

CURRICULUM VITAE

AKBAR REZA

Laboratory of Ecology and Conservation

Faculty of Biology – Universitas Gadjah Mada (UGM) INDONESIA

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EDUCATION

Feb 2016 – Dec 2017 **James Cook University, AUS**
M.Sc Marine Biology and Ecology

Sept 2009 – May 2014 **Universitas Gadjah Mada, IDN**
B.Sc Biology-Environmental Biology

RESEARCH EXPERIENCE

Present • *Does less than 25% coral cover always mean unhealthy? - A review and critique of arbitrary indicators of coral reef health in Indonesia*
• *Niche differentiation of intertidal seagrass and macroalgae in high-wave regimes environment*
• *A systematic review of global trends in coral reef-microplastic research*

2019-2021 • *A baseline work toward the rehabilitation of a Jellyfish Lake*
• *Coral reef community health status as a baseline in sustainable reef-based tourism management in Sadranan beach, Indonesia*

2018 *Measurement of microplastic density in the Karimunjawa National Park, Indonesia*

2017 **James Cook University-AUS, M.Sc Research**
Plastic pollution on the coral reef ecosystem in Kepulauan Seribu National Park Indonesia (Supervisor: Assoc. Prof. Mia Hoogenboom)

2016 *Life history strategy of shallow and deep massive Porites coral*
Effect of habitat complexity on distribution and abundance of epifauna invertebrates in Pioneer Bay, Orpheus Island

2015 *Mangrove Restoration Program in Bogowonto Lagoon, Yogyakarta-Indonesia*

2013 *Diversity, distribution, and abundance of scleractinian coral in District-based Marine Protected Area Olele Gorontalo Indonesia*
(Supervisor: Assoc. Prof. Dr. Retno Peni Sancayaningsih)
Celebes Expedition 2013, Undergraduate Flora Fauna Student Researcher

RESEARCH FUNDING

2019-2022 Faculty of Biology UGM Research Grant – *Intertidal benthic ecology and marine lakes rehabilitation (~USD 2304)*

2021 Young Lecturer Research Grant UGM – *Intertidal benthic ecology and conservation (~USD 1298)*

2019 National Geographic Society, PADI Foundation, Rufford Foundation – *A baseline work towards the rehabilitation of a Jellyfish Lake*

(~USD 20000)
2017 James Cook University Research Travel Awards (~USD 324)

SCHOLARSHIPS

2022 Indonesian Endowment Fund for Education (LPDP) awardee – Doctoral Program
2015 Indonesian Endowment Fund for Education (LPDP) awardee – Master Program

AWARDS/HONORS

2022 Selected Lecturer to participate at OCELOTS Spring 2023 Faculty Mentoring Network (FMN) funded by National Science Foundation - Iowa State University
2019 Third-best poster presentation at the Faculty of Biology UGM Research Expo
2016 Best poster on "20 Critical knowledge gaps on coral reef ecology research" – Coral Reef Ecology Course James Cook University
2016 Best Assignment on "*Coral reef crisis: an assessment of the human impact on coral reefs in 51 years*" – Marine Conservation Biology Course James Cook University
2014 Outstanding Flagship Project Award 9th Global Regional Community Empowerment Conference, Okayama Japan
2014 Winner Of National Essay Competition on Biopiracy and Biodiversity in Indonesia
2013 Selected as a national student researcher for a biodiversity expedition on Celebes Island, Indonesia

PUBLICATIONS

Scientific Papers

Hadisusanto, S., Purnomo, P., Trijoko, T., **Reza, A.**, Eprilurahman, R., Yudha, D. S., ... & Abdullah, F. N. (2022). *Biodiversity monitoring as a baseline for PROPER biodiversity protection program of PT. Geo Dipa Energi Dieng, Central Java, Indonesia*. Biodiversitas Journal of Biological Diversity, 23(9). <https://doi.org/10.13057/biodiv/d230912>

Priyono, D. S., **Reza, A.**, Eprilurahman, R., Yudha, D. S., Mufti, F., Fauzy, N. H., ... & Adhi, P. K. (2022). *Aquatic biodiversity in a pond on the airport landside areas through environmental DNA metabarcoding: Implementation for Aviation Security Management*. Biodiversitas Journal of Biological Diversity, 23(7). <https://doi.org/10.13057/biodiv/d230741>

Mawarni, A., Azizah, F. N. N., Sartika, H. W., Hadisusanto, S., Putri, D. M., & **Reza, A.** (2020). *Community of phytoplankton in peatland canal, Riau, and wet dune slacks of Parangtritis, Yogyakarta, Indonesia*. Biodiversitas Journal of Biological Diversity, 21(5). <https://doi.org/10.13057/biodiv/d210513>

Lie, S., Suyoko, A., Effendi, A. R., Ahmada, B., Aditya, H. W., Sallima, I. R., ... & **Reza, A.** (2018). *Measurement of microplastic density in the Karimunjawa National Park, Central Java, Indonesia*. Indo Pacific Journal of Ocean Life, 2(2), 54-58. <https://doi.org/10.13057/oceanlife/o0202xx>

Sancayaningsih, R. P., Suryanto, E., **Reza, A.**, & Wiryawan, I. F. (2016). *Community empowerment program in Pinogu Subdistrict, Bone Bolango Regency, Gorontalo Province, Indonesia: Concerning to the unique biodiversity conservation*. Indonesian Journal of Community Engagement, 1(2), 183-193. <https://doi.org/10.22146/jpkm.10604>

Conference Proceeding

- Reza, A.**, & Sancayaningsih, R. P. (2017). *Diversity, Distribution and Abundance of Scleractinian Coral in District-based Marine Protected Area Olele, Bone Bolango, Gorontalo-Indonesia*. KnE Life Sciences, 14-27. DOI 10.18502/cls.v3i4.683, pp. 14-27
- Firaswan, A., Aryandari, R., **Reza, A.**, Faizah, N., Rachman, N., Ramadhani, A. F., & Andalas, M. S. (2017). *Isolation Hope and Threat of Mangrove Restoration Program in Bogowonto Lagoon, Yogyakarta-Indonesia (2002-2014)*. KnE Life Sciences, 1-13. DOI 10.18502/cls.v3i4.680, pp. 1-13
- Reza, A.**, Wiryawan, I. F., Pertiwi, G.A., Lesmana, I., Nugraha, H. (2013). *Observation of Behaviour, Feed, and Habitat of Tarsius spectrum in the secondary forest around Bogani Nani Wartabone National Park, Gorontalo*. National Scientific Seminar on Ecology and Conservation 1-13. pp. 23-28. ISBN 978-602-97683-3-6

Books

- Reza, A.**, Stevanus., Nirwantono, R., Aji, R. M., Salsinha, Y. F., Oris, D.P., Muhammad, H., Miranda, Y. Pramana, A. A. C., Saputra, F.A., Ashmarisya, S., Kusuma, K. W., Nugraha, R. (2014). *Indonesia does not look sovereign: a perspective on Biopiracy and Biodiversity*. Bulaksumur Empat. ISBN 978-602-17252-7-6

Online Bulletin

- Reza, A.** (2018). Let us reduce our plastic consumption. ERUPSI Vol 18 pp. 21-25. Available at https://issuu.com/tamboramuda/docs/erupsi_volume_18_-_final
- Reza, A.** (2017). Are you a Conservationist? ERUPSI Vol 17 pp. 25-27. Available at https://issuu.com/tamboramuda/docs/erupsi_volume_17_-_final

PRESENTATIONS

Scientific conference/seminar/meeting

- 2022 *Unexpected coral cover and diversity in high wave regime environment at Sadranan Beach Southern Coast of Java Indonesia – The 15th International Coral Reef Symposium (Oral Presenter-Virtual)*
- 2015 *Diversity, Distribution, and Abundance of Scleractinian Coral in District-based Marine Protected Area Olele, Bone Bolango, Gorontalo-Indonesia – The 4th International Conference on Biological Science (Oral Presenter)*
- 2015 *Isolation Hope and Threat of Mangrove Restoration Program in Bogowonto Lagoon, Yogyakarta-Indonesia (2002-2014) – The 4th International Conference on Biological Science (Poster Presenter)*
- 2013 *Observation of Behaviour, Feed, and Habitat of Tarsius spectrum in the secondary forest around Bogani Nani Wartabone National Park, Gorontalo, Indonesia – Scientific national Seminar on Ecology and Conservation-Universitas Hasanuddin Makassar (Oral Presenter)*

Invited Speakers

- 2022 How climate change affects biodiversity in Indonesia? – Universitas Padjajaran
- 2021 Climate change and our ocean – Teens Go Green Indonesia
Current global initiatives of coral reef conservation – Universitas Gadjah Mada
Finding the gaps in coastal research on the Eastern part of Sumatera – Universitas Jambi
- 2020 Ecosystem recovery during COVID is a bump! – Universitas Sebelas Maret

- The marine ecosystem, COVID-19, and global change – Universitas Gadjah Mada
- 2019 The challenge of reef-based tourism – Universitas Gadjah Mada
 Marine debris and marine wildlife – Greenpeace Youth & Whale Stranding Indonesia
 Human-Marine Wildlife interaction – Wildlife Study Group Universitas Gadjah Mada
- 2015 Marine conservation and youth awareness – Youth Southeast Asian Leaders Initiative (YSEALI)

WORK EXPERIENCE

- 2018 – Present **Junior Lecturer, Ecology and Conservation, Universitas Gadjah Mada**
- 2017 – Present **Member Relations, Tambora-Indonesian Young Conservationist Network**
- 2021 **Independent Expert Staff, WWF Indonesia**

TEACHING AND MENTORING EXPERIENCE

Undergraduate Course (2020-Present)

Ecology*, Environmental Science*, Environmental Pollution and Toxicology

Undergraduate Practicum (2018-Present)

Ecology*, Advanced Ecology*, Environmental Pollution and Toxicology, Marine Ecology, Limnology, Conservation Biology

Postgraduate Practicum (2018-Present)

Environmental Pollution and Toxicology, Marine Ecology, Limnology, Conservation Biology, Vegetation Ecology

Summer Course*

Calculating coral cover using Coral Point Count with Excel Extension (CPCE), Fieldwork on Intertidal Ecology, Bibliographic analysis of environmental research using VOS Viewer, Unmanned Aerial Vehicles for ecological research

**International Undergraduate Program with UTHM Malaysia and UTAR Malaysia*

Undergraduate Students

2020: Nurul Azkiyatul Fitriyah- Marine lakes benthic community, 2019: Khorul Anam, Bayu, Agum-Behavioural ecology of the rescued animal

PROFESSIONAL ACTIVITIES

Journal Review

HAYATI Journal of Biosciences (2 articles), Berkala Ilmiah Biologi (1), 3BIO: Journal of Biological Science (1)

Committee

- 2021 Database management protocol of Indonesia Biodiversity Index (IBI)
- 2019 Chairman of the National Seminar on Tropical Biology Faculty of Biology UGM

VOLUNTEER ACTIVITIES

- 2 months-12/2016-01/2017 Research Assistant – James Cook University "*Dissolved oxygen as a constraint for the structure of mangrove fish assemblages and their patterns of mangrove utilization.*"
- 4 months-03/2017-06/2017 Research Assistant – James Cook University "*Nitrogen economies and trapping capacities of Australian tropical Drosera.*"
- 11 months-08/2016-06/2017 Film Crew - James Cook University Sustainability Club "*Life in a sustainable way (composting, reducing plastic, using biodegradable packaging).*"
- 2 months-06/2016-07/2016 Ecofiesta Townsville – "*Assists the local community in becoming more environmentally conscious*"
- 1 month-03/2016-04/2016 Clean Up Australia Day
- 3 months-04/2011-06/2011 Unit Production Manager of Short Documentaries – Bingkai Indonesia "*Living harmony with nature and disaster.*"

COMMUNITY ENGAGEMENT AND OUTREACH

- 2021-2022 *Coastal ecosystem conservation and home-scale agriculture initiative.* In collaboration with Social Development Studies Center (SODEC) UGM and Mubadala Energy
- 2019 *Improved the economic value of plastic bottle waste through the recycling process at Coastal community Yogyakarta Indonesia.* In collaboration with Tanjungsari District Yogyakarta, ATI Makassar Polytechnique, Edinburgh University, and The Global Challenges Research Fund (GCRF)
- 2019 *Facilitated a stakeholder engagement with local government and NGOs to establish educational material, a monitoring protocol, and a code of conduct for Marine Lakes conservation in East Borneo, Indonesia.* In collaboration with Maratua District East Kalimantan, Ministry of Maritime Affairs and Fisheries, Yayasan Penyu Indonesia- Indonesian Turtle Foundation, and The Nature Conservancy

CERTIFICATION/TRAINING

- 2022 Drone Pilot Certification
- 2017 First Aid and CPR
- 2016 PADI Advanced Open Water SCUBA Diver
- 2013 PADI Open Water SCUBA Diver

ASSOCIATION & ORGANIZATION

- International Coral Reef Society – Member
- Society for Ecological Restoration – Member
- Society for Indonesian Biodiversity – Member
- Tambora – Young Indonesian Conservationist Network – Member Relation Division
- James Cook University Indonesian Student Association – President
- Faculty of Biology Student Executive Board – Chairman