdam, **40k€, 3 partners, 1 MSc**
2018: **LoLa**, Expedition Fund, Geothermal Fieldwork in Indonesia, GFZ Potsdam, **20k€, 3 partners, 1 MSc**

Co-PI:

2020-2023: **CIRCEXTIN**, Erasmus+, Strategic Partnership on Higher Education, Fostering Circular Economy, EU, **240k€, 6 Universities**
2017-2020: **MECSEKÉRC**, Geothermal Stimulation, Environmental Protection Public Limited Company-Hungary, **110k€, 1 PhD, 1 PostDoc**
2016-2020: **DESTRESS**, EU Horizon2020, Geothermal Stimulation, **25M€, 17 partners**
2017: Advisory Report, Geothermal Potential, BLS Energieplan GmbH Berlin-Germany, **7k€, 1 PostDoc**
2016: Advisory Report, Geothermal Potential, ESWE Versorgungs AG Wiesbaden-Hesse-Germany, **41k€, 1 PostDoc**

PROFESSIONAL SOCIETIES

European Geosciences Union (EGU)
German Association for Hydrogeology (FHDGG)

Women in Geothermal (WING)
Deutscher Hochschulverband (DHV)

ACADEMIC COMMITMENTS

Teaching

Since 2020 Geothermal Energy and Applications (1st year MSc, TU Delft, co-taught)
Since 2020 Geothermal Energy (1st year MSc, TU Delft, responsible instructor)
Since 2019 Reservoir Fluids (1st year MSc, TU Delft, co-taught)
2017 Aquifer Thermal Energy Storage (2nd year MSc, TU Berlin, co-taught)
2016 Geothermal Field Characterization (2nd year MSc, GFZ Potsdam, responsible instructor)
2012 Geothermal Reservoir Engineering (1st year MSc, Institute Technologi Bandung, co-taught)

Supervision of Ph.D. students

Since 2020 - main supervision L. Suherlina *Thermal-hydraulic-chemical Evolution of a High Enthalpy Geothermal Field, TU Delft*
Since 2019 - co-supervision M. Nnko *Geothermal potential of the Songwe basin, Tanzania, TU Delft*
Since 2018 - co-supervision F. Schäfer *Continuous high-resolution gravity measurements at a geothermal field in Northern Iceland, University of Potsdam*

Supervision of M.Sc. students

J. Steijn, P.Pinkowski, L.Suherlina, C.Parra, S.Asnin, A.Marko, Co-supervision: W.Rochi, J.Ros
In the fields of high-enthalpy geothermal fields, geochemical properties of geothermal fields, high temperature aquifer thermal energy storage, injection related problems

Supervision of B.Sc. students

H.Haverlag, I.Pavlovic, V.Peet, F.Smit, A.Zafiroopoulos, Co-supervision: P.Helbig, L.Mira, M.Brenninkmeijer
In the fields of energy provision by geothermal, gravity measurements in geothermal fields, clogging and corrosion processes in wells

SERVICE TO THE ACADEMIC COMMUNITY

Organization of workshops and seminars

Member of Scientific Advisory Committee for European Geothermal Congress 2022
Session Convener 'Exploration, utilization and monitoring of conventional and unconventional geothermal resources', EGU, Vienna, Austria, 2020 & 2021
TU Delft Geothermal Theme Seminar Organizer, 'Group work and team spirit', September 2019

Committees

Board of Studies Applied Earth Sciences, TU Delft, since 2020
Voorlichtingscommissie, Outreach, TU Delft, since 2019
Equal Opportunity Commissioner, GFZ Potsdam, 2016-2019
PhD Representative, GFZ Potsdam, 2010-2012

Reviewer for

Geothermics, Geosciences, Geothermal Energy, Grundwasser, Applied Geochemistry, Geophysical Journal International, Environmental Earth Sciences, International Journal of Energy and Smart Grid

Topical Editor in "Advances in Geosciences"

Proposal-Reviewer (fault-controlled permeability in geothermal fields)

National Commission for Scientific and Technological Research-Chile

AWARDS, FELLOWSHIPS

2016-2017 Mentoring Programme in the Helmholtz-Association „In Führung gehen“