Staff Handbook

Name	**Prof. Dr. Drs. Tarzan Purnomo, M.Si.**
Position	Lecturer

Academic Career

Academic Appointment	Institution	Year
Habilitation [post-doctoral qualification] (Marine Ecology)	Victoria University of Wellington, New Zealand	2013
Doctorate (Coastal and Marine Environments)	Brawijaya University, Malang	2011
Master (Biology)	Gadjah Mada University, Yogyakarta	1998
Undergraduate degree (Biology Education)	Teacher Training and Education Institute, Surabaya	1991
Habilitation [post-doctoral qualification] (Marine Ecology)	Victoria University of Wellington, New Zealand	2013

Employment

No	Position	Employer	Period
1	Lecturer	Biology FMIPA UNESA	1992 - Present

Research and development projects over the last 5 years

No	Name of project or research focus	Period	Partners	Amount of Financing
1	Implementation of Microbial and Botanical Bioinsecticides in Photo-Protectant Formulas to Create Sustainable Agroecosystems		National Institutional Strategy Research	IDR 200.000.000 (€10,316.58)
2	Exploration of the Biodiversity of Mangrove Vegetation on Bancaran Beach, Madura as an I of Marine Ecotourism Destination.		PNBP	IDR 25.000.000 (€1,289.57)
3	The Potential of Invertebrate Biodiversity in the Bancaran Mangrove, Madura, as a Source of SARS-CoV-2 Antiviral Compounds.		PNBP	IDR 40.000.000 (€2,063,32)
4	Nanoencapsulated bioprospecting of local bacterial secondary metabolites as anticancer agents		PNBP	IDR 20.000.000 (€1,031.66)
5	Analysis of Water Quality and Biosafety of Mangrove Biota on Bancaran Beach, Bangkalan Madura.		PNBP	IDR 20.000.000 (€1,031.66)
6	Bioaccumulation of Lead (Pb) and Cadmium (Cd) in *Padina australis* Hauck on Palang Beach, Tuban Regency, East Java		PNBP	IDR 50.000.000 (€2,579.15)
7	Study on Seagrass Conditions on Bama Beach, Baluran National Park, East Java.			IDR 20.000.000 (€1,031.66)
8	Phytoforensics of Lead (Pb) and Its Effect on Protein Content of Jeruju Leaves (*Achantus ilicifolius*) in Wonorejo Mangrove Forest.		PNBP UNESA, Competitive Research	IDR 30.000.000 (€1,547.49)
9	Identification of Heavy Metal Content in White-nest Swiftlet (Aerodramus fuciphagus) Feathers as a Bioindicator of Environmental Pollution Using Instrumental Neutron Activation Analysis (INAA).		PNBP UNESA Assignment research	IDR 30.000.000 (€1,547.49)
10	Development of a Conservation of Natural Res and Environment Textbook Containing Susta Development Goals (SDGs).			IDR 20.000.000 (€1,031.66)
11	Biodiversity of the Intertidal Zone of Klayar Putri Beach, Lamongan to Support Sustainable Local Community Development.		PNBP UNESA, Competitive Research	IDR 30.000.000 (€1,547.49)

Industry collaborations over the last 5 years

No	Project title	Partners
1.	Professional Training in the Field of Implementing Water and Soil Conservation Area Management Planning.	*Bexcellent Consultant*, Jogjakarta, Agustus 2025

	2.	Professional Training for Implementing Marine Conservation Area Management Planning.	*Bexcellent Consultant*, Jogjakarta, Desember 2024
	3.	Professional Training for Implementing Marine Conservation Area Management Planning. Marine Water Health Determination Training	*Bexcellent Consultant*, Jogjakarta, Oktober 2023
	4.	Beach School for the Young Generation	Association of Indonesian Coastal Management Experts East Java, 2023
	5.	Education and Training for Members of the East Java Coastal Management Experts Association.	Department of Fisheries and Maritime Affairs of East Java Province, 2023
	6.	Education and Training Management and Supervision of Marine Protected Areas	Association of Indonesian Coastal Management Experts East Java, 2023
	7.	Training and Empowerment of the Gili Labak and Gili Genting Islands Communities in Sumenep	Association of Indonesian Coastal Management Experts East Java, 2023
	8.	Habitat Conservation Area Zones Lecturer Professional Certification Assessor Biology Teacher Professional Certification Assessor	Association of Indonesian Coastal Management Experts East Java, 2022
	9.	Science Teacher Professional Certification Assessor	Ministry of Education and Culture
	10.	Lecturer Performance Load Assessor	Ministry of Education and Culture
	11.	Wastewater Management Professional Certification Assessor	Ministry of Education and Culture
	12.	Assessors for the East Java Teacher and Education Personnel Innovation Competition in the Environmental Sector	East Java Provincial Education Office
	13.	Education and Training for Coastal Area and Small Island Management	Association of Indonesian Coastal Management Experts East Java, 2022
	14.	Education and Training for Management of Marine Ecotourism Areas	Association of Indonesian Coastal Management Experts East Java, 2021

Patents and proprietary rights over the last 5 years

No	Title	Year
1.	Method of Making Bioabsorbent from Cat's Tail Plant (*Typha Latifotia* L.) for Lead Phytoremediation	2019
2.	Liquid Biofertilizer Formulation to Decompose Profenofos and Chlorantraniliprole Pesticides	2023
3.	The Process of Making Biobactericides from Chitosan from Blood Clam Shells (*Anadara granosa*) to Eradicate *Ralstonia solanacearum* Bacteria.	2023

Important publications over the last 5 years

Total number: 14 titles

1. Ambarwati,R., Rahayu, DA, Sururi, AM., Purnomo, T., Rachmadiarti, F. and Fitrihidajati, H. Potency of Bioactive Compounds of Hard Clam *Meretrix* sp. as Antiviral SARS-CoV. *Thalassas: An International Journal of Marine Sciences (2025) 41:115*
2. Ambarwati, R., Rachmadiarti,F., Fitrihidajati,H., Purnomo, T., Rahayu,DA., and Faizah, U. Morphological and Molecular Characterization of *Donax faba* (BIVALVIA: DONACIDAE) Obtained from Kutang Beach, Lamongan, Indonesia. BIOTROPIA The Southeast Asian Journal of Tropical Biology. Vol.31 No.2, 2024: 238-252.
3. Rachmadiarti, F., Winarsih, Fitrihidajati,H., Purnomo,T., Kuntjoro, S., F. A. Nafidiastri,FA., Yolanda, R., Ambarwati, R., Rahayu, DA, Budijastuti,W., Faizah, U., Putriarti,D., and Rosyidah, NF.Bioaccumulation of Lead (Pb) and Cadmium (Cd) in *Padina Australis* Hauck at Palang Beach, Tuban, East Java, Indonesia. Nature Environment and Pollution Technology *An International Quarterly Scientific Journal Vol. 23 No. 3 pp. 1507-1516 2024.*
4. Fitrihidajati,H., Purnomo,T., Rachmadiarti,F., Ambarwati, R.,Yolanda, R. A Preliminary Study on the Water Quality from two Estuaries in Madura Island, East Java, Indonesia. Pollution. 9 (4), 1796-1807. https://doi.org/10.22059/poll.2023.356714.1832
5. Yolanda, R.,Ambarwati, R., Rahayu, DA.,, Budijastuti, W.,Fitrihodajati, H., Kuntjoro, S., Rachmadiarti, F., and Purnomo, T. An annotated checklist of the species of Lopogastrida and Mysida (Crustacea: Peracarida) from Thailand and its adjacent waters Zootaxa 5244 (3): 2023.201–232 https://www.mapress.com/zt.
6. Reni Ambarwati, R, Purnomo,T., Fitrihidajati,H., Rachmadiarti, F., and Rahayu, DA.Nutrient and Heavy Metal Contents of *Meretrix* sp. from Bancaran Estuary, Indonesia. MATEC Web of Conferences 372, 03007 (2022) ICST-2022
7. Purnomo, T., Sahani,K., and Wahyudi, T. Analysis of Carrying Capacity of Blekok Beach and Kerapu Beach Situbondo as Conservation Areas for Mangrove, Blekok Bird (Ardidae) and

<table>
<tr><td></td><td>Grouper Fish Cultivation (Epinephelus). E3S Web of Conferences 328, 08014 (2021) ICST 2021
8. Purnomo, T., Rokhmatin,D., and Rahayu, J. Suitability Analysis of Pond Ecosystems on the East Coast of Sidoarjo for Seaweed Cultivation on Productivity, Quality and Carrageenan Content of Gracilaria sp. ICST 2020.</td></tr>
<tr><td>Activities in sepecialist bodies over the last 5 years</td><td>
<table>
<tr><th>Organization</th><th>Role</th><th>Period</th></tr>
<tr><td>Maritime Partner Consortium, East Java Regional Center</td><td>Chairman</td><td>2023 – Present</td></tr>
<tr><td>Indonesian Coastal Management Experts Association, East Java</td><td>Research Coordinator</td><td>2023 - Present</td></tr>
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*Membership without a specific role need not be mentioned
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