



UNIVERSITAS NEGERI YOGYAKARTA

Faculty of Mathematics and Natural Sciences
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STAFF HANDBOOK

Name	Fitriana Yuli Saptaningtyas, S.Pd., M.Si.		
Expertise	Analysis and Applied Mathematics		
Academic Career	Initial Academic Appointment	Institution	Year
		Universitas Negeri Yogyakarta	2008
Academic Background	1. Post Doctoral	-	-
	2. Doctoral Degree	-	-
	3. Master Degree	Institut Teknologi Surabaya	2007
	4. Undergraduate Degree	Universitas Negeri Yogyakarta	2005
Employment	Position	Employer	Period
	1. Tenaga Pengajar/CPNS	Universitas Negeri Yogyakarta	22/05/2008 - 11/03/2011
	2. Asisten Ahli Madya	Universitas Negeri Yogyakarta	
	3. Asisten Ahli	Universitas Negeri Yogyakarta	11/03/2011 - 01/12/2015
	4. Instructor (Lektor Muda)	Universitas Negeri Yogyakarta	
	5. Assistant Professor (Lektor)	Universitas Negeri Yogyakarta	01/12/2015 - sekarang
	6. Associate Professor (Lektor Kepala)	Universitas Negeri Yogyakarta	
Research and development projects over the last 5 years	1. DIPA UNY "Pemetaan Daerah Rawan Bencana Gempa di Daerah Istimewa Yogyakarta dengan Menggunakan Kombinasi dari Metode <i>Fuzzy Simple Additive Weighting</i> (FSAW) dan <i>Fuzzy C-Mean Clustering</i> (FCM)" Periode: 2019 Partner: Dr. Agus Maman Abadi; Musthofa, S.Si., M.Sc. Amount of financing: IDR 25.000.000,-		
	2. DIPA UNY "Analisa Penyelesaian <i>Traffic Flow Problem</i> dengan Model Persamaan Gelombang" Periode: 2016 Partner: Himmawati Puji Lestari, M.Si.; Drs. Tuharto, M.Si. Amount of financing: IDR 5.000.000,-		
	3. DIPA UNY "Algoritma Genetika Untuk optimalisasi Pariwisata di DIY" Periode: 2013 Partner: Husna Arifah, S.Si., M.Pd. Amount of financing: IDR		

Industry collaborations over the last 5 years	1. Project Title: WORKSHOP PEMODELAN MATEMATIKA BAGI GURU MATEMATIKA SMK SE-GUNUNGKIDUL (2019) Partners: MGMP SMK Gunungkidul	
	2. Project Title: Workshop Telaah Materi Kalkulus pada Buku Matematika BSE Kurikulum 2013 bagi Guru Matematika MA Se-DIY (2018) Partners: MGMP MA Yogyakarta	
	3. Project Title: Pelatihan Pengembangan Media Pembelajaran Matematika Berbasis Matematika Realistik di Sekolah Dasar Islam Terpadu (SDIT) Kabupaten Sleman dan Bantul (2017) Partners: SD IT KABUPATEN BANTUL DAN SLEMAN	
	4. Project Title: PELATIHAN PENGEMBANGAN KONTEKS ISLAMI UNTUK PEMBELAJARAN MATEMATIKA BERBASIS MATEMATIKA REALISTIK DI SEKOLAH DASAR ISLAM TERPADU (SDIT) KABUPATEN SLEMAN DAN BANTUL (2016) Partners: SD IT KABUPATEN BANTUL DAN SLEMAN	
	5. Project Title: PELATIHAN PENGGUNAAN Wingeon dan Winplot UNTUK MENGATASI KESULITAN GURU SEKOLAH MENENGAH DI DIY DALAM PENYUSUNAN BAHAN AJAR MATEMATIKA (2015) Partners: MGMP SMP DIY	
Patents and proprietary rights	Title	Year
	Patents: " Model Matematika Kemacetan Lalu Lintas Dengan Sistem Oleh: Hartono, Agus Maman Abadi, Fitriana Yuli Saptaningtyas, Kus Pri Hantoso Krisnawan No. Paten: EC00201854406	2018
Important publications over the last 5 years	Selected recent publications form a total of approx.:	
	1. Hartono, H. , Saptaningtyas, F. , & Krisnawan, K.P. (2018). Dynamical analysis of Lorenz System on traffic problem in Yogyakarta, Indonesia. Journal of Physics: Conference Series, 983(1), p. 012092 doi :10.1088/1742-6596/983/1/012092	
	2. Hartono, H. , Binatari, N., & Saptaningtyas, F. (2018). Regular Perturbation of Inviscid Burger Equation in a Traffic Flow Problem. Journal of Physics: Conference Series, 1097(1), p. 012090 doi :10.1088/1742-6596/1097/1/012090	
	3. Hartono, H., Abadi, A., Saptaningtyas, F. , & Binatari, N. (2018). LOCAL STABILITY OF JAMMING PROBLEM IN RING ROAD STATE YOGYAKARTA USING LORENTZ MODEL. Far East Journal of Applied Mathematics, 98(4), 245-259. http://dx.doi.org/10.17654/AM098040245	
	4. Saptaningtyas, F. , & Setyarsi, A.D. (2018). Finite Volume Method with Explicit Scheme Technique for Solving Heat Equation. Journal of Physics: Conference Series, 1097(1), p. 012089. doi :10.1088/1742-6596/1097/1/012089	
	5. A'yun, K., Abadi, A., & Saptaningtyas, F. (2015). Application of Weighted Fuzzy Time Series Model to Forecast Trans Jogja's Passengers. International Journal of Applied Physics and Mathematics, 5(2), 76-85. DOI: 10.17706/ijapm.2015.5.2.76-85.	
	6. Saptaningtyas, F. , & Ahmadi, A. (2018). Modify Variational Iteration Method for Solving Heat Equations. Proceeding of The 2nd International Seminar on Innovation in Mathematics and Mathematics Education 2018 (The 2nd ISIM-MED 2018), Universitas Negeri Yogyakarta, Indonesia, 20-24 November 2018.	

	<p>7. Hartono, H., Abadi, A., & Saptaningtyas, F. (2018). Modify Multistep Difference Transform Method for Solving Jamming Model in Lorentz System. Proceeding of The 2nd Borneo International Conference on Applied Mathematics and Engineering (BICAME), Institut Teknologi Kalimantan, Indonesia, 10-11 Desember 2018.</p>
	<p>8. Saptaningtyas, F., & Prihantini, P. (2017). Stability analysis model of Bacillus anthracis using SEIQR population compartment with quarantine in Indonesia. Proceeding of The 4th International Conference on Mathematics, Science, and Education (ICMSE 2017), Universitas Negeri Semarang, Indonesia, 18-19 September 2017.</p>

	Organization	Role	Period
Activities in specialist bodies over the last 5 years <i>(Membership without a specific role need not be mentioned)</i>			