

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 Brilliant (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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	Master Degree (Subject: Mathematics)	Institut Teknologi Sepuluh Nopember (ITS Surabaya), Indonesia	2007
	Undergraduate Degree (Subject: Mathematics Education)	Universitas Negeri Yogyakarta (UNY), Indonesia	2005
Employment	Position: Lecturer	Employer: UNY	Period: 2008 - Current
Patents and proprietary rights			
Important publications over the last 5 years	International & National Journal Publications On accurate asymptotic approximations of roots for polynomial equations containing a small, but fixed parameter, AIMS Mathematics; ISSN: 24736988 Volume: 9 Issue: 10 Pages: 28542 - 28559, 10.3934/math.20241385 (Q1-Indexed) <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) <u>Limit Cycle on the Forced Vibrations Oscillator with a Time-Varying Mass.</u>, <u>International Journal of Differential Equations</u> (Q1-Indexed) <u>Determining the location of limit cycle on weakly nonlinear van der Pol equation.</u> <u>AIP Conference Proceedings</u>. (Q4-Indexed) <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 - 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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	<i>Master Degree (Subject: Mathematics)</i>	<i>Institut Teknologi Sepuluh Nopember (ITS Surabaya), Indonesia</i>	<i>2007</i>
	<i>Undergraduate Degree (Subject: Mathematics Education)</i>	<i>Universitas Negeri Yogyakarta (UNY), Indonesia</i>	<i>2005</i>
Employment	<i>Position: Lecturer</i>	<i>Employer: UNY</i>	<i>Period: 2008 - Current</i>
Activities in specialist bodies over the last 5 years	Organisation	Role	Period
	<i>Indonesian Bio-Mathematical Society (IBMS)</i>	<i>Member</i>	<i>2021 - current</i>