



## UNIVERSITAS NEGERI YOGYAKARTA

Faculty of Mathematics and Natural Sciences  
Department of Mathematics Education

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### Bachelor of Science in Mathematics

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### STAFF HANDBOOK

Name	<b>Musthofa, S.Si., M.Sc.</b>		
Expertise	Algebra		
Academic Career	Initial Academic Appointment	<b>Institution</b>	<b>Year</b>
		Universitas Negeri Yogyakarta	2012
Academic Background	1. Post Doctoral	-	-
	2. Doctoral Degree	-	-
	3. Master Degree	Universitas Gadjah Mada	2011
	4. Undergraduate Degree	Universitas Gadjah Mada	2005
Employment	<b>Position</b>	<b>Employer</b>	<b>Period</b>
	1. Tenaga Pengajar/CPNS	Universitas Negeri Yogyakarta	01/04/2006 - 30/06/2008
	2. Asisten Ahli Madya	Universitas Negeri Yogyakarta	
	3. Asisten Ahli	Universitas Negeri Yogyakarta	30/06/2008 - 31/05/2017
	4. Instructor (Lektor Muda)	Universitas Negeri Yogyakarta	
	5. Assistant Professor (Lektor)	Universitas Negeri Yogyakarta	31/05/2017 - sekarang
	6. Associate Professor (Lektor Kepala)	Universitas Negeri Yogyakarta	
Research and development projects over the last 5 years	1. DIPA FMIPA UNY "Konstruksi Barisan Biner De Bruijn Dengan Perpaduan Greedy Algorithm Dan Sifat-Sifat Grup" Periode: 2019 Partner: Dr. Agus Maman Abadi; Dr. Karyati Amount of financing: IDR 18.000.000,-		
	2. DIPA FMIPA UNY "Grup Permutasi pada Teknologi Penyimpanan Berbasis DNA" Periode: 2017 Partner: Dr. Agus Maman Abadi; Dr. Karyati Amount of financing: IDR 10.000.000,-		
	3. DIPA FMIPA UNY "Analisis Reed Solomon Code pada Teknologi Kode QR" Periode: 2016 Partner: Dr. Agus Maman Abadi; Dr. Karyati Amount of financing: IDR 10.000.000,-		
Industry collaborations over the last 5 years	1. Project Title: Workshop Penyusunan Soal Aljabar dan Geometri Tipe HOTS (Higher-order Thinking Skills) untuk Guru Matematika SMP (2019) Mitra: <b>MGMP Matematika SMP Kab. Klaten</b>		

	<p>2. Project Title: Workshop Penyusunan LKS Matematika SMP dengan Memanfaatkan Geogebra untuk Meningkatkan Kualitas Pembelajaran (2018) Mitra: <b>MGMP Matematika SMP Kab. Klaten</b></p>		
	<p>3. Project Title: Pelatihan Geogebra Tiga Dimensi bagi Guru Matematika SMP untuk Meningkatkan Kualitas Pembelajaran pada Materi Geometri (2017) Mitra: <b>MGMP Matematika SMP Kab. Kulon Progo</b></p>		
	<p>4. Project Title: Meningkatkan Pemahaman Materi Sulit Matematika Siswa Smp Melalui Pelatihan Penyusunan Bahan Ajar Dengan Memanfaatkan Perangkat Lunak Geogebra (2017) Mitra: <b>MGMP Matematika SMP Kab. Kulon Progo</b></p>		
	<p>5. Project Title: Pengayaan Materi dan Pelatihan Soal-Soal Olimpiade Matematika Menggunakan Metode Trik dan Tips bagi Siswa dan Guru Sekolah Menengah Atas (SMA) (2016) Mitra: <b>MGMP Matematika SMA Kab. Bantul</b></p>		
Patents and proprietary rights	<b>Title</b>		<b>Year</b>
Important publications over the last 5 years	<b>Selected recent publications form a total of approx.:</b>		
	<p>1. Abadi, A., Nurhayadi, N., <a href="#">Musthofa, M.</a>, &amp; Triyanti, T. (2018). <b>Optimization of fuzzy model using singular value decomposition and its application for diagnosing cervical cancer</b>. Far East Journal of Mathematical Sciences (FJMS), 103(10), 1679-1699. DOI: 10.17654/MS103101679.</p>		
	<p>2. Abadi, A., Nurhayadi, N., &amp; <a href="#">Musthofa, M.</a> (2017). <b>Optimization of wavelet weighted fuzzy model for time series data and its application to forecast Jakarta Composite Index</b>. Journal of Engineering and Applied Sciences, 12, 5672-5678. DOI: 10.3923/jeasci.2017.5672.5678</p>		
	<p>3. Abadi, A., Nurhayadi, N., &amp; <a href="#">Mustofa, M.</a> (2016). <b>A New Method to Analyze Bank Performance Level in Indonesia Using Fuzzy Model</b>. International Mathematical Forum, 11(21), 1191–1206. DOI: <a href="https://doi.org/10.12988/imf.2016.611143">https://doi.org/10.12988/imf.2016.611143</a></p>		
	<p>4. Abadi, A., Karyati, K., <a href="#">Musthofa, M.</a>, &amp; Emut, E. (2016). <b>REGENERATING CODETECHNIQUE IN DISTRIBUTED STORAGE</b>. Jurnal Sains Dasar, 5(1), 57 - 61. doi:<a href="https://doi.org/10.21831/jsd.v5i1.12669">https://doi.org/10.21831/jsd.v5i1.12669</a></p>		
	<p>5. Abadi, A., <a href="#">Musthofa, M.</a>, &amp; Emut, E. (2016). <b>PRELIMINARY STUDY ON APPLICATION OF MAX PLUS ALGEBRA IN DISTRIBUTED STORAGE SYSTEM THROUGH NETWORK CODING</b>. Jurnal Sains Dasar, 4(1). doi:<a href="https://doi.org/10.21831/jsd.v4i1.8420">https://doi.org/10.21831/jsd.v4i1.8420</a></p>		
	<p>6. <a href="#">Musthofa, M.</a>, &amp; Lestari, D. (2015). <b>The password agreement method based on matrix operation over Min-Plus algebra for safety of secret information sending</b>. Jurnal Sains Dasar, 3(1). doi:<a href="https://doi.org/10.21831/jsd.v3i1.2782">https://doi.org/10.21831/jsd.v3i1.2782</a></p>		
	<p>7. Musthofa, M., &amp; <a href="#">Binatari, N.</a> (2014). <b>Sifat-sifat Nilai Eigen dan Vektor Eigen Matriks atas Aljabar Maxplus</b>. Jurnal Sains Dasar, 2(1), 25-31. doi:<a href="https://doi.org/10.21831/jsd.v2i1.2375">https://doi.org/10.21831/jsd.v2i1.2375</a></p>		
Activities in specialist bodies over the last 5 years (Membership without a specific role need not be mentioned)	<b>Organization</b>	<b>Role</b>	<b>Period</b>