

Staff Handbook

Geophysics Study Program

Name	Drs. Erfan Syamsuddin, M	1.Si				
Post	Geotechnics – Associate Professor					
Academic career		Institution			Year	
	Initial Academic Hasanuddin University Appointment		ersity	2001		
	Master Degree	Bandung Institute of Technology Hasanuddin University		1997-2000		
	Undergraduate Degree			1986-1992		
Employment	Position	Employer			Period	
	Associate Professor	Hasanuddin Univ	ersity			
Research and	1. Research Project: Ked	•				
development projects over the last 5 years	Research Title: Implementasi Rekayasa Eksplorasi Endapan Nikel Laterit melalui Integrasi Data ERT dan Data Geologi dalam Menyokong Industri Baterai di Indonesia Period: 2024 Fund: Rp. 744.830.000				•	
Industry	Project ti	tle		Partners		
collaborations over the last 5 years	-				-	
Patents and	Title		Year			
proprietary rights	-		-			
Important publications over	Title	Journal/Book	Ye	ear	Author/Co- author(s)	
the last 5 years	Geochemical Trends of CaO and MgO in Marine Carbonates: Insights from XRF Analysis	IOP Conference Series: Earth and Environ	20)25	Author: Erfan Syamsuddin Co-author(s): Adi Maulana, Ulva Ria Irfan, Muhammad Alimuddin Hamzah Assegaf	
	Spatial Autocorrelation (SPAC) Method for Subsurface Shear Wave Velocity Profiling: A Non-invasive Approach to Site Characterization	IOP Conference Series: Earth and Environ	20)25	Author: Erfan Syamsuddin Co-Authors: Ahmad Fauzy Arif, Makhrani,	



			Ardy Arsyad,
			Rustan Effendi
Optimizing maize	Journal of	2024	Sumbangan
cultivation through	Degraded and		Baja, Nurmiaty
Fuzzy AHP: Balancing	Mining Lands		Nurmiaty,
land suitability, land	Management		Erfan
use, and environmental			Syamsuddin,
sustainability			Syamsuddin
Seasonal wave	Ecological	2025	Author:
dynamics and model	Engineering &		Sakka Sakka
validation at Galesong	Environmental		Co-authors:
Beach, south Sulawesi:	Technology		Cut Mauliditya
Evaluating the accuracy	o,		Fachtya Rizky
of wave prediction			Mawnad,
			Alimuddin
			Hamzah
			Assegaf, Erfan
			Syamsuddin,
			Saaduddin
			Saaduddin
Integrating random	Ecological	2025	Author:
forest and irrigation	Engineering &	2023	S Arif
management in	Environmental		Co-authors:
geographic information	Technology		Sakka Sakka,
systems-based land	recimology		Rahmad
suitability and rice			Nurmiaty,
productivity modeling in			Nurmiaty,
tropical landscapes			Rahmad, Erfan
tropicariandscapes			Syamsuddin,
			Muh. Farid
			Wajedy, Andri Moh. Wahyu
			•
			Laode,
			Syamsuddin
Integrating clastrical	Journal of	2025	Syamsuddin
Integrating electrical		2025	Author:
resistivity tomography	Degraded and		Erfan
and x-ray fluorescence	Mining Lands		Syamsuddin
for characterizing	Management		Co-authors:
limestone in the			Adi Maulana,
Wapulaka Formation,			Alimuddin
Central Buton,			Hamzah
Indonesia			Assegaf, Ulva
			Ria Irfan
Random waves	THE 5TH	2024	Author:
propagation over a	INTERNATIONAL		H. Assegaf
	CONFERENCE ON		Co-authors:



T			
sandbars using the	SCIENCES:		W. Samad, A.
SWASH model	ICOS2022		Haddade, E.
			Syamsuddin
Assessing soil bearing	THE 5TH	2024	Authors:
capacity using the	INTERNATIONAL		E. Syamsuddin
multichannel analysis of	CONFERENCE ON		Co-authors:
surface waves (MASW)	SCIENCES:		S. Aswad, M.
method	ICOS2022		Nasri, S.
			Rasimeng, M.
			F. Shihab
Assessing soil	JOURNAL OF	2024	Authors:
vulnerability in Petobo	DEGRADED AND		Erfan
post-liquefaction zone,	MINING LANDS		Syamsuddin
Palu, Central Sulawesi:	MANAGEMENT		Co-authors:
A microzonation study			Adi Maulana,
utilizing microtremor			Alimuddin
measurements			Hamzah, Ulva
			Ria Irfan
A site-specific	Japanese	2024	Authors:
earthquake ground	Geotechnical	2024	Ardy Arsyad
response analysis and	Society Special		Co-authors
relations to collapsing	Publication		Erfan
	Publication		
buildings in the 2021			Syamsuddin, Mufidatul
Mw. 6.2 Mamuju-			
Majene Earthquake Sulawesi Indonesia			Azmi, Muhammad
Sulawesi muonesia			
			Asyhari,
			Rizqhie
			Wiryadiputra
		2000	Suryadi
Analysis of stress	Annals of	2023	Authors:
changes on the Poso	Geophysics		Muh Altin
fault caused by large			Massinai
inland earthquake: Case			Co-authors:
study of the 2017 Mw			Muhammad
6.6 Poso and the 2018			Taufiq Rafie,
Mw 7.5 Palu-Donggala			Tsaqif Razin, M
earthquakes			Alimuddin
			Hamzah
			Assagaf, Erfan
			Syamsuddin,
			Maria Maria
 Ground penetrating	THE 3RD	2023	Authors:
radar application for	INTERNATIONAL		Rustan Efendi
identification of	SEMINAR ON		Co-authors:
subsurface deformation	SCIENCE AND		Erfan
and fractures at	TECHNOLOGY		Syamsuddin,
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Tadulako University Campus, Palu, Central Sulawesi	2021: The Path of Sustainable Development for a Better Life		Alimuddin Assegaf, Abd Rahman
The importance of detail fault geometry in modelling the stress change caused by large earthquake: Case Study of 2017 Mw 6.7 Poso earthquake	IOP Conference Series: Earth and Environmental Science	2023	Authors: T Razin Co-authors: M T Rafie, M A Massinai, M A Hamzah, Erfan Syamsuddin
Land subsidence assessment on karst based on resistivity and geotechnical parameters	Journal of Degraded and Mining Lands Management	2023	Authors: Muh Altin Massinai Co-authors: Muhammad Fawzy Ismullah Massinai, Erfan Syamsuddin
Seismic Site Classification Using the Multichannel Analysis of Surface Waves Method	Physics Department Faculty of Mathematics and Natural Sciences Universitas Tanjungpura	2022	Authors: Erfan Syamsuddin Co-authors: Aswad Sabrianto, Alimuddin Hamzah, Syamsurijal Rasimeng, Sakka Sakka, Syamsuddin Syamsuddin, Mufly Fadla Muhammad
Water availability analysis of Walanae River	Anjoro: International Journal of Agriculture and Business	2022	Authors: Syamsul Arifin Lias Co-authors: A Assegaf, Sakika, Paharuddin, E Syamsuddin
Petrophysical Analysis Using Deterministic and Probabilistic Methods in	Indonesian Petroleum Association	2022	Authors: Khusnul Khatimah



	Low Resistivity Zone of Gumai and Talang Akar Formations in Jambi Subbasin South Sumatra				Co-authors: Lia Reulina Ketaren, Sabrianto Aswad, Erfan
	Pemanfaatan Frekuensi Alamiah Tanah Menggunakan Pengukuran Mikrotremor Tiga Komponen dalam Mendeteksi Kedalaman Batuan Dasar	Journal Geocelebes	20	21	Syamsuddin Authors: Syamsuddin Erfan Co-Authors: Puji Astuti Aulia, Sofian Sofian, Muhaimin Aziz Dede, Habibullah Muhammad, Linggi Sindy Yustin
	Determination of Aquifer Layer Using Geoelectric Resistivity Method in Lappae, Bone Regency, South Sulawesi, Indonesia	IOP Conference Series: Materials Science and Engineering	20	21	Authors: MA Massinai Co-authors: MFI Massinai, E Syamsuddin, AH Baso, H Cottang
	Determination of rock dynamics characteristics using microtremor array measurement data (A case study: Biromaru Sigi Region, Central Sulawesi)	Journal of Physics: Conference Series	20	21	Authors: R Efendi Co-authors: M Rusydi, E Syamsuddin, A Rahman, A Hamzah, Vilia, Fatwa, Ismail
Activities in specialist bodies over the last 5 years	Organisation Himpunan Ahli Geofisika Indonesia (HAGI)	Role Chairperson of th HAGI Sulserlbar Commission	e	2	Period :019-Present