

Staff Handbook

Geophysics Study Program

Name	Dr. Samsu Arif, M.Si.			
Post	Geospatial Modeling, Geo-AI and Geographic Information System (GIS) – Associate Professor			
Academic career		Institution	Year	
	Initial Academic Appointment	Hasanuddin University	1991	
	Doctor Degree	Hasanuddin University	2015	
	Master Degree	Gadjah Mada University	1999	
	Undergraduate Degree	Institut Teknologi Bandung	1990	
Employment	Position	Employer	Period	
	Associate Professor (Lektor Kepala)	Hasanuddin University		
Research and development projects over the last 5 years	1. Research Project: Program Dana Padanan 2024 (Research Leader) Research Title: Pemanfaatan Geo-AI Menggunakan Machine Learning Models untuk Pengembangan Tata Kelola Lahan Pertanian di Kabupaten Barru Period: 2024 Fund: Rp. 166.360.400 Partners: Hendra Mesra, Sakka, Nurmiaty, Rahmat, Muh. Sadno, A. Besse Poleuleng 2. Research Project: Hibah Internal Penelitian Dosen Pembimbing Akademik Unhas (PDPA) (Research Leader) Research Title: Penyajian Ruang Terbuka Hijau Kota Makassar dalam Web-GIS Period: 2022 Fund: Rp. 11.000.000 3. Research Project: Dinas Lingkungan Hidup Kota Makassar (Research Member) Research Title: Identifikasi Ruang Terbuka Hijau dan Indeks Kualitas Tutupan Lahan Kota Makassar Period: 2021 Fund: Rp. 69.926.900 Partners: Aswar Syafnur			
Industry collaborations over the last 5 years	Project title		Partners	
	-		-	
Patents and proprietary rights	Title		Year	
	-		-	
	Title	Journal/Book	Year	Author/Co-author(s)

Important publications over the last 5 years	Sistem Informasi Geografis dan Aplikasinya	Lutjanus Publisher	2025	Co-author(s): Syamsuddin, Aswar Syafnur
	Optimizing maize cultivation through Fuzzy AHP: Balancing land suitability, land use, and environmental sustainability	Journal of Degraded and Mining Lands Management	2025	Co-author(s): Nurmiaty, S. Baja, Erfa, Syamsuddin
	Integrating random forest and irrigation management in geographic information systems-based land suitability and rice productivity modeling in tropical landscapes	Ecological Engineering and Environmental Technology	2025	Co-author(s): Sakka, Nurmiaty, Rahmad, Erfan, M. Farid Wajedy, Andir M.W.L, Syamsuddin
	Presentation of Green Open Space of Makassar City In Web-GIS	Jurnal Geoelebes	2023	Co-author(s): Aswar Syafnur, A.M. Imsran I., Aza Azzahra, Wikal
	Compressive strength of concrete containing eggshell powder as partial cement replacement	IOP Conference Series: Earth and Environmental Science	2021	Co-authors: Khairunisa, Chong, Chek, Youventharan
	Modelling land use/land cover changes prediction using multi-layer perceptron neural network (MLPNN): a case study in Makassar City, Indonesia	International Journal of Environmental Studies	2021	Author: A.M.Y. Hakim Co-authors: S. Baja, Rampisela, Samsu Arif
	Durability performance of concrete debris and bottom ash as an alternative track ballast material	IOP Conference Series: Earth and Environmental Science	2021	Author: D. Youventharan Co-authors: P.J. Ramandhansyah, K.M. Jeevithan, O.Rokiah, Samsu Arif
	Predicting land cover change in the Mamminasata area,	ISPRS International Journal of Geo-Information	2020	Author: O. Rokiah Co-authors: M. Khairunisa, D.

	Indonesia, to evaluate the spatial plan			Youventharan, Samsu Arif
Activities in specialist bodies over the last 5 years	Organisation	Role		Period
	Masyarakat Ahli Penginderaan Jauh Korwil Sulsel	Member		2023-Present
	Himpunan Ahli Geofisika Indonesia Korwil Sul-Sel-Bar	Member		2022-2024