



UNIVERSITAS ISLAM NEGERI MAULANA MALIK IBRAHIM MALANG

Faculty of Science and Technology

Mathematics Study Program

Jl. Gajayana No. 50 Malang 65144 Phone/ Fax (+62341) 558933

Website: <http://matematika.uin-malang.ac.id>, e-mail: [matematika@uin-malang.ac.id](mailto:matematika@uin-malang.ac.id)

**STAFF HANDBOOK**

Name	Ari Kusumastuti, M.Pd, M.Si		
Post	Major: Applied Mathematics		
Academic Career		Institution	Year
	Initial Academic Appointment	Universitas Islam Negeri Maulana Malik Ibrahim	
	Post Doctoral	-	-
	Doctoral Degree	Institut Teknologi Sepuluh Nopember (ITS), Indonesia	ongoing
	Master Degree	Universitas Brawijaya (UB), Indonesia	
		Universitas Negeri Malang (UM), Indonesia	
Undergraduate Degree	Universitas Brawijaya (UB), Indonesia		
Employment	Position	Employer	Period
	Instructor	Universitas Islam Negeri Maulana Malik Ibrahim	
	Assistant Professor	Universitas Islam Negeri Maulana Malik Ibrahim	
	Associate Professor	-	-
	Full Professor	-	-
Research and development projects over the last 5 years	1. Funder: UIN Maulana Malik Ibrahim Malang research grant ( <i>Penelitian Dasar Program Studi</i> ) Title: <i>Pemodelan dan Simulasi Perambatan Suara di Interior Masjid Berkubah</i> Period: 2021 Amount of financing: IDR 20,000,000		
	2. Funder: UIN Maulana Malik Ibrahim Malang research grant ( <i>Penulisan dan Penerbitan Buku berbasis Riset dan e-Book</i> ) Title: <i>Pemodelan Matematika dalam Perspektif Praktik</i> Period: 2022 Amount of financing: IDR 20,000,000		
	3. Funder: UIN Maulana Malik Ibrahim Malang research grant ( <i>Penerbitan Buku Ajar</i> ) Title: <i>Persamaan diferensial Parsial Numerik</i> Period: 2023 Amount of financing: IDR 20,000,000		
Industry collaborations over the last 5 years	Project title: - Partners: -		
Patents and proprietary rights	Title	Year	
	-	-	

Important publications over the last 5 years	<p>Karisma, R. D. L. N., Arinda, T. S., Widayani, H., &amp; <b>Kusumastuti, A.</b> (2023). Clustering of COVID-19 Provinces in Indonesia Using Fuzzy Means Cluster Methods. Proceedings of the 12th International Conference on Green Technology (ICGT 2022), 394–406. <a href="https://doi.org/10.2991/978-94-6463-148-7_39">https://doi.org/10.2991/978-94-6463-148-7_39</a></p>		
	<p><b>Kusumastuti, A.</b>, Jamhuri, M., Firdaus, D., &amp; Hidayati, N. A. (2023). The Construction of Mathematical Model for the Mechanism of Protein Synthesis Involving mTORC1 from the AMPK Pathway. IJCSAM (International Journal of Computing Science and Applied Mathematics), 9(1), 21–26. <a href="https://doi.org/10.12962/j24775401.v9i1.14351">https://doi.org/10.12962/j24775401.v9i1.14351</a></p>		
	<p>Hidayati, I. S., <b>Kusumastuti, A.</b>, &amp; Widayani, H. (2023). The Dynamic Analysis of the COVID-19 Spread Model in the SIHCR Population with Time Delay. Proceedings of the 12th International Conference on Green Technology (ICGT 2022), 352–367. <a href="https://doi.org/10.2991/978-94-6463-148-7_35">https://doi.org/10.2991/978-94-6463-148-7_35</a></p>		
	<p>Biswas, N., Mondal, A. S., <b>Kusumastuti, A.</b>, Saha, S., &amp; Modal, K. C. (2022). Automated credit assessment framework using ETL process and machine learning. Innovations in Systems and Software Engineering. <a href="https://doi.org/10.1007/s11334-022-00522-x">https://doi.org/10.1007/s11334-022-00522-x</a></p>		
	<p>Granata, I., Manzo, M., <b>Kusumastuti, A.</b>, &amp; Guarracino, M. R. (2021). Learning from metabolic networks: Current trends and future directions for precision medicine. Current Medicinal Chemistry, 28(32), 6619–6653. <a href="https://doi.org/10.2174/0929867328666201217103148">https://doi.org/10.2174/0929867328666201217103148</a></p>		
	<p><b>Kusumastuti, A.</b>, Brylliant, D. N., &amp; Hidayati, N. A. (2020). Construction analysis of the string motion model on Sasando musical instrument. IOP Conference Series: Earth and Environmental Science, 456(1), 012075. <a href="https://doi.org/10.1088/1755-1315/456/1/012075">https://doi.org/10.1088/1755-1315/456/1/012075</a></p>		
	<p><b>Kusumastuti, A.</b>, Jamhuri, M., &amp; Hidayati, N. A. (2019). Analytical solution of the string vibration model on Sasando musical instrument. Journal of Physics: Conference Series, 1321(2). <a href="https://doi.org/10.1088/1742-6596/1321/2/022088">https://doi.org/10.1088/1742-6596/1321/2/022088</a></p>		
Activities in specialist bodies over the last 5 years <i>(Membership without a specific role need not be mentioned)</i>	Organization	Role	Period