



UNIVERSITAS NEGERI YOGYAKARTA

Faculty of Mathematics and Natural Sciences
Department of Mathematics Education

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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.	

	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.
	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.

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