

Dini Adyasari
Assistant Professor | Department of Marine and Coastal Environmental Science
Building 3029 (OCSB) Room 343
dini.adyasari@tamug.edu | (409) 741 7115
ORCID: 0000-0002-3114-4053, [Google Scholar](#), [ResearchGate](#)

EDUCATION

Dr. rer. nat in Geosciences, University of Bremen (Germany), 2019

Master of Science in Environmental Technology, University of Stavanger (Norway), 2014

Bachelor of Science in Environmental Engineering, Bandung Institute of Technology (Indonesia), 2010

RESEARCH AND PROFESSIONAL EXPERIENCE

Assistant professor Galveston, USA
Department of Marine and Coastal Environmental Science, Texas
A&M University at Galveston 06/2023-present

Postdoctoral researcher Tuscaloosa, USA
Department of Geological Sciences, University of Alabama
10/2020 – 12/2022
Project: *Nitrogen and carbon biogeochemistry of coastal groundwater in the northern Gulf of Mexico*, funded by German Research Foundation (DFG) through Walter Benjamin Postdoctoral Fellowship

Postdoctoral researcher Bremen, Germany
Leibniz Centre for Tropical Marine Research
07/2019 – 09/2020
Project: *Submarine groundwater discharge (SGD) from tropical islands as nutrient supply for marine ecosystems*

Doctoral researcher Bremen, Germany
University of Bremen
05/2015 – 06/2019
Dissertation: *Pollution of urban submarine groundwater discharge from Jepara coastal region and its implications for local water management*, funded by German Academic Exchange Service (DAAD) through Sustainable Water Management (NAWAM) Scholarship

Research intern Berlin, Germany
German Federal Institute of Geosciences and Natural Resources
06-08/2018
(BGR)
Project: *Submarine groundwater discharge study at the sub-Saharan Africa and Small Islands Developing States (SIDS) region: environmental and socioeconomic impacts for coastal communities*

Visiting scientist
Interuniversity Institutes for Marine Sciences
Project: *Carbon cycle at the tropical coral reef in Gulf of Aqaba affected by the submarine groundwater discharge*

Eilat, Israel
03/2018

Visiting scientist
Department of Geological Sciences, University of Alabama
Project: *The importance of submarine groundwater discharge-born nitrogen fluxes in a river dominated estuary: example of Mobile Bay, Alabama*

Tuscaloosa, USA
07/2017

Research intern
Intergovernmental Oceanographic Commission (IOC) at UNESCO
Office Jakarta

Jakarta, Indonesia
11/2014 – 04/2015

GRANTS AND AWARDS

Walter Benjamin Postdoctoral Fellowship from the German Research Foundation (DFG); 98,500€	2020-2022
Bernd Rendel Prize from the German Research Foundation (DFG); 2,000€	2019
Sustainable Water Management Scholarship Grant from the German Academic Exchange Service (DAAD); 60,900€	2015-2019

PUBLICATIONS

Peer-reviewed journals

D. Adyasari, N. Dimova, H. Dulai, B. S. Gilfedder, I. Cartwright, T. McKenzie, P. Fuleky. 2023. *Radon-222 as a groundwater discharge tracer to surface waters*. Earth-Science Reviews. <https://doi.org/10.1016/j.earscirev.2023.104321>

D. Adyasari, D. Montiel, B. Mortazavi, N. Dimova. 2021. *Storm-driven fresh submarine groundwater discharge and nutrient fluxes from a barrier island*. Frontiers in Marine Science, 8, 857. DOI: <https://doi.org/10.3389/fmars.2021.679010>.

D. Adyasari, M.A. Pratama, N.A. Teguh, A. Sabdaningsih, M.A. Kusumaningtyas, N. Dimova. 2021. *Anthropogenic impact on Indonesian coastal water and ecosystems: Current status and future opportunities*. Marine Pollution Bulletin (171), DOI: <https://doi.org/10.1016/j.marpolbul.2021.112689>.

D. Adyasari, et al. 2021. *Terrestrial nutrient and dissolved organic matter input into a coral reef ecosystem via submarine springs*. ACS ES&T Water, 1(8): 1887–1900. DOI: <https://doi.org/10.1021/acsestwater.1c00134>.

N. Moosdorf, M. Böttcher, **D. Adyasari**, et al. 2021. *A state-of-the-art perspective on the characterization of subterranean estuaries at the regional scale*. Frontiers in Earth Science, 9(95). DOI: <https://doi.org/10.3389/feart.2021.601293>.

D. Adyasari, C. Hassenrück, D. Montiel, N. Dimova. 2020. *Microbial community composition across a coastal hydrological system affected by submarine groundwater discharge (SGD)*. Plos One 15(6): e0235235. DOI: <https://doi.org/10.1371/journal.pone.0235235>.

D. Montiel, A. Lamore, J. Stewart, J. Lambert, J. Honeck, Y. Lu, O. Warren, **D. Adyasari**, et al. 2019. *Natural groundwater nutrient fluxes exceed anthropogenic inputs in an ecologically impacted estuary: Lesson learned from Mobile Bay, Alabama*. Biogeochemistry, 145(1-2):1-33. DOI: <https://doi.org/10.1007/s10533-019-00587-0>.

D. Adyasari, C. Hassenrück, T. Oehler, A. Sabdaningsih, N. Moosdorf. 2019. *Microbial community composition associated with submarine groundwater discharge site in northern Java (Indonesia)*. Science of the Total Environment, 689:590-601. DOI: <https://doi.org/10.1016/j.scitotenv.2019.06.193>.

D. Adyasari, T. Oehler, N. Afiati, N. Moosdorf. 2019. *Environmental impact of nutrient fluxes associated with submarine groundwater discharge at an urbanized tropical coast*. Estuarine, Coastal and Shelf Science, 221: 30-38. DOI: <https://doi.org/10.1016/j.ecss.2019.03.009>.

V. A. Razafimanantsoa, **D. Adyasari**, A. K. Sahu, B. Rusten, T. Bilstad, L. Ydstebø. 2019. *Pilot-scale study to investigate the impact of rotating belt filter upstream of a MBR for nitrogen removal*. Water Science and Technology, 79(3): 458-465. DOI: <https://doi.org/10.2166/wst.2019.069>.

T. Oehler, E. Eiche, D. Putra, **D. Adyasari**, U. Mallast, N. Moosdorf. 2018. *Seasonal variability of land-ocean groundwater nutrient fluxes from a tropical karstic region (southern Java, Indonesia)*. Journal of Hydrology, 565: 662-671. DOI: [10.1016/j.jhydrol.2018.08.077](https://doi.org/10.1016/j.jhydrol.2018.08.077).

D. Adyasari, T. Oehler, N. Afiati, N. Moosdorf. 2018. *Groundwater nutrient inputs into an urbanized tropical estuary system in Indonesia*. Science of the Total Environment, 627: 1066-1079. DOI: [10.1016/j.scitotenv.2018.01.281](https://doi.org/10.1016/j.scitotenv.2018.01.281).

Other publications

D. Adyasari. 2019. *Pengelolaan kualitas sumber daya air pesisir berkaitan dengan keluaran air tanah lepas pantai (KALP): studi kasus di Indonesia*. ZMT Policy Brief Series (in Indonesian), DOI: [10.21244/zmt.2019.005](https://doi.org/10.21244/zmt.2019.005).

D. Adyasari and N. Moosdorf. 2019. *Coastal water management related to submarine groundwater discharge: a study case in Indonesia*. ZMT Policy Briefs series. DOI: [10.21244/zmt.2019.003](https://doi.org/10.21244/zmt.2019.003).

Latief, H., A.M. Kodijat, D.A. Ismoyo, B. Koetapangwa, **D. Adyasari**, N. Nurbandika, & H.P. Rahayu. 2016. *Tsunami in Three Villages 1950*. The Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO), Jakarta. <http://iopic.ioc-unesco.org/resources/publications-and-reports/69/publication>.

PRESENTATIONS AND LECTURES

Climate change variables affected DOM composition and microbial assemblages in organic-rich subterranean estuaries. Invited talk. Virtual SGD Seminar, 2023.

Microbial community composition in subterranean estuary and their impacts to coastal water quality: study case in Mobile Bay, AL. Invited talk, Southeast Branch American Society for Microbiology (SEB-ASM) Fall Meeting, USA, 2021.

Microbial community composition associated with submarine groundwater discharge. Guest lecture, course Marine Microbiology, Carl von Ossietzky University of Oldenburg, Germany, 2020.

Introduction to Next Generation Sequencing (NGS) and Data Analysis. Guest lecture, course Aquatic Microbiology, Diponegoro University, Indonesia, 2020.

Microbial communities in subterranean estuary and their impacts to coastal ecology. Public lecture, Diponegoro University, Indonesia, 2020.

Biogeochemistry of submarine groundwater discharge in Lombok, Indonesia. Public lecture, KiSNet - Königshafen Submarine Groundwater Discharge Network Seminar, Germany, 2020.

Oral and poster presentations in conference: Estuarine and Coastal Sciences Association Conference 2016, Goldschmidt 2017, International Ra-Rn Workshop 2018, European Geosciences Union (EGU) General Assembly 2018 and 2019, International Association of Hydrogeologists (IAH) Congress 2019, and Ocean Sciences Meeting 2022.

PROFESSIONAL AFFILIATION

American Geophysical Union (AGU), Association for the Sciences of Limnology and Oceanography (ASLO)

STUDENT SUPERVISION

Stanislaw Kurowski (PhD Geological Sciences, University of Alabama). Dissertation committee members.

Jarrid Tschaikowski (M.Sc Geoscience, University of Bremen). Master thesis titled "Tourism and groundwater in Gili Air", 2019. Field supervisor.

Rahman Putra, exchange student from Institute of International Culture Affairs. Project titled "Sustainable groundwater management in Indonesia", 2018. Co-supervised with Prof. Dr. Nils Moosdorf.

Florian Senger (M.Sc Marine Geoscience, University of Bremen). Geoscientific project titled "Anthropogenic input through submarine groundwater discharge in Central Java", 2017. Co-supervised with Prof. Dr. Nils Moosdorf.

SERVICE

- Journal reviewer for FEMS Microbiology Review, Environmental Microbiology, Molecular Ecology, Journal of Geophysical Research – Oceans, Chemical Geology, Science of the Total Environment, Journal of Environmental Management, PLOS ONE, Regional Studies in Marine Science, and Estuaries and Coasts.
- Proposal reviewer for Agence Nationale de la Recherche.
- Session convener in American Geophysical Union (AGU) 2023 – H010. Advancement in coastal hydrogeology and implications for water quality and ecosystems.