UNIVERSITAS PENDIDIKAN INDONESIA
FACULTY OF MATHEMATICS AND NATURAL SCIENCES EDUCATION
PHYSICS EDUCATION STUDY PROGRAM
Jalan Dr. Setiabudi 229 Bandung 40154
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STAFF HANDBOOK

Name	Suci Ramayanti
Position	Geophysics *(Teaching area and designation)*

Academic Career

Initial academic appointment	*Institution*	*Year*
Lecturer	**Universitas Pendidikan Indonesia**	**2024 - now**
Habilitation (Post-doctoral)	*Institution*	*Year*
-	-	
Doctorate	*Institution*	*Year*
Integrative Science (Earth Science)	**Kangwon National University**	**2021 - 2024**
Master	*Institution*	*Year*
Physics	**Institut Teknologi Bandung**	**2018 - 2020**
Undergraduate degree	*Institution*	*Year*
Physics Education	**Universitas Pendidikan Indonesia**	**2013 - 2017**

Employment

Position	*Employer*	*Year*
Lecturer	**Dean**	**2024-now**

Research and development projects over the last 5 years

Name of project or research focus
Period and any other information
Partners, if applicable
Amount of financing

No	Year	Title of Research Project	Financing	
			Sources	Amount (Million Rp)
1	2025	Flood Risk Prediction in West Java Based on Spatial Analysis, Resistivity, and Land Cover Change with a Machine Learning Approach (*member*)	Directorate General of Higher Education, Research, and Technology	84.850.000
2	2025	Mapping of potential flood zones using spatial photogrammetry integration based on convolutional neural networks and turbidity data in the East Bandung area (*member*)	Faculty of Mathematics and Natural Sciences Education, Universitas Pendidikan Indonesia	15.000.000
3	2025	Developing Optimal Solar Cells in West Java Based on Spatial Analysis Using Remote Sensing Data, Geographic Information Systems, and Deep Learning Model (*member*)	Universitas Pendidikan Indonesia	65.000.000

Industry collaborations over the last 5 years

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Patents and proprietary rights

-

Important publications over the last 5 years

Selected recent publications from a total of approx. (give total number): 22 Publication
(Scopus Indexed) Author(s)
Title
Any other information

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Publisher, place of publication, date of publication or name of periodical,volume, issue, page numbers

No	Publication	Author (s)
1.	Wildfire susceptibility mapping by incorporating damage proxy maps, differenced normalized burn Ratio, and deep learning algorithms based on sentinel-1/2 data: a case study on Maui Island, Hawaii. GIScience & Remote Sensing, 2024, 61(1). https://doi.org/10.1080/15481603.2024.2353982	**Suci Ramayanti**, BongChan Kim, Sungjae Park, Chang-Wook Lee
2.	High-resolution imaging coupled with deep learning model for classifying water body of Soyang Lake, South Korea. Geosciences Journal, 2023, 27. https://doi.org/10.1007/s12303-023-0032-7	**Suci Ramayanti**, Sungjae Park, Chang-Wook Lee, Yu-Chul Park
3.	Performance comparison of two deep learning models for flood susceptibility map in Beira area, Mozambique. The Egyptian Journal of Remote Sensing and Space Science, 2022, 25 (4). https://doi.org/10.1016/j.ejrs.2022.11.003	**Suci Ramayanti**, Arip Syaripudin Nur, Mutiara Syifa, Mahdi Panahi, Arief Rizqiyanto Achmad, Sungjae Park, Chang-Wook Lee
4.	Measurement of surface deformation related to the December 2018 Mt. Etna eruption using time-series interferometry and magma modeling for hazard zone mapping. Geosciences Journal, 2022, 26 (6). https://doi.org/10.1007/s12303-022-0021-2	**Suci Ramayanti**, Arief R Achmad, Hahn Chul Jung, Min-Jeong Jo, Sang-Wan Kim, Yu-Chul Park, Chang-Wook Lee
5.	Performance of support vector machine for classifying land cover in optical satellite images: A case study in Delaware River port area. Korean Journal of Remote Sensing, 2022, 38 (6). https://doi.org/10.7780/kjrs.2022.38.6.4.5	**Suci Ramayanti**, Bong Chan Kim, Sungjae Park, Chang-Wook Lee
6.	Estimating the Pre-Historical volcanic eruption in the Hantangang River volcanic field: Experimental and simulation study. Remote Sensing, 2022, 14 (4). https://doi.org/10.3390/rs14040894	Wahyu Luqmanul Hakim, **Suci Ramayanti**, Sungjae Park, Bokyun Ko, Dae-Kyo Cheong, Chang-Wook Lee
7.	Direction of magma migration in Sinabung volcano based on February 2017 hypocenter distribution. AIP Conference Proceedings, 2021, 2320 (1). https://doi.org/10.1063/5.0037607	**Suci Ramayanti**, Wahyu Srigutomo, I Gede Putu Fadjar Soerya Djaja, Prihandhanu Mukti Pratomo, Hetty Triastuty
8.	Classifying Mt. Etna Lava Flows using PlanetScope Image and U-Net-based Deep Learning. Wahana Fisika, 2025, 10 (1). https://doi.org/10.17509/wafi.v10i1.85231	**Suci Ramayanti**, Mimin Iryanti, Widyaningrum Indrasari, Ida Hamidah, Chang-Wook Lee, Lilik Hasanah
9.	Mapping Active Lava Flows from the 2022 Mauna Loa Eruption Using NOAA-20 and S-NPP Satellite Data. Jurnal Ilmiah Pendidikan Fisika Al-Biruni, 2025, 14 (1). https://doi.org/10.24042/jipfalbiruni.v14i1.26753	**Suci Ramayanti**, Chang-Wook Lee, Mimin Iryanti, Widyaningrum Indrasari, Ida Hamidah, Lilik Hasanah

Activities in specialist bodies over the last 5 years

Organization	Role	Periods
Physical Society of Indonesia	Member	2024 - now
GeoAI Data Society	Member	2021 - 2024
Korean Society of Remote Sensing	Member	2021 - 2024
Korean Geological Societies	Member	2021 - 2024