



# UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Mathematics

Sekip Utara Bulaksumur Yogyakarta 55281 Telp: +62 274 552243 Fax: +62 274 555131 Email: [math@ugm.ac.id](mailto:math@ugm.ac.id) Website: <http://math.fmipa.ugm.ac.id>

## STAFF HANDBOOK

Name	<i>Noorma Yulia Megawati</i>		
Post	<i>Applied Mathematics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Master's degree (Actuarial Science)</i>	<i>University of Waterloo</i>	<i>2020</i>
	<i>Doctorate (Math)</i>	<i>University of Groningen</i>	<i>2017</i>
	<i>Master's degree (Math)</i>	<i>UGM</i>	<i>2010</i>
	<i>Undergraduate degree (Math)</i>	<i>UGM</i>	<i>2008</i>
Employment	<i>Lecturer</i>	<i>UGM</i>	<i>2012-2019</i>
	<i>Assistant Professor</i>	<i>UGM</i>	<i>2019-Now</i>
Research and development projects over the last 5 years	<i>A Stochastic model of Participation of Indonesia Presidential electoral</i> <i>April – November 2022</i> <i>Amount of financing: Rp. 15,000,000</i>		
Industry collaborations over the last 5 years	<i>Project title: -</i> <i>Partners: -</i>		
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
Important publications over the last 5 years	<ol style="list-style-type: none"> <li>1. Megawati, N.Y., and van der Schaft, A., 2018, Bisimulation equivalence of differential-algebraic systems, <i>International Journal of Control</i>, 91(1), 45-56.</li> <li>2. Lestari, D., Megawati, N.Y., Susyanto, N., Adi-Kusumo, F., 2022, Qualitative behaviour of a stochastic hepatitis C epidemic model in cellular level, <i>Mathematical Bioscience and Engineering</i>, 19(2), 1515 – 1535.</li> <li>3. Lestari D., Adi-Kusumo, F., Megawati, N.Y., Susyanto, N., 2023, A minimum principle for stochastic control of hepatitis C epidemic model, <i>Bound Value Probl</i> (2023), 52, 1-12.</li> <li>4. Sari, Y.W., Megawati, N.Y., Gunardi, Hutajulu, S.H., 2023, A Mathematical Model for The Treatment Cost Estimation of Breast Cancer with Cardiotoxicity, <i>Engineering Letters</i>, 31, 4, 1853-1858.</li> </ol>		
Activities in specialist bodies over the last 5 years	<i>Organisation</i>	<i>Role</i>	<i>Period</i>
	<i>IndoMS DIY-Jateng</i>	<i>Secretary</i>	<i>2018-2022</i>