



UNIVERSITAS NEGERI YOGYAKARTA
Graduate School Programme

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Master of Education in Mathematics

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STAFF HANDBOOK

Name	Agus Maman Abadi, S.Si., M.Si., Dr.		
Expertise	Applied Mathematics; Fuzzy Systems		
Academic Career	Initial Academic Appointment	Institution	Year
		Universitas Negeri Yogyakarta	1995
Academic Background	1. Post Doctoral	-	-
	2. Doctoral Degree	Universitas Gadjah Mada	2010
	3. Master Degree	Universitas Gadjah Mada	1998
	4. Undergraduate Degree	Universitas Gadjah Mada	1994
Employment	Position	Employer	Period
	1. Tenaga Pengajar/CPNS	Universitas Negeri Yogyakarta	01/02/1995 - 01/10/1996
	2. Asisten Ahli Madya	Universitas Negeri Yogyakarta	01/10/1996 - 01/01/2001
	3. Asisten Ahli	Universitas Negeri Yogyakarta	01/01/2001 - 01/07/2002
	4. Instructor (Lektor Muda)	Universitas Negeri Yogyakarta	01/07/2002 - 01/03/2013
	5. Assistant Professor (Lektor)	Universitas Negeri Yogyakarta	
Research and development projects over the last 5 years	6. Associate Professor (Lektor Kepala)	Universitas Negeri Yogyakarta	01/03/2013 - sekarang
	1. Hibah Fundamental Tahun II, Kemenristek-Dikti "Optimalisasi Model Neuro Fuzzy untuk Data Time Series dengan Metode Dekomposisi Nilai Singular" Periode: 2013 Tim Peneliti: Dr. Dhoriva Urwatul Wustqa, M.S. Amount of financing: IDR 45.000.000,-		
	2. DIPA MIPA "Studi Awal Penerapan Aljabar max Plus Pada Sistem Penyimpanan Terdistribusi (Distributed Storage System) Melalui Network Coding" Periode: 2014 Tim Peneliti: Dr. Karyati; Musthofa, M.Sc. Amount of financing: IDR 10.000.000,-		
	3. DIPA MIPA "Teknik Regenerating Code pada Penyimpanan Terdistribusi" Periode: 2015 Tim Peneliti: Dr. Karyati; Musthofa, M.Sc.; Drs. Emut, M.Si. Amount of financing: IDR 10.000.000,-		

	4. Hibah Bersaing Tahun I, Kemenristek-Dikti "Optimisasi Model Fuzzy Terbobot untuk Klasifikasi Data Polikotomus dan Penerapannya di Bidang Kesehatan" Periode: 2015 Tim Peneliti: Dr. Nurhayadi, M.Si. (Universitas Tadulako), Mustofa, M.Sc. Amount of financing: IDR 59.000.000,-
	5. Hibah Bersaing Tahun II, Kemenristek-Dikti "Optimisasi Model Fuzzy Terbobot untuk Klasifikasi Data Polikotomus dan Penerapannya di Bidang Kesehatan" Periode: 2016 Tim Peneliti: Dr. Nurhayadi, M.Si. (Universitas Tadulako), Mustofa, M.Sc. Amount of financing: IDR 50.000.000,-
	6. Hibah Fundamental, Kemenristek-Dikti "Optimisasi Model Radial Basis Function Neural Network dengan Metode Dekomposisi Nilai Singular Untuk Deteksi Stadium Kanker" Periode: 2017 Tim Peneliti: Dr. Dhoriva Urwatul Wustqa, M.S. Amount of financing: IDR 82.250.000,-
	7. Penelitian Kerjasama antar Perguruan Tinggi Tahun I, Kemenristek-Dikti "Pengembangan Buku Ajar Struktur Aljabar Berbasis Pendekatan Deduktif di Universitas Riau Kepulauan" Periode: 2018 Tim Peneliti: Dr. Ali Mahmudi, M.Pd. (TPM); Nina Agustyaningrum, M.Pd., Yudhi Hanggara, M.Pd., Asmaul Husna, M.Pd. (TPP) Amount of financing: IDR 90.000.000,-
	8. Penelitian Dasar Unggulan Perguruan Tinggi Tahun II, Kemenristek-Dikti "Optimisasi Model Radial Basis Function Neural Network dengan Metode Dekomposisi Nilai Singular Untuk Deteksi Stadium Kanker" Periode: 2018 Partner: Dr. Nurhayadi, M.Si. (Universitas Tadulako), Dr. Dhoriva Urwatul Wustqa, M.S. Amount of financing: IDR 90.000.000,-
	9. Penelitian Kerjasama antar Perguruan Tinggi Tahun II, Kemenristek-Dikti "Pengembangan Buku Ajar Struktur Aljabar Berbasis Pendekatan Deduktif di Universitas Riau Kepulauan" Periode: 2019 Tim Peneliti: Dr. Ali Mahmudi, M.Pd. (TPM); Nina Agustyaningrum, M.Pd., Yudhi Hanggara, M.Pd., Asmaul Husna, M.Pd. (TPP) Amount of financing: IDR 95.391.000,-
	10. Penelitian Dasar Tahun I, Kemenristek-Dikti "Pengembangan Wavelet-Fuzzy System untuk Diagnosis Penyakit Jantung Berdasarkan Sinyal Phonocardiogram" Periode: 2019 Tim Peneliti: Drs. Sumarna, M.Si., M.Eng. Amount of financing: IDR 63.777.000,-
Industry collaborations over the last 5 years	1. Project Title: Workshop Kemampuan Pemecahan Masalah Topik Aljabar Bagi Guru SMP di Kabupaten Sleman Yogyakarta (2013) Mitra: MGMP Matematika SMP Kabupaten Sleman
	2. Project Title: Training of Trainer (TOT) Olimpiade Matematika Tingkat Sekolah Menengah Atas Untuk Guru-guru Sekolah Menengah Atas di Kabupaten Bantul (2014) Mitra: MGMP Matematika SMA Kabupaten Bantul

	3. Project Title: Pendalaman Materi Olimpiade Matematika SMP Bidang Kapita Selekt Aljabar dan Teori Bilangan Bagi Guru-guru Matematika SMP di Kabupaten Gunung Kidul (2015) Mitra: MGMP Matematika SMP Kabupaten Gunungkidul	
	4. Project Title: Pendalaman Materi Aljabar dan Geometri untuk Guru-Guru SMP dengan Memanfaatkan Perangkat Lunak Geogebra (2016) Mitra: MGMP Matematika SMP Kabupaten Gunungkidul	
	5. Project Title: Pelatihan Geogebra Tiga Dimensi bagi Guru Matematika SMP untuk Meningkatkan Kualitas Pembelajaran pada Materi Geometri (2017) Mitra: MGMP Matematika SMP Kabupaten Kulonprogo	
	6. Project Title: Workshop Penyusunan LKS Matematika SMP dengan Memanfaatkan Geogebra untuk Meningkatkan Kualitas Pembelajaran (2018) Mitra: MGMP Matematika SMP Kab. Klaten	
	7. Project Title: Workshop Penyusunan Soal Aljabar dan Geometri Tipe HOTS (Higher-order Thinking Skills) untuk Guru Matematika SMP (2019) Mitra: MGMP Matematika SMP Kab. Klaten	
Patents and proprietary rights	Title	Year
	1. Patents: " Model Matematika Kemacetan Lalu Lintas dengan Sistem Lorentz " Atas nama: Hartono, Agus Maman Abadi , Fitriana Yuli Saptanningtyas, Kus Prihantoso Krisnawan No. Paten: 000124764	2018
Important publications over the last 5 years	Selected recent publications form a total of approx.:	
	1. Abadi, A. , & Wutsqa, D. (2014). OPTIMIZATION OF NEURO FUZZY MODEL FOR DATA TIME SERIES WITH SINGULAR VALUE DECOMPOSITION METHOD . Jurnal Penelitian Saintek, 18(1). doi: https://doi.org/10.21831/jps.v18i1.1836	
	2. Nurhayadi, N., Subanar, S., Abdurakhman, A., & Abadi, A. (2014). Fuzzy model optimization for time series data using a translation in the extent of mean error . Journal of Mathematics and Statistics, 10(2), 267-274. DOI: 10.3844/jmssp.2014.267.274	
	3. Nurhayadi, N., Subanar, S., Abdurakhman, A., & Abadi, A. (2014). Fuzzy model translation for time series data in the extent of median error and its application . Applied Mathematical Sciences, 8(43), 2113 - 2124 http://dx.doi.org/10.12988/ams.2014.42114	
	4. Abadi, A. , Musthofa, M., & Emut, E. (2016). PRELIMINARY STUDY ON APPLICATION OF MAX PLUS ALGEBRA IN DISTRIBUTED STORAGE SYSTEM THROUGH NETWORK CODING . Jurnal Sains Dasar, 4(1). doi: https://doi.org/10.21831/jsd.v4i1.8420	
	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. Abadi, A. , Karyati, K., Musthofa, M., & Emut, E. (2016). REGENERATING CODETECHNIQUE IN DISTRIBUTED STORAGE . Jurnal Sains Dasar, 5(1), 57 - 61. doi: https://doi.org/10.21831/jsd.v5i1.12669	
	7. Septiarini, T.W., Abadi, A. , Taufik, M. (2016). Application of Wavelet Fuzzy Model to Forecast the Exchange Rate IDR of USD . International Journal of Modeling and Optimization, 6(1), 66-70. DOI: 10.7763/IJMO.2016.V6.505.	

	8. A'yun, K., & Abadi, A. (2016). Optimization of fuzzy system using point operation intensity adjustment for diagnosing breast cancer. Journal of Innovative Technology and Education. 3(1), 159-168. DOI: 10.12988/jite.2016.6830.		
	9. Abadi, A. , Nurhayadi, N., & Musthofa, M. (2016). A new method to analyze bank performance level in indonesia using fuzzy model. International Mathematical Forum, 11(24), 1191-1206. DOI: https://doi.org/10.12988/imf.2016.611143		
	10. Zen, H.N.H., Trimartanti, L.W., Abidin, Z., & Abadi, A. (2017). Determining hydrocarbon prospective zone using the combination of qualitative analysis and fuzzy logic method. Journal of Systems Science and Systems Engineering, 26(4), 463-474. DOI: DOI: 10.1007/s11518-017-5348-2		
	11. Abadi, A. , Nurhayadi, N., Musthofa, M., & Triyanti, T. (2018). Optimization of fuzzy model using singular value decomposition and its application for diagnosing cervical cancer. Far East Journal of Mathematical Sciences (FJMS), 103(10), 1679-1699. DOI: 10.17654/MS103101679.		
	12. Abadi, A. , Nurhayadi, N., & Musthofa, M. (2017). Optimization of wavelet weighted fuzzy model for time series data and its application to forecast Jakarta Composite Index. Journal of Engineering and Applied Sciences, 12, 5672-5678. DOI: 10.3923/jeasci.2017.5672.5678		
	13. Hartono, H., Abadi, A. , Saptaningtyas, F.Y., & 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		
	14. Abadi, A. (2019). Diagnosis of Brain Cancer Using Radial Basis Function Neural Network With Singular Value Decomposition Method. International Journal of Machine Learning and Computing (Akan segera terbit tahun 2019)		
Activities in specialist bodies over the last 5 years (<i>Membership without a specific role need not be mentioned</i>)	Organization	Role	Period