

Staff Handbook

Please fill out and submit one table per person.

Name	Dr. Eminugroho Ratna Sari, S.Si., M.Sc.		
Post	Mathematics / Applied Mathematics		
Academic career	Doctoral Degree (Subject: Mathematics)	Universitas Gadjah Mada (UGM), Indonesia	2024
	Master Degree (Subject: Mathematics)	Universitas Gadjah Mada (UGM), Indonesia	2009
	Undergraduate Degree (Subject: Applied Mathematics)	Universitas Gadjah Mada (UGM), Indonesia	2007
Employment	Position: Lecturer	Employer: UNY	Period: 2009 -Current
Research and development projects over the last 5 years	1. MetaMathics: Laboratorium Virtual Matematika Berbasis Metaverse dan AI Terpersonalisasi untuk mahasiswa STEM Indonesia-China (Partners: Dwi Lestari, Year: 2025, funding: Rp 75.000.000,-) 2. Kontrol Optimal pada Model Pneumonia Berdasarkan Kelompok Umur dengan Pengobatan dan Vaksinasi (Partners: Dwi Lestari, Nikenasih B., Year: 2025, funding: Rp.18.000.000,-) 3. Pengembangan Aplikasi Berbasis Web untuk Optimasi Portofolio Menggunakan Pendekatan Klasik dan Hybrid (Partners: Dr. Retno Subekti, S.Si., M.Sc.; Rizky Nur'aini, S.Stat., M.Stat., Period: 2025, Amount of financing: Rp. 50.000.000) 4. Pemodelan Matematika Penyebaran Penyakit Kanker di Tingkat Sel pada Kasus Kanker Serviks dan Limfoma (Partners: Fajar Adi Kusumo (UGM), Sulasri Suddin, Year: 2023, funding: 75.000.000) 5. Pemodelan Matematika Biologi Tingkat Sel untuk Prognosis Penyakit Kanker (Partners: Fajar Adi Kusumo (UGM), Fitriana Yuli S., Year: 2021, funding: 70.000.000)		
Industry collaborations over the last 5 years	1. Sosialisasi Penggunaan Software JASP dalam Pengolahan dan Analisis Data (Workshop on the Use of JASP Software for Data Processing and Analysis) Year: 2025 Partners: Retno Subekti, Nur Insani, Fitriana Yuli Saptaningtyas, Indira Ihnu Brilliant (UNY, Indonesia) Amount of financing: Rp. 30.000.000,-		

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	Industry collaborations: Sekolah Tinggi Keguruan dan Ilmu Pendidikan (STKIP) Yayasan Pendidikan Ujung Pandang (YPUP) Makassar		
Patents and proprietary rights			
Important publications over the last 5 years	International & National Journal Publications 1. Sari, E.R., Puspita, N.P., Farah, R.N. Prevention of dengue virus transmission: insights from host-vector mathematical model, Mathematical Modelling and Control, Vol. 5, No. 2, 2025, https://www.aimspress.com/article/doi/10.3934/mmc.2025010 (Q2-Indexed) 2. Ma, R. N. F. A. R., Azmar, N. A. S. S., Azmi, M. S. M., Abd Karim, N. S., Husin, N. H. M., Misron, N., & Sari, E. R. Assessing Criteria for Photovoltaic Electric Vehicle Charging Stations in Malaysia: Analytic Hierarchy Process and Content Validity Index Analysis. Semarak International Journal of Civil and Structural Engineering, 1(1), 42-52, 2024, https://doi.org/10.37934/sijcse.1.1.4252a 3. Sari, E. R., Aryati, L., & Adi-Kusumo, F. An age-structured SIPC model of cervical cancer with immunotherapy. AIMS Mathematics, 9(6), 14075-14105, 2024, https://www.aimspress.com/article/doi/10.3934/math.2024685 (Q2-Indexed) 4. Sari, E. R., Adi-Kusumo, F., & Aryati, L. Mathematical analysis of a SIPC age-structured model of cervical cancer. Mathematical Biosciences and Engineering, 19(6), 6013-6039, 2022 https://www.aimspress.com/article/doi/10.3934/mbe.2022281 (Q2-Indexed) 5. Hidayati, N., Sari, E. R., & Waryanto, N. H. (2021). Mathematical model of Cholera spread based on SIR: Optimal control. PYTHAGORAS: Jurnal Matematika dan Pendidikan Matematika, 16(1), 70-83. https://journal.uny.ac.id/index.php/pythagoras/article/view/35729		

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Employment	Position: Lecturer	Employer: UNY	Period: 2009 -Current
	(Sinta-2 Indexed) International Conference 6. Sari, E.R., Aryati, L., Kusumo, F.A., Mathematical Model of Cancer Cell: The Dynamical Analysis, International Conference on Mathematics, Computational Sciences and Statistics, Indonesia, 29th September 2020. 7. Sari, E.R., Aryati, L., Kusumo, F.A., Global stability of cervical cancer cell model based on age structured, Biomath, University of Pretoria, June 20 - 25, 2021. 8. Sari, E.R., Aryati, L., Kusumo, F.A., Mathematical Modeling of Cervical Cancer Cells Based on Age-Structured, ICRIEMS, 10 – 11 August 2023		
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesian Mathematical Society (IndoMS Wilayah DIY Jateng)	Sekretaris	2025 - 2026
	Indonesian Bio-Mathematical Society (IBMS)	Member	2021 - current