

# Staff Handbook

## Geophysics Study Program

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|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------|------------------------------------------------------------------------|
| Name                                                    | Dr. Eng. Muh. Alimuddin Hamzah, M.Eng.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                         |          |                                                                        |
| Post                                                    | Tsunami Modelling – Assistant Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                         |          |                                                                        |
| Academic career                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Institution                                             | Year     |                                                                        |
|                                                         | Initial Academic Appointment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Hasanuddin University                                   | 1993     |                                                                        |
|                                                         | Doctoral Degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Kyoto University                                        | 2001     |                                                                        |
|                                                         | Master Degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Kyoto University                                        | 1998     |                                                                        |
|                                                         | Undergraduate Degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Hasanuddin University                                   | 1991     |                                                                        |
| Employment                                              | Position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Employer                                                | Period   |                                                                        |
|                                                         | Assistant Professor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Hasanuddin University                                   |          |                                                                        |
| Research and development projects over the last 5 years | <p>1. <b>Research Project:</b> Thematic Research Group UNHAS<br/><b>Research Title:</b> Pemodelan Tsunami Terintegrasi untuk Mengkaji Ancaman Tsunami di Sekitar Pulau Sulawesi Berdasarkan Aktivitas Sumber Gempa Aktif<br/><b>Period:</b> 2025<br/><b>Fund:</b> Rp. 60.000.000<br/><b>Partners:</b> Sabrianto, Aswad, M. Alimuddin, Erfan, M. Fawzy, A. M. Pramadi, Saaduddin, Hendra Pachri, Purwanto, M.Taufqi Rafie</p> <p>2. <b>Research Project:</b> Hibah Internal Penelitian Penelitian Fundamental Kolaboratif, LPPM Unhas (Research Member)<br/><b>Research Title:</b> Pemodelan Rekonstruksi Tsunami di Laut Sawu Akibat Aktivitas Gunung Api Iya sebagai Upaya Mitigasi Bencana<br/><b>Period:</b> 2023<br/><b>Fund:</b> Rp. 66.000.000</p> |                                                         |          |                                                                        |
| Industry collaborations over the last 5 years           | Project title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                         | Partners |                                                                        |
|                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         | -        |                                                                        |
| Patents and proprietary rights                          | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                         | Year     |                                                                        |
|                                                         | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                         | -        |                                                                        |
| Important publications over the last 5 years            | Title                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Journal/Book                                            | Year     | Author/Co-author(s)                                                    |
|                                                         | Seasonal wave dynamics and model validation at Galesong Beach, south Sulawesi: Evaluating the accuracy of wave prediction.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Ecological Engineering & Environmental Technology (EET) | 2025     | Author: R Mawnad<br>Co-author(s): CM Fachtya, AH Assegaf, E Syamsuddin |
|                                                         | Impact of wave energy and sediment transport on shoreline changes: A multi-temporal satellite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Journal of Degraded and Mining Lands Management         | 2025     | Author: S Sakka<br>Co-Authors:                                         |

|  |                                                                                                                                                       |                                                         |               |                                                                                  |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------|----------------------------------------------------------------------------------|
|  | image analysis in Galesong, Takalar Regency, Indonesia                                                                                                |                                                         |               | AH Assegaf, A Amiruddin, S Saaduddin, SNAA Azis, AMI Ismail                      |
|  | Integrating electrical resistivity tomography and x-ray fluorescence for characterizing limestone in the Wapulaka Formation, Central Buton, Indonesia | Journal of Degraded and Mining Lands Management         | 2025          | Author: E Syamsuddin<br>Co-authors: A Maulana, AH Assegaf, UR Irfan              |
|  | Random waves propagation over a sandbars using the SWASH model                                                                                        | American Institute of Physics Conference Series         | 2024          | Author: AH Assegaf<br>Co-authors: W Samad, A Haddade, E Syamsuddin               |
|  | Study into the Effectiveness of Using Activated Carbon of Kluwak Shell (Pangium Edule Reinw) as Adsorbent of Heavy Metals in Wastewater               | Ecological Engineering & Environmental Technology       | 2024          | Author: YS Rusma<br>Co-authors: P Taba, S Fauziah, M Zakir, F Samawi, AH Assegaf |
|  | Ground penetrating radar application for identification of subsurface deformation and fractures at Tadulako University Campus, Palu, Central Sulawesi | The 3rd International Seminar On Science And Technology | 2023          | Author: R Efendi<br>Co-authors: E Syamsuddin, A Assegaf, A Rahman                |
|  | Pembuatan Biobriket Dari Serasah Dan Ampas Kopi Serta Penambahan Limbah Bubuk Kakao Sebagai Pengaroma                                                 | Indonesian Journal of Industrial Research               | 2021          | Author: A Hadiasyah<br>Co-authors: AH Assegaf, F Samawi                          |
|  | Effect of dustfall pollution on chlorophyl content of polyalthea longifolia leaves                                                                    | Journal of Physics: Conference Series                   | 2021          | Author: SA Asis<br>Co-authors: S Suryani, AH Assegaf                             |
|  | <b>Organisation</b>                                                                                                                                   | <b>Role</b>                                             | <b>Period</b> |                                                                                  |

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| Activities in specialist bodies over the last 5 years | - | - | - |
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