

Dr. rer. nat. Ahmed Hadidi



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📅 Date of birth 30/12/1981 | 🇬🇧🇸🇾 Nationality British/Syrian

Assistant Professor

Department of Applied Geosciences,
German University of Technology in Oman

Educational Background

Doctoral degree Dr. rer. nat. in Geology (2016)
Berlin Institute of Technology, Germany

Master in Applied Geology (2010)

Postgraduate Diploma in Applied Geology (2005)

Bachelor of Science in Geology (2004)

University of Aleppo, Syria

Employment History

2021 – current	Assistant Professor German University of Technology in Oman
2018 – 2021	Senior Lecturer German University of Technology in Oman
2017 – 2018	Research Associate German University of Technology in Oman
2013 – 2016	Part time lecturer/PhD student Technische Universität Berlin
2010 – 2011	Lecturer University of Aleppo, Syria
2008 – 2009	Geologist Consultant for BGR project in Aleppo basin
2004 – 2010	Teaching Assistant University of Aleppo, Syria

Research Areas

Flash floods in wadi systems, rainfall estimation in the arid areas, Managed Aquifer Recharge and Hydrological/Hydrogeological modeling in wadi systems.

Further Activities

- Chair of Industry and Community Engagement Committee at GUTech since 2020.
- Member of Advisory Board of Military Technological Collage, Faculty of Engineering, since 2022.
- Member of scientific committee of Oman Water Society, since 2020.
- Member of the organizing committee of Regional Symposium of Geospatial Information Exchange and Research, 2023, Muscat, Oman.
- Project manager of Shell Nawafidh programme since 2020.

Selected Publications

Holzbecher, Ekkehard; **Hadidi, Ahmed**; Volp, Nicolette; Koning, Jeroen de; Badi, Humaid Al; Khatri, Ayisha Al; Barwani, Ahmed Al; (2022) Advanced Tools for Flood Management: An Early Warning System for Arid and Semiarid Regions Wadi Flash Floods. 209-223, Springer, Singapore

Tügel, Franziska; **Hadidi, Ahmed**; Özgen-Xian, Ilhan; Hou, Jingming; Hinkelmann, Reinhard; (2022) Validation of Flash Flood Simulations Using Satellite Images and Community-Based Observations—Impact of Infiltration and Small-Scale Topographical Features, Wadi Flash Floods, 183, Springer, Singapore

Hadidi, Ahmed; Holzbecher, Ekkehard; Molenaar, Roy Enrico; (2020) Flood mapping in face of rapid urbanization: A case study of Wadi Majraf-Manumah, Muscat, Sultanate of Oman. Urban Water Journal, 17, 5, 407-415. Taylor & Francis

Tügel, Franziska; Abdelrahman, Abdelrahman Ali Ahmed; Özgen-Xian, Ilhan; **Hadidi, Ahmed**; Hinkelmann, Reinhard; (2020) Rainfall-runoff modeling to investigate flash floods and mitigation measures in the Wadi Bili catchment, Egypt. Advances in Hydroinformatics. 559-573. Springer, Singapore

Bauer, Florian; **Hadidi, Ahmed**; Tügel, Franziska; Hinkelmann, Reinhard; (2020) Flash flood investigations in El Gouna, Northern Red Sea Governorate. "Flash Floods in Egypt" Negm, Abdelazim (Ed.) ISBN 978-3-030-29634-6, 340, 2020. Springer International Publishing

Hadidi, Ahmed; Holzbecher, Ekkehard; Zirulia, Andrea; (2019) Trends in groundwater observation data and implications. 13th Gulf Water Conference—Water in the GCC: Challenges and Innovative Solutions, 14-Dec 2019

Tügel Franziska, Abdelrahman Ahmed, Özgen İlhan, **Hadidi Ahmed**, Hinkelmann Reinhard (2019)
Rainfall-Runoff Modelling to Investigate Flash Floods and Mitigation Measures in the Wadi Bili
Catchment, Egypt. SimHydro, Nice, France

Tügel Franziska, Özgen İlhan, Hinkelmann Reinhard, **Hadidi Ahmed**, Troeger Uwe; (2018)
Modeling of flash floods in wadi systems using a robust shallow water model - case study El
Gouna, Egypt Advances in Hydroinformatics | Gourbesville P., Cunge J., Caignaert G. (eds)
Springer-verlag, Singapore

Hadidi, Ahmed; Holzbecher, Ekkehard; (2018) DELINEATION OF CATCHMENT BOUNDARY IN
WADIS' DOWNSTREAM IN SOUTH BATINA, OMAN 4th International Symposium on Flash
Floods in Wadi. Casablanca, Morocco

Hadidi, Ahmed; Holzbecher, Ekkehard; (2017) Utilizing space-borne precipitation radar data for
flash flood studies in wadi systems. 3rd International Symposium on Flash Floods in Wadi
Systems. Muscat, Oman

Hadidi, Ahmed; (2016) Wadi Bili catchment in the Eastern Desert: Flash floods, geological model
and hydrogeology, Technische Universitaet Berlin (Germany)

Tügel, Franziska; Özgen, Özgen; **Hadidi, Ahmed**; Tröger, Uwe; Hinkelmann, Reinhard; (2016)
Shallow Water Flow Based Simulation of Flash Floods in Small Catchments International
Symposium on Flash Floods in Wadi Systems El Gouna, Egypt