



Syarifah Meurah Yuni, S.Si., M.Si

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| Position | <b>Research Interest:</b> Mathematical Modeling<br><b>Teaching Responsibilities:</b> Teaching in the Mathematics Department : Bachelor of Mathematics Study Program |
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| Academic Career                                  | <b>Magister Course:</b> Institut Teknologi Bandung, Indonesia - Mathematics (2005) ;<br><b>Bachelor Course:</b> Universitas Syiah Kuala, Indonesia - Mathematics (2002)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Employment                                       | Associate Professor in Mathematics Department FMIPA, USK (2025 - Present),<br>Lecturer in Mathematics Department, FMIPA, USK (2008).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Research and development projects (last 5 years) | 1. Analysis of the Open Unemployment Rate in Aceh Province Using the Geographically Weighted Regression (GWR) Method. Grant Program: Research Grant, Community Service, And Innovation Grant USK Scheme: Research Expert Assistant/ IDR20.000.000/ 2024.<br>2. Modeling of Bed Morphological Changes in Lampuuk Coastal Waters, Lhoknga, Leupung Dan Lhoong Aceh Besar. Grant Program: Research Grant, Community Service, And Innovation Grant USK. Scheme: RESEARCH OF Assistant Professor/ IDR44.800.000/ 2024.<br>3. Circulation of Longshore Currents in the Eastern Coastal Waters of Aceh Besar. Grant Program: National Competitive Research. Scheme: Fundamental Research - Regular/ IDR131.950.000/ 2024.<br>4. Mathematical Model of Dissolved Oxygen Concentration Using Sumudu Transform in Krueng Daroy, Banda Aceh. Grant Program: Research Grant, Community Service, And Innovation Grant USK. Scheme: RESEARCH OF Assistant Professor/ IDR23.750.000/ 2023.<br>5. Mathematical Model of Shoreline Changes in Alue Naga Waters, Banda Aceh, Using Laplace Transform. Grant Program: Research Grant, Community Service, And Innovation Grant USK. Scheme: RESEARCH OF Assistant Professor/ IDR29.670.000/ 2022<br>6. Dynamics of Waves, Currents, and Seabed Morphological Changes in the Coastal Waters of Ujung Batee, Lhok Mee, and Leungah, Aceh Besar District. Grant Program: Decentralization Research. Scheme: Superior Basic Research Of Higher Education/ IDR114.500.000/ 2022. |
| Patents and proprietary rights                   | Copyright Patent (HAK CIPTA): Thematic Map of Geographically Weighted Regression (GWR) Model on Open Unemployment Rate in Aceh Province in 2022 (image); Motif Fraktal Bungong Meulu.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Publications (last 5 years)                      | 1. <b>Syarifah Meurah Yuni</b> , T. Murdani Saputra, Nadya Nur Fadhilah (2025) The Implementation Of Geographically Weighted Regression (Gwr) Method On Open Unemployment Rate In Regency/City Of Sumatra Island/ Barekeng: Journal of Mathematics and Its Applications, 19(1), 73-86.<br>2. Putri Marni, Junaidi M Affan, Ichsan Setiawan, <b>Syarifah Meurah Yuni</b> , Sayyid Afdhal El Rahimi, Thaib Rizwan, Faliqul Isbah (2024) The Influence of Sea Surface Temperature on Yellowfin Tuna Catch at le Meulee Fish Landing Place, Sabang City"/Jurnal Kelautan dan Perikanan Indonesia, 4(10), 29-35<br>3. <b>Syarifah Meurah Yuni</b> , Vera Halfiani, O Maufiza (2023) Simulation on coastline change impacted by a groyne as shore protection, IOP Conference Series: Earth and Environmental Science.<br>4. <b>Syarifah Meurah Yuni</b> , Ratna Sari Dewi, Intan Syahrini, Mahmudi Mahmudi, Nurmaulidar Nurmaulidar (2022) Geometri Diferensial Fungsi Cobb-Douglas Pada Produksi Garam Ud Sira Kajhu, Aceh Besar, Aceh/ Histogram: Jurnal Pendidikan Matematika, 6(1), 67-83.<br>5. Mahyus Ihsan, Dedi Suhaimi, Marwan Ramli, <b>Syarifah Meurah Yuni</b> , Ikhsan Maulidi (2021) Non-perfect maze generation using Kruskal algorithm/Jurnal Natural, 21(1) 35-45                                                                                                                                                                                                                            |
| External link                                    | <a href="http://fsd.usk.ac.id/syarifahmeurahyuni/">http://fsd.usk.ac.id/syarifahmeurahyuni/</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |