



**UNIVERSITAS NEGERI YOGYAKARTA**  
Graduate School Programme

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**Master of Education in Mathematics**

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**STAFF HANDBOOK**

Name	<b>Dhoriva Urwatul Wustqa, M.S., Dr.</b>		
Expertise	Statistics; Neural Networks		
Academic Career	Initial Academic Appointment	<b>Institution</b>	<b>Year</b>
		Universitas Negeri Yogyakarta	1993
Academic Background	1. Post Doctoral	-	-
	2. Doctoral Degree	Universitas Gadjah Mada	2008
	3. Master Degree	Institut Teknologi Bandung	1992
	4. Undergraduate Degree	Universitas Gadjah Mada	1989
Employment	<b>Position</b>	<b>Employer</b>	<b>Period</b>
	1. Tenaga Pengajar/CPNS	Universitas Negeri Yogyakarta	01/03/1993 - 01/02/1995
	2. Asisten Ahli Madya	Universitas Negeri Yogyakarta	01/02/1995 - 01/11/1999
	3. Asisten Ahli	Universitas Negeri Yogyakarta	01/11/1999 - 01/06/2003
	4. Instructor (Lektor Muda)	Universitas Negeri Yogyakarta	
	5. Assistant Professor (Lektor)	Universitas Negeri Yogyakarta	01/06/2003 - 01/01/2011
	6. Associate Professor (Lektor Kepala)	Universitas Negeri Yogyakarta	01/01/2011 - sekarang
Research and development projects over the last 5 years	1. Hibah Bersaing tahun I, Kemenristekdikti "Mengkonstruksi Program Terpakai Metode Simpleks Fuzzy Menggunakan A Mathematical Programming Language untuk Menyelesaikan Masalah Pemrograman Linear Fuzzy dan Aplikasinya pada Bidang Ekonomi" Periode: 2014 Partner: Dr. Karyati S.Si, M.Si.; Nur Insani, S.Si., M.Sc. Amount of financing: IDR 48.000.000,-		
	2. Research Group "Pengaruh Preprocessing Citra Koloskopi pada Keakuratan Deteksi Stadium Kanker Serviks dengan model Radial Basis Function Neural Network (RBFNN) Fuzzy C-means Clustering" Periode: 2015 Partner: Rosita Kusumawati, S.Si., M.Sc.; Retno Subekti, S.Si., M.Sc. Amount of financing: IDR 10.000.000,-		

	<p>3. Hibah Bersaing tahun II, Kemenristekdikti  "Mengkonstruksi Program Terpakai Metode Simpleks Fuzzy Menggunakan A Mathematical Programming Language untuk Menyelesaikan Masalah Pemrograman Linear Fuzzy dan Aplikasinya pada Bidang Ekonomi"  Periode: 2015  Partner: Dr. Karyati S.Si, M.Si.; Nur Insani, S.Si., M.Sc.  Amount of financing: IDR 55.000.000,-</p>
	<p>4. Hibah Bersaing tahun III, Kemenristekdikti  "Mengkonstruksi Program Terpakai Metode Simpleks Fuzzy Menggunakan A Mathematical Programming Language untuk Menyelesaikan Masalah Pemrograman Linear Fuzzy dan Aplikasinya pada Bidang Ekonomi"  Periode: 2016  Partner: Dr. Karyati S.Si, M.Si.; Nur Insani, S.Si., M.Sc.  Amount of financing: IDR 50.000.000,-</p>
	<p>5. Penelitian Terapan Tahun I, Kemenristekdikti  "Menyelesaikan Masalah Pemrograman Linear Fuzzy Dengan Pendektan Pemrograman Linear Interval Dan Aplikasinya Pada Bidang Ekonomi "  Periode: 2017  Partner: Dr. Karyati S.Si, M.Si.; Nikenasih Binatari, S.Si., M.Si.  Amount of financing: IDR 75.000.000,-</p>
	<p>6. Penelitian Terapan Tahun II, Kemenristekdikti  "Menyelesaikan Masalah Pemrograman Linear Fuzzy Dengan Pendektan Pemrograman Linear Interval Dan Aplikasinya Pada Bidang Ekonomi "  Periode: 2018  Partner: Dr. Karyati S.Si, M.Si.; Nikenasih Binatari, S.Si., M.Si.  Amount of financing: IDR 70.000.000,-</p>
	<p>7. Penelitian Terapan Tahun III, Kemenristekdikti  "Menyelesaikan Masalah Pemrograman Linear Fuzzy Dengan Pendektan Pemrograman Linear Interval Dan Aplikasinya Pada Bidang Ekonomi "  Periode: 2019  Partner: Dr. Karyati S.Si, M.Si.; Nikenasih Binatari, S.Si., M.Si.  Amount of financing: IDR 93.000.000,-</p>
	<p>8. Penelitian Tesis, Kemenristekdikti  "Keefektifan metode pembelajaran pendekatan kontekstual dengan strategi the power of two ditinjau dari kemampuan koneksi, kemandirian belajar, dan hasil belajar matematika siswa SMP"  Periode: 2019  Partner: Dr. Jailani, M.Pd.  Amount of financing: IDR 56.400.000,-</p>
	<p>9. Penelitian Tesis, Kemenristekdikti  "Pembentukan Metode Klustering pada data Hybrid Crisp-Fuzzy dan Penerapannya pada Pemetaan Daerah Bencana di Indonesia"  Periode: 2019  Partner: Dr. Sri Andayani, M.Kom.; Kismiantini, Ph.D.  Amount of financing: IDR 69.300.000,-</p>
Industry collaborations over the last 5 years	<p>1. Project Title: Interviewer Beasiswa S2/S3 (2015 - 2018)  Partners: <b>LPDP</b></p>
	<p>2. Project Title: Workshop Penyusunan Perangkat Pembelajaran Matematika Sekolah Menengah Berbasis Budaya Lokal (2015)  Partners: <b>PPs UNY</b></p>
	<p>3. Project Title: Workshop Program R untuk Analisis Data Statistika (2015)  Partners: <b>FMIPA UNY</b></p>

	4. Project Title: Workshop Penyusunan Perangkat Pembelajaran Matematika Sekolah Menengah Pertama Berbasis Budaya Jawa di Yogyakarta (2016) Partners: <b>PPs UNY</b>				
	5. Project Title: Workshop Program R untuk Analisa Data Statistika Nonparametrik (2016)  Partners: <b>FMIPA UNY</b>				
	6. Project Title: Workshop Program R untuk Analisa Data Multivariat (2017) Partners: <b>FMIPA UNY</b>				
	7. Project Title: Workshop Diagnostik dan Remedial pada Analisis Regresi (2018) Partners: <b>DIPA UNY</b>				
	8. Project Title: Workshop Analisis Variansi dengan R (2018) Partners: <b>Universitas Sarjanawiyata Tamansiswa</b>				
	9. Project Title: Workshop Analisis Faktor untuk Dana Penelitian Ilmu Sosial dan Kependidikan (2019) Partners: <b>PPM Kelompok Dosen</b>				
Patents and proprietary rights	<table border="1"> <thead> <tr> <th>Title</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> </tbody> </table>	Title	Year		
Title	Year				
Important publications over the last 5 years	<p style="text-align: center;"><b>Selected recent publications form a total of approx.:</b></p> <ol style="list-style-type: none"> <li>Abadi, A., &amp; <a href="#">Wutsqa, D.</a> (2014). <b>OPTIMIZATION OF NEURO FUZZY MODEL FOR DATA TIME SERIES WITH SINGULAR VALUE DECOMPOSITION METHOD</b>. Jurnal Penelitian Saintek, 18(1). doi:<a href="https://doi.org/10.21831/jps.v18i1.1836">https://doi.org/10.21831/jps.v18i1.1836</a></li> <li><a href="#">Wutsqa, D.</a>, Subekti, R., &amp; Kusumawati, R. (2016). <b>Radial basis function neural network for views prediction on Black-Litterman model</b>. <i>Journal of Innovative Technology and Education</i>, 3(1), 71-78. DOI: <a href="http://dx.doi.org/10.12988/jite.2016.6721">http://dx.doi.org/10.12988/jite.2016.6721</a></li> <li>Karyati, K., <a href="#">Wutsqa, D.</a>, &amp; Insani, N. (2016). <b>The trapezoidal fuzzy number linear programming</b>. <i>Journal of Innovative Technology and Education</i>, 3(1), 123-130. DOI: <a href="http://dx.doi.org/10.12988/jite.2016.6825">http://dx.doi.org/10.12988/jite.2016.6825</a></li> <li><a href="#">Wutsqa, D.</a>, &amp; Setiadi, R.P. (2017). <b>Point Operation to Enhance the Performance of Fuzzy Neural Network Model for Breast Cancer Classification</b>. <i>Journal of Engineering and Applied Sciences</i>, 12(17), 4405-4410. DOI: 10.3923/jeasci.2017.4405.4410 URL: <a href="http://medwelljournals.com/abstract/?doi=jeasci.2017.4405.4410">http://medwelljournals.com/abstract/?doi=jeasci.2017.4405.4410</a></li> <li><a href="#">Wutsqa, D.U.</a>, &amp; Marwah, M. (2017). <b>Median Filter Noise Reduction of Image and Backpropagation Neural Network Model for Cervical Cancer Classification</b>. <i>Journal of Physics: Conference Series</i>, 855(1), p.012062. doi:10.1088/1742-6596/855/1/012062</li> <li>Abadi, A.M., <a href="#">Wutsqa, D.U.</a>, &amp; Pamungkas, L.R. (2017). <b>Detection of lung cancer using radiograph images enhancement and radial basis function classifier</b>. 2017 10th International Congress on Image and Signal Processing, BioMedical Engineering and Informatics (CISP-BMEI), Shanghai, pp. 1-6. DOI: 10.1109/CISP-BMEI.2017.8302052</li> <li><a href="#">Wutsqa, D.U.</a>, &amp; Mandadara, H.L.R. (2017). <b>Lung cancer classification using radial basis function neural network model with point operation</b>. 2017 10th International Congress on Image and Signal Processing, BioMedical Engineering and Informatics (CISP-BMEI), Shanghai, pp. 1-6. DOI: 10.1109/CISP-BMEI.2017.8302285</li> </ol>				

	8. Karyati, K., <a href="#">Wutsqa, D.</a> , & Insani, N. (2018). <b>Yager's ranking method for solving the trapezoidal fuzzy number linear programming</b> . Journal of Physics: Conference Series, 983(1), p.012135. doi :10.1088/1742-6596/983/1/012135		
	9. Azizah, N., A'yun, K., Septiarini, T.W., <a href="#">Wutsqa, D.U.</a> , & Abadi, A.M. (2018). <b>Optimization of fuzzy inference system by using table look-up method to predict white sugar price in the international market</b> . Journal of Physics: Conference Series, 1097(1), p.012074. doi :10.1088/1742-6596/1097/1/012074		
	10. Sari, M.P., & <a href="#">Wutsqa, D.</a> (2018). <b>Can the problem-based learning model affect students' mathematical literacy ability and emotional intelligence?</b> Journal of Physics: Conference Series, 1097(1), p.012125. DOI: 10.1088/1742-6596/1097/1/012125 URL: <a href="https://iopscience.iop.org/article/10.1088/1742-6596/1097/1/012125/pdf">https://iopscience.iop.org/article/10.1088/1742-6596/1097/1/012125/pdf</a>		
	11. Dien, C.A., & <a href="#">Wutsqa, D.</a> (2018). <b>The Interpersonal Intelligence Profile of Seventh-Grade Students in Mathematics Learning</b> . Journal of Physics: Conference Series, 1108(1), p.012080. DOI: 10.1088/1742-6596/1108/1/012080 URL: <a href="https://iopscience.iop.org/article/10.1088/1742-6596/1108/1/012080/pdf">https://iopscience.iop.org/article/10.1088/1742-6596/1108/1/012080/pdf</a>		
Activities in specialist bodies over the last 5 years ( <i>Membership without a specific role need not be mentioned</i> )	<b>Organization</b>	<b>Role</b>	<b>Period</b>