

Staff Handbook

Please fill out and submit one table per person.

Name	Dr. Fitriana Yuli Saptaningtyas, S.Pd.Si. , M.Si.		
Post	Mathematics / Applied Mathematics		
Academic career	Doctoral Degree (Subject: Mathematics) Master Degree (Subject: Mathematics) Undergraduate Degree (Subject: Mathematics Education)	Universitas Gadjah Mada (UGM), Indonesia Institut Teknologi Sepuluh Nopember (ITS Surabaya), Indonesia Universitas Negeri Yogyakarta (UNY), Indonesia	2025 2007 2005
Employment	Position: Lecturer	Employer: UNY	Period: 2008 -Current
Research and development projects over the last 5 years	Komparasi Model Diskret dan Model Kontinyu pada Penyebaran Penyakit Demam Berdarah di DIY melibatkan nyamuk Wolbachia (Mathematical Analysis Of Two-Patch SIRS-SIW Model For The Dynamical 2 Transmission Of Dengue Fever Involving Wolbachia in Yogyakarta) Period: 2024 Partners Fithri Annisatun Lathifah, Fugo Takasu, Hartono, Kus Prihantoso Krisnawan Amount of financing: Rp24.000.000 Model Predator Prey interaksi Nyamuk Aedes aegypti dan nyamuk Wolbachia pada penyebaran penyakit DBD (Predator-Prey Model of the Interaction between Aedes aegypti Mosquitoes and Wolbachia Mosquitoes in the Spread of Dengue Fever) Period: 2025 Partners: Fithri Annisatun Lathifah, Hartono, Ikha Puspita Parwitasari Amount of financing: Rp24.000.000 Analisa Bifurkasi Hopf pada Model Penyebaran Penyakit Pneumonia dengan Delay Buatan (Partners: Dr. Hartono M.Sc.; Dr. Nikenasih Binatari, S.Si., M.Si., Dr. Dwi Iestari, M.Sc., Period: 2025, Amount of financing: Rp. 55.000.000) Perancangan dan Implementasi Project-base mathematics mobile learning untuk meningkatkan Keterampilan Komunikasi Matematis dan Kemandirian Belajar Siswa, (Partners: Dr. Kuswari Hernawati, S.Si., M.Kom., Dr. Retno Subekti, M.Sc., Period: 2024, Amount of financing: Rp. 45.000.000)		

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Employment	Position: Lecturer	Employer: UNY	Period: 2008 -Current
	5. Limit Cycle Pada model Matematika Interaksi antara Sel Kanker dan Sel Imun (Partners: Dr. Sri Andayani, S.Si., M.Kom, Dr. Retno Subekti, M.Sc., Year: 2023, funding: 15.000.000) 6. Optimal Kontrol pada Model Matematika Sel Kanker dengan Terapi Sistem Imun (Partners: Dr. Sri Andayani, S.Si., M.Kom, Year: 2022, funding: 20.000.000) 7. 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, Eminugroho Ratnasari, Indira Ihnu Briliant (UNY, Indonesia) Amount of financing: Rp. 30.000.000,- Industry collaborations: Sekolah Tinggi Keguruan dan Ilmu Pendidikan (STKIP) Yayasan Pendidikan Ujung Pandang (YPUP) Makassar 2. Workshop Penyusunan Modul Ajar Matematika SMP Berbasis Higher-Order Thinking Skills (HOTS) Period: 2025 Industry collaboration: SMP N 4 Pakem 3. Workshop pembuatan media pembelajaran matematika SMP berbasis Canva Period: 2024 Industry collaboration: SMP N 1 Jogonalan		

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Employment	Position: Lecturer	Employer: UNY	Period: 2008 -Current
Patents and proprietary rights			
Important publications over the last 5 years	International & National Journal Publications 1. <i>On accurate asymptotic approximations of roots for polynomial equations containing a small, but fixed parameter</i>, AIMS Mathematics;ISSN: 24736988Volume: 9Issue: 10Pages: 28542 - 28559, 10.3934/math.20241385 (Q1-Indexed) 2. <u>OPTIMAL CONTROL ANALYSIS ON A NEW COMPUTER VIRUS MODEL WITH SATURATED INCIDENCE, VACCINATION, AND TREATMENTS.</u> Communications in Mathematical Biology and Neuroscience (Q3-Indexed) 3. <u>Limit Cycle on the Forced Vibrations Oscillator with a Time-Varying Mass.</u> <u>International Journal of Differential Equations</u> (Q1-Indexed) 4. <u>Determining the location of limit cycle on weakly nonlinear van der Pol equation.</u> <u>AIP Conference Proceedings</u>. (Q4-Indexed) 5. <u>Determination of the level of seismic hazard in Yogyakarta using fuzzy simple additive weighting method.</u> <u>IOP Conference Series: Earth and Environmental Science</u> (Q4-Indexed) International Conference 6. FY Saptaningtyas, Hartono, Fithri Annisatun Lathifah, Mathematical model of the spread of dengue fever in Yogyakarta involving Wolbachia mosquito, The 7th International Seminar on Innovation in Mathematics and Mathematics Education (ISIMMED), Indonesia, 8-11th December 2024.		

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Employment	Position: Lecturer	Employer: UNY	Period: 2008 -Current
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	Indonesian Bio-Mathematical Society (IBMS)	Member	2021 - current