



UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Department of Mathematics

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STAFF HANDBOOK

Name	<i>Zenith Purisha</i>		
Post	<i>Computational Mathematics</i>		
Academic career	<i>Initial academic appointment</i>	<i>Institution</i>	<i>Year</i>
	<i>Doctorate (Math)</i>	<i>University of Helsinki</i>	<i>2018</i>
	<i>Master's degree (Math)</i>	<i>UGM</i>	<i>2011</i>
	<i>Undergraduate degree (Math)</i>	<i>UGM</i>	<i>2008</i>
Employment	<i>Lecturer</i>	<i>UGM</i>	<i>2012 - now</i>
Research and development projects over the last 5 years	<p><i>A novel numerical method for CT image reconstruction</i></p> <p><i>April – September 2022</i></p> <p><i>Amount: Rp. 15.000.000</i></p> <p><i>A new numerical method for CT reconstruction from under-sampled data</i></p> <p><i>April – September 2023</i></p> <p><i>Amount: Rp. 15.000.000</i></p>		
Industry collaborations over the last 5 years	<p><i>Project title: -</i></p> <p><i>Partners: -</i></p>		
Patents and proprietary rights	<i>Title</i>	<i>Year</i>	
Important publications over the last 5 years	<p><i>Selected recent publications from a total of approx. 12</i></p> <ol style="list-style-type: none"> 1. Emzir, M., Lasanen, S., Purisha, Z., Roininen, L. and Särkkä, S., 2020. Non-stationary multi-layered Gaussian priors for Bayesian inversion. <i>Inverse Problems</i>, 37(1), p.015002. 2. Brücken, Erik, et al. "Multispectral photon-counting for medical imaging and beam characterization." <i>Journal of Instrumentation</i> 15.02 (2020): C02024. 3. Purisha, Z., Jidling, C., Wahlström, N., Schön, T.B. and Särkkä, S., 2019. Probabilistic approach to limited-data computed tomography reconstruction. <i>Inverse Problems</i>, 35(10), p.105004. 		



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	<ol style="list-style-type: none">4. Hakkarainen, J., Purisha, Z., Solonen, A. and Siltanen, S., 2019. Undersampled dynamic X-ray tomography with dimension reduction Kalman filter. <i>IEEE Transactions on Computational Imaging</i>, 5(3), pp.492-501.5. Purisha, Z., KARHULA, S., KETOLA, J., RIMPELÄINEN, J., NIEMINEN, M., SAARAKKALA, S. and SILTANEN, S., 2019. Accelerated-scan X-ray microtomography for assessing bone mineral content. <i>IEEE Transactions on Medical Imaging</i>.						
Activities in specialist bodies over the last 5 years	<table><thead><tr><th><i>Organisation</i></th><th><i>Role</i></th><th><i>Period</i></th></tr></thead><tbody><tr><td>-</td><td></td><td></td></tr></tbody></table>	<i>Organisation</i>	<i>Role</i>	<i>Period</i>	-		
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