Staff Handbook

Name	**Dwi Anggorowati Rahayu**
Position	Lecturer
Academic Career	

Academic Appointment	Institution	Year
Master Degree (Biology)	Brawijaya University	2013
Undergraduate degree (Biology)	State University of Malang	2011

Employment

No	Position	Employer	Period
1	Laboratory assistant (Molecular Laboratory)	State University of Malang	2013-2015
2	Lecturer (Biology Study Programme)	Borneo Tarakan University	2015-2017
3	Lecturer	Universitas Negeri Surabaya	2018-now
4	Quality Assurance Unit, Department of Biology, Universitas Negeri Surabaya		2019-2021
5	Publication Team, Universitas Negeri Surabaya		2021-2022
6	Sinta Team, Universitas Negeri Surabaya		2020-2022
	Secretary of the Science and Technology Division, SATINOV UNESA		

No	Position	Employer	Period
1	Laboratory assistant (Molecular Laboratory)	State University of Malang	2013-2015
2	Lecturer (Biology Study Programme)	Borneo Tarakan University	2015-2017
3	Lecturer	Universitas Negeri Surabaya	2018-now
4	Quality Assurance Unit, Department of Biology, Universitas Negeri Surabaya	Universitas Negeri Surabaya	2019-2021
5	Publication Team, Universitas Negeri Surabaya		2021-2022
6	Sinta Team, Universitas Negeri Surabaya		2020-2022
	Secretary of the Science and Technology Division, SATINOV UNESA		
7	Head of Internship, Research, and Independent Study (SIB) Section		2021-2022
8			2023-sekarang

Research and development projects over the last 5 years

No	Name of project or research focus	Period	Partners	Amount of Financing
1	Development of an e-Learning Module for the Molecular Biology Course, Department of Biology, Universitas Negeri Surabaya (as team leader)	2018	Prof. Dr. Isnawati, M.Si	20
2	Study on Storage Capacity at Low Temperatures, Protein Profile, and Genetic Stability of Senduro Goat Spermatozoa in Simple and Commercial Semen Diluents (As team researcher)	2019	Prof. Dr. Nur Ducha, M.Si	50
3	Development of an English-Language Electronic Book on Animal Systematics to Foster Digital Literacy among Prospective Biology Teachers (As team researcher)	2019	Reni Ambarwati, M.Sc Dr. Ulfi Faizah	20
4	Innovation in Natural Resource Conservation Learning Based on Augmented Reality and Virtual Laboratory (AR&VL) to Foster Conservation Awareness among Students (As team researcher)	2020	Prof. Dr. Fida Rachmadiarti, M.kes Dr. Muji Sri Prastiwi, M.Pd Reni Ambarwati, M.Sc	100
5	Exploration of Angiotensin-Converting Enzyme 2 and Antiviral Candidates from Marine Biota to Inhibit SARS-CoV-2 Transmission through an In Silico Approach (As team researcher)	2020	Reni Ambarwati, M.Sc	20
6	Eksplorasi Biodiversitas Vegetasi Mangrove Pantai Bancaran Madura Sebagai Ikon Destinasi Ekowisata Bahari (As team researcher)	2021	Prof Dr. Tarzan Purnomo, M.Si	20
7	Morphological Variation and Genetic Diversity of Local Uceng Fish (*Nemacheilus* sp.) from Blitar Regency (As team leader)	2022	Dr. Sunu Kuntjoro Dr. Widowati Dr. Winarsih	20
8	DNA Barcoding of *Meretrix* sp. (Mollusca: Bivalvia) from Bancaran, Madura	2022	Reni Ambarwati, M.Sc	20
9	Development of a Monograph Book on Metacognitive Strategies	2022	Prof Endang Susantini Dr. Pramita Yakub	50
10	Development of an Assessment Link Application for Science and Mathematics Teachers	2022	Prof Endang Susantini Prof Sucipto	325

	11	Evaluation of Biology Education Graduates' Competencies Based on User Feedback	2023	Dr. Rinie Pratiwi, Reni Ambarwati, M.Sc Dr Pramita	20
	12	COX1 Barcode of Edible Bivalves (Family Pharidae) from Bangkalan, Madura	2023	Reni Ambarwati, M.Sc	35
	13	Genetic and Phylogenetic Identification of the Fishing Cat (Prionailurus sp.) Based on COI and Cytb Genes for the Conservation of Endangered Local Wildlife in Indonesia	2023	Dr. Sunu Kuntjoro, M.Si	20
	14	Development of a Learning Model Incorporating Sustainable Development Goals (SDGs) for Unesa as a Legal Entity State University in the Digital Era (As team researcher)	2023	Prof Dr. Fida Rachmadiarti, M.Si Eny Susiawati, PhD Ika Diyah, MSc Dr. Muji Sri Prastiwi	50
	15	Development of a Prototype of Unesa High-Performance Sportswear Featuring Artwork Visualization by Children with Special Needs	2023	Prof Endang Susantini, Arsy Syam, M.Ed	75
	16	Design of Blended Learning for Optimizing the Implementation of the Independent Learning–Independent Campus (MBKM) Program in Higher Education	2023	Eny Susiawati, PhD Prof Erman	120
	17	Haplotype Networking of Local Mimi Mintuna from East Java through an Integrative Morphogenetic Approach as a Strategy for Sustainable Aquaculture Development	2024	Dr. Ulfi Faizah Reni AMbarwati, M.Sc Dr. Noorhidayah (Malaysia)	50
	18	Redefining Hotspots of Uceng Fish (Nemacheilus spp.) Endemic to Lumajang through an Integrative Morphogenetic and Bioecological Approach as a Strategy for Developing Sustainable Aquaculture of Potential Local Fish in East Java	2024	Dr. Sunu Kuntjoro Dr. Widowati Dr Winarsih Dr. Noorhidayah (Malaysia)	20
	19	DEVELOPMENT OF A TEXTBOOK ON CONSERVATION OF NATURAL RESOURCES AND ENVIRONMENT INCORPORATING SUSTAINABLE DEVELOPMENT GOALS (SDGs)	2024	Dr Ulfi Faizah Reni Ambarwati	50
	20	Implementation of Learning Models Incorporating SDGs in Science, Technology, and Social Science Courses in Higher Education	2024	Prof Fida rachmadiarti Dr. Muji Sri Prastiwi	50
	21	Mapping of Freshwater Snails (Mollusca: Gastropoda) on Madura Island to Support Freshwater Ecosystem Conservation	2025	Reni AMbarwati, M.Sc Dr. Ulfi faizah	50
	22	Implementation of a Project-Based Learning (PjBL) Model to Instill Sustainability Values Oriented Toward Biodiversity in the Animal Systematics Course	2025	Reni AMbarwati, M.Sc Dr. Ulfi faizah	50
	23	Genetic Characterization of Earthworms in Bangkalan, Madura through DNA Barcoding for the Traceability of Potential Megascolecidae in East Java	2025	Dr Widowati Bertha Yonanta, M.Pd	50
	24	DNA Barcoding of the Brown Macroalga Padina australis from the Coast of Tuban, Indonesia	2025	Prof Fida rachmadiarti Prof Yuliani Prof nur ducha Reni Ambarwati, M.Sc	50
	25	Multi-omics Integration of Tor douronensis from Telaga Banyu Biru, Pasuruan as a Basis for Evidence-Based Policy in Conservation Management and Feed Innovation for the Sustainability of Indonesia's Fishery Resources	2025	Reni Ambarwati, M.Sc Dr. Ulfi Faizah Firas Khaleyla, M.Sl	50
	26	Exploration of Gastropods and Bivalves from Bohay Beach, Probolinggo to Support Coastal Area Conservation	2025	Reni Ambarwati, M.Sc Dr. Ulfi Faizah	35
	27	Antibiotic Potential of Local Earthworms: Innovation in Herbal Medicine Development for Typhoid Treatment to Support the Independence of the National Pharmaceutical Industry and Sustainable Development	2025	Dr Widowati Bertha Yonanta, M.Pd	50
	28	Biodiversity of the Intertidal Zone of Klayar Putri Beach, Lamongan to Support Sustainable Local Community Development	2025	Reni Ambarwati, M.Sc Dr. Ulfi Faizah	35
	29	Tree Diversity and Its Contribution to Carbon Stock in the UNESA Campus Forest	2025	Prof Dr. Fida Rachmadiarti Reni Ambarwati, M.Sc	50
	30	Utilization of Data Mining to Analyze Student Academic Achievement Based on Admission Pathways at UNESA	2025	Dr. Sukarmin Prof Dr. Fida	50
	31	Bioprospecting of Local Uceng Fish (Nemacheilus spp.) from East Java: eDNA–Nutrigenomic Profile for Breeding Modeling and Functional Food Security	2025	Dr. Noorhidayah Dr. Widowati Dr Hoonesty	118

Industry collaborations over the last 5 years

No	Project title	Partners
1	Development of an Assessment Link Application for Science and Mathematics Teachers	Kuanta

Patents and proprietary rights over the last 5 years

No	Title	Year

Important publications over the last 5 years

Total number:38

1. Nugroho ED, **Rahayu, D.A**, Ainiyah. R. Diversity of bird agroforestry species in Sapen Nusantara Conservation Park of Mount Arjuno, Pasuruan. Edubiotik: Jurnal Pendidikan, Biologi Dan Terapan. 2021 Oct 8(1): 17-28
2. Nugroho ED, **Rahayu DA,** Ardiansayah, R, Kurniawan N. Species identification of echinoderms from Gili Ketapang Island by combining morphology and molecular data. Aquaculture, Aquarium, Conservation & Legislation. 2023 16 (1): 135-150
3. R Yolanda, R Ambarwati, **Rahayu DA,** W Budijastuti, H Fitrihidajati. An annotated checklist of the species of Lopogastrida and Mysida (Crustacea: Peracarida) from Thailand and its adjacent waters. Zootaxa. 2023 5244(1): 201-233.
4. R Yolanda, R Ambarwati, **Rahayu DA,** AA Rahim, R Sriwoon, V Lheknim. Population Structure and Reproductive Biology of the Mysid Rhopalophthalmus hastatus Hanamura, Murano & Man, 2011 (Crustacea: Mysida) in the Songkhla. Thalassas: An International Journal of Marine Sciences. 2023 39(1): 287-300.
5. Djomadiah, **Rahayu DA**, Ambarwati R. DNA barcoding Clithon sp. (Gastropoda: Neritidae) from Badur Beach, Madura, Indonesia, based on COI gene molecular marker. Biodiversitas Journal of Biological Diversity. 2023 24(5): 2779-2787
6. DA Wijaya, C.B., Ambarwati, R., **Rahayu DA**. Morphological and molecular characteristics of Donax incarnatus (Bivalvia: Donacidae) from Badur Beach, Madura Island, Indonesia based on the COX1 gene. Biodiversitas Journal of Biological Diversity. 2023 24 (3), 2805-2813
7. Isnawati, Muhaimin F, **Rahayu DA,** Fitrihidajati. Probiotics formulated from indigenous bacteria from goat digestive tract and fed with fermented mixed feed Eichhornia crassipes and Zea mays cobs. 2023. Biodiversitas Journal of Biological Diversity 24 (5)

	8. Y Kurniawati, AY Maramis, I Mudloifah, **DA Rahayu**. Abundance and Potential of Asteroidea as Bioindicator of Lead (Pb) in the Coastal Zone at Bangkalan Regency, Madura. Biotropika: Journal of Tropical Biology. 2023 11 (2), 94-100. 9. ED Nugroho, R Ardiansyah, N Kurniawan, Widodo, **DA Rahayu**. An in-silico study on the chemical compounds from Macrophiothrix longipedia as antiviral compounds against COVID-19. 2023 16(4): 2380-2390 10. S Kuntjoro, **Rahayu DA**, W Budijastuti, W Winarsih. The Vulnerable Fishing Cat Prionailurus viverrinus from Wonorejo Mangroves, Surabaya, Indonesia Based on Morphology and Molecular Data. 2023 Jurnal Biodjati 8 (2): 306-315 11. **DA Rahayu**, S Kuntjoro, W Budijastuti, W Winarsih, R Ambarwati. Further Study on Two Species of Loach Fishes (Cypriniformes: Nemacheilidae: Nemacheilus) Based on Morphology and Molecular Data. BIOTROPIA 2023 30 (3), 329-345. 12. AM Sururi, **Rahayu DA**, MK Rohma, M Faizah, EA Vebianawati, M Savita. GC–MS and ADME profile analysis of Carcinoscorpius rotundicauda bioactive compounds and their potential as COVID-19 antiviral. Future Journal of Pharmaceutical Sciences. 2024 9 (1), 115. 13. ED Nugroho, AM Sururi, R Ardiansyah, **Rahayu DA**, R Ainiyah. Potential of the flavonoid compounds of Ageratum conyzoides as candidates for the treatment of foot-mouth-diseases (FMD) in livestock animals: a bioinformatics. 2023. International Journal of Computational Biology and Drug Design 2024 16 (1), 1-18. 14. ED Nugroho, AM Sururi, R Ardiansyah, **Rahayu DA**, R Ainiyah. Bioinformatics Approach: Evaluating the Antiviral Potential of Flavonoid Compounds from Phyllanthus urinaria against Foot-and-Mouth Disease in Livestock Animals. ALCHEMY: Journal of Chemistry. 2024 12 (1), 42-48 15. Ambarwati R & **Rahayu DA.** Revealing species identity of edible razor clam Cultellus sp.(Bivalvia: Pharidae) from Madura Island, Indonesia. 2024 Biodiversitas Journal of Biological Diversity 25 (4). 16. MD Arumsari, AM Sururi, E Hendrata, RKZ Kamila, DMF Wibowo, **Rahayu DA**. In Silico study: ACE inhibitory activity as a marine animal fatty acid antihypertensive candidate. 2024 Jurnal Biodjati 9 (1), 80-89. 17. RKZ Kamila, AM Sururi, MD Arumsari, E Hendrata, DMF Wibowo**, Rahayu DA**. Study in Silico on Effectiveness of Blood Cockle (Anadara nodifera) Fatty Acid Isolate to Reduce Hypertension. Thalassas: An International Journal of Marine Sciences 2024 40 (2), 857-868. 18. E Nugroho, AM Sururi, **Rahayu DA**, R Ardiansyah, N Kurniawan. Composition of volatile bioactive compounds of sea cucumber (Holothuria atra) extract and their bioactivity as antivirals for SARS-CoV-2 COVID-19. 2024 Berkala Penelitian Hayati Journal of Biological Researches 30 (2), 76-8. 19. Cavt Sulung, **Rahayu DA**, Nugroho ED. Morphology and COI barcodes reveal local loaches (Nemacheilus spp.) from Pasuruan River, East Java, Indonesia. 2024 Biodiversitas: Journal of Biological Diversity 25 (7). 20. N Khoiriza, **Rahayu DA**, AS Nurinsiyah. Genetic Characterization of The Gold Ringed Cowry (Monetaria an Nulus Linnaeus, 1758) From Nunuhu Beach, North Moluccas ProvInce Based On Cytochrome Oxidase Subunit I Sequence Gene. Zoo Indonesia 33 (1) 21. R Ambarwati, F Rachmadiarti, H Fitrihidajati, T Purnomo, **Rahayu DA**. Morphological and Molecular Characterization of Donax Faba (Bivalvia: Donacidae) Obtained from Kutang Beach, Lamongan, Indonesia. 2024 BIOTROPIA 31 (2), 238-252. 22. UA Khusna, HN Fadzilah, M Raihan, HP Pramesti, EN Salfiah, **Rahayu DA**. Phenetic taxonomy approach: Identifying relationship of local gelodok fish in East Java. 2024 Edubiotik: Jurnal Pendidikan, Biologi dan Terapan 9 (01), 61-70. 23. ED Nugroho, AM Sururi, **DA Rahayu**, R Ardiansyah, N Kurniawan. Diadema setosum Chemical Compounds with GC-MS Analysis as a Triple Inhibitor Antiviral Covid-19. 2024 Thalassas: An International Journal of Marine Sciences 40 (3), 1401-1407. 24. **Rahayu DA**, R Ambarwati, U Faizah, Ed Nugroho. Genetic diversity and phylogenetic reconstruction of horseshoe crabs from East Java, Indonesia based on DNA barcode COI. Biodiversitas: Journal of Biological Diversity 25 (10). 25. Rahayu Y, Mtri Asri, **Rahayu DA**. Molecular characterization and evaluation of potential isolated bacteria in optimizing former coal mining land as a planting media in East Kalimantan, Indonesia. 2024 Biodiversitas: Journal of Biological Diversity 25 (11). 26. R Ambarwati, **Rahayu DA**, U Faizah, DA Nugroho, R Yolanda. A Small Collection of Brachyuran Crabs (Crustacea: Decapoda) from Lamongan Waters, East Java, Indonesia. Thalassas: An International Journal of Marine Sciences. 2024 40 (4), 1635-1643 27. R Ulia A. Khusna, Heni N. Fadzilah, Muhammad Raihan, Hervanny P. Pramesti, **Rahayu DA.** DNA barcode of mudskipper based on DNA mini barcode COI from the North Coast of East Java, Indonesia. 2024 AACL Bioflux 17 (6), 3063-3075. 28. R Rusdianto, H Haryono, R Gustiano, G Wahyudewantoro, I Hidayatullah, **Rahayu DA**. Fish biodiversity in the Kampar watershed: an overview of the potential, threats, and management strategies. 2025 IOP Conference Series: Earth and Environmental Science 1438 (1), 012034 29. U Faizah, R Ambarwati, **Rahayu DA**, MKA bin Ahmad. Implementation of the PjBL learning model to provide biodiversity-oriented sustainability values in the animal systematics course to realize goal life on land and below water. 2025 E3S Web of Conferences 640, 02013 30. R Ambarwati, **Rahayu DA**, U Faizah, Nurr Isnaningsih. DNA barcode of native apple snail Pila virescens (Deshayes,1824) (Gastropoda: Ampullariidae) from Madura Island, Indonesia. 2025 Biodiversitas Journal of Biological Diversity 26 (3) 31. TLS Rohmah, MR Afnani, **DA Rahayu**. Gastropod Diversity in Pacar Pucang Laban Beach Tulungagung Regency. 2025 Sains dan Matematika 10 (1), 29-36 32. R Ambarwati, **Rahayu DA,** AM Sururi, T Purnomo, F Rachmadiarti. Potency of Bioactive Compounds of Hard Clam Meretrix sp. as Antiviral SARS-CoV-2. Thalassas: An International Journal of Marine Sciences 41 (2), 115. 33. Rahayu DA, W Budijastuti, S Kuntjoro, Ed Nugroho. Morphological and genetic variation of local loach (Nemacheilus spp.) from Lumajang, East Java, Indonesia. 2025. Biodiversitas: Journal of Biological Diversity 26 (6) 34. **Rahayu DA,** ED Nugroho, CAVT Sulung, R Rusdianto, NB Mamat. Morphological plasticity of uceng fish (Nemacheilus spp.): A statistical exploration of water quality influences in East Java's River. 2025 Edubiotik: Jurnal Pendidikan, Biologi dan Terapan 10 (01), 332-348 35. AE Damayanti, CN Rabbani, CAVT Sulung, R Rusdianto, ED Nugroho, **Rahayu DA**. Molecular Analysis and Morphological Characterization of *Tor* sp. using DNA Barcode COI from Telaga Rambut Monte, Blitar, East Java, Indonesia. Biotropika: Journal of Tropical Biology 13 (2), 133-148. 36. CN Rabbani, AE Damayanti, CAVT Sulung, DA Rahayu, ED Nugroho, **Rahayu DA.** Morphology and Molecular Identification of Cyprinidae from the Sumber Umbulan Ngenep, Malang Regency, East Java. Jurnal Riset Biologi dan Aplikasinya 7 (2), 142-159. 37. Vio, Rangga, Khaleyla F, **Rahayu DA**. Morphological and Molecular Characterization of Pufferfish from Lekok Coastal Area, Pasuruan Indonesia. 2025. Biosaintifika: Journal of Biology & Biology Education, 17(3). https://doi.org/10.15294/biosaintifika.v17i3.26663 38. HH Nugroho, R Ambarwati, NR Isnaningsih**, Rahayu DA**. Morphological and Genetic Variation of Filopaludina javanica (von dem Busch, 1844)(Gastropoda: Viviparidae) from Madura Island, Indonesia. HAYATI Journal of Biosciences 33 (1), 264-277.

Activities in sepecialist bodies over the last 5 years

Organization	Role	Period
Indonesian Association of Biology Educators and Researchers (HPPBI) East Java	Executive committee	2018-sekarang
Indonesian genetic and Biodiversity Community	Executive committee	2018-sekarang

*Membership without a specific role need not be mentioned