



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	Eminugroho Ratna Sari, S.Si., M.Sc.		
Expertise	Applied Mathematics		
Academic Career	Initial Academic Appointment	Institution	Year
		Universitas Negeri Yogyakarta	2009
Academic Background	1. Post Doctoral	-	-
	2. Doctoral Degree	-	-
	3. Master Degree	Universitas Gadjah Mada	2009
	4. Undergraduate Degree	Universitas Gadjah Mada	2007
Employment	Position	Employer	Period
	1. Tenaga Pengajar/CPNS	Universitas Negeri Yogyakarta	01/12/2009 - 01/03/2012
	2. Asisten Ahli Madya	Universitas Negeri Yogyakarta	
	3. Asisten Ahli	Universitas Negeri Yogyakarta	01/03/2012 - 01/01/2016
	4. Instructor (Lektor Muda)	Universitas Negeri Yogyakarta	
	5. Assistant Professor (Lektor)	Universitas Negeri Yogyakarta	01/01/2016 - sekarang
6. Associate Professor (Lektor Kepala)	Universitas Negeri Yogyakarta		
Research and development projects over the last 5 years	1. DIPA UNY "Perilaku Dinamik dan Interpretasi Biologi: Model Matematika Pertumbuhan Sel Kanker dengan Kemoterapi" Periode: 2018 Partner: Evy Yulianti, M.Sc.; Dwi Lestari, M.Sc.; Retno Subekti, M.Sc. Amount of financing: IDR 25.000.000,-		
	2. DIPA FMIPA UNY "Analisa Penyebaran Demam Berdarah Dengue Melalui Model Host-Vector Tanpa Imunitas" Periode: 2015 Partner: Nikenasih Binatari, M.Si. Amount of financing: IDR 5.000.000,-		
Industry collaborations over the last 5 years	1. Project Title: PKM Pelatihan Geogebra Kelompok MGMP Matematika SMP di Kabupaten Sleman dan Bantul Daerah Istimewa Yogyakarta (2019) Partners: MGMP Matematika SMP Kabupaten Sleman dan Bantul DIY		
	2. Project Title: Workshop Penyusunan Soal Aljabar dan Geometri Tipe HOTS (Higher-Order Thinking Skills) untuk Guru Matematika SMP (2019) Partners: MGMP Matematika SMP Kabupaten Klaten		

	3. Project Title: Workshop Penyusunan LKS Matematika SMP dengan Memanfaatkan Geogebra untuk Meningkatkan Kualitas Pembelajaran (2018) Partners: MGMP Matematika SMP Kabupaten Klaten										
	4. Project Title: Pelatihan Penyusunan LKS Berbantuan Geogebra untuk Pengembangan Kemampuan Pemecahan Masalah (2017) Partners: MGMP Matematika SMK Kabupaten Gunungkidul										
	5. Project Title: Pelatihan Geogebra 2D dan 3D untuk Meningkatkan Kemampuan Teknologi Informasi Guru di DIY dalam Pembelajaran Matematika (2016) Partners: MGMP Matematika SMK Kabupaten Gunungkidul										
	6. Project Title: Peningkatan Kreativitas Guru Sekolah Menengah dalam Pembelajaran Matematika Melalui Pelatihan Geogebra (2015) Partners: Guru SMA DIY										
	7. Project Title: Pelatihan Penggunaan Geogebra Bagi Guru SMP/MTs di Daerah Istimewa Yogyakarta Guna Menunjang Pembelajaran Matematika (2014) Partners: Guru SMP/MTs di Daerah Istimewa Yogyakarta										
Patents and proprietary rights	<table border="1"> <thead> <tr> <th>Title</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1. Published book: "<i>Stability Analysis of Dengue Disease Using Host-Vector Model (a chapter in Recent Advances in Mathematical Sciences)</i>" https://doi.org/10.1007/978-981-10-0519-0 Oleh: Eminugroho Ratna Sari Springer, Singapore ISBN: 978-981-10-0517-6 (p-ISBN), 978-981-10-0519-0 (e-ISBN)</td> <td>2016</td> </tr> <tr> <td>2. Published book: "<i>Fungsi Peubah Kompleks dan Visualisasinya dengan Geogebra 2D dan 3D</i>" Oleh: Atmini Dhoruri; Eminugroho Ratnasari; Dwi Lestari UNY Press, Yogyakarta ISBN: 978-602-6338-94-5</td> <td>2017</td> </tr> <tr> <td>3. Patents: "<i>Panduan Penyusunan Portofolio Keuangan Menggunakan Integrasi Metode Clustering Dan Model Black Litterman Dengan Bantuan Matlab</i>" Oleh: Retno Subekti; Eminugroho Ratnasari; Rosita Kusumawati; Ahmad Muhsin M. No. Paten: 000128947</td> <td>2018</td> </tr> <tr> <td>4. Patents: "<i>Panduan Pemrograman Pemanfaatan Ant Colony Untuk Clustering Dalam Pembentukan Portofolio Keuangan</i>" Oleh: Retno Subekti; Eminugroho Ratnasari; Rosita Kusumawati No. Paten: 000128946</td> <td>2018</td> </tr> </tbody> </table>	Title	Year	1. Published book: " <i>Stability Analysis of Dengue Disease Using Host-Vector Model (a chapter in Recent Advances in Mathematical Sciences)</i> " https://doi.org/10.1007/978-981-10-0519-0 Oleh: Eminugroho Ratna Sari Springer, Singapore ISBN: 978-981-10-0517-6 (p-ISBN), 978-981-10-0519-0 (e-ISBN)	2016	2. Published book: " <i>Fungsi Peubah Kompleks dan Visualisasinya dengan Geogebra 2D dan 3D</i> " Oleh: Atmini Dhoruri; Eminugroho Ratnasari ; Dwi Lestari UNY Press, Yogyakarta ISBN: 978-602-6338-94-5	2017	3. Patents: " <i>Panduan Penyusunan Portofolio Keuangan Menggunakan Integrasi Metode Clustering Dan Model Black Litterman Dengan Bantuan Matlab</i> " Oleh: Retno Subekti; Eminugroho Ratnasari ; Rosita Kusumawati; Ahmad Muhsin M. No. Paten: 000128947	2018	4. Patents: " <i>Panduan Pemrograman Pemanfaatan Ant Colony Untuk Clustering Dalam Pembentukan Portofolio Keuangan</i> " Oleh: Retno Subekti; Eminugroho Ratnasari ; Rosita Kusumawati No. Paten: 000128946	2018
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Important publications over the last 5 years	<p>Selected recent publications form a total of approx.:</p> <ol style="list-style-type: none"> Subekti, R., Sari, E.R., & Kusumawati, R. (2018). Ant Colony Algorithm For Clustering In Portofolio Optimization. Journal of Physics Conference Series 983(1):012096. DOI: 10.1088/1742-6596/983/1/012096 Sari, E.R., Lestari, D., Yulianti, E., & Subekti, R. (2018). Stability Analysis of a Mathematical Model of Tumor With Chemotherapy. Proceeding of 5th International International Conference on Mathematics, Science, and Education (ICMSE), Harris Hotel & Residences Sunset Road-Bali, 08-09 Oktober 2018. Dhoruri, A., Lestari, D., & Sari, E.R. (2017). Sensitivity Analysis of Goal Programming Model for Dietary Menu of Diabetes Mellitus Patients. International Journal of Modeling and Optimization (IJMO), 7(1), 7-12. DOI: 10.7763/IJMO.2017.V7.549 										

	4. Sari, E.R. , Insani, N., & Lestari, D. (2017). The Preventive Control of a Dengue Disease Using Pontryagin Minimum Principal . Journal of Physics Conference Series, 855(1):012045. DOI: 10.1088/1742-6596/855/1/012045
	5. Dhoruri, A., Lestari, D., & Sari, E.R. (2017). Menu Variations for Diabetes Mellitus Patients Using Goal Programming Model . AIP Conference Proceedings, 1867(1):020015. DOI: http://dx.doi.org/10.1063/1.4994418
	6. Dhoruri, A., Lestari, D., & Sari, E.R. (2015). Dietary Planning for Diabetes Mellitus Patients Using Goal Programming Approach . Proceeding of Its Applications, and Mathematics Education (ICMAME) Sanata Dharma University, 14-15 September 2015.
	7. Sari, R. , & Lestari, D. (2014). OPTIMIZATION OF TRANSPORT SYSTEM IN YOGYAKARTA CITY WITH VEHICLE ROUTING PROBLEM MODEL USING ALGORITHM SEQUENTIAL INSERTION . Jurnal Penelitian Saintek, 19(1). doi: https://doi.org/10.21831/jps.v19i1.2324

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