

Prof. Dr. Madlazim, M.Si.

Position	***Lecturer of Earth Physics***		
	Professor in Physics Department, Universitas Negeri Surabaya, Indonesia		
	Degree	***University***	***Year***
Academic career	Bachelor Program at Physics Education Study Program	IKIP Negeri Surabaya-Indonesia	1985-1989
	Master Program at Physics Study Program	Universitas Gadjah Mada-Indonesia	1995-1997
	Doctor Program at Physics Study Program	Institut Teknologi Sepuluh-Indonesia	2008-2011
	Shot course in Research School of Earth Sciences (RSES)	The Australian National University (ANU)	2010
	Government Employer at Ministry of Research, Technology and Higher Education as a Lecturer Institution (now Ministry of Education and Culture)	Universitas Negeri Surabaya-Indonesia	1991-now
Employment	***Position***	***Employer***	***Period***
	Professor in Physics Department	Universitas Negeri Surabaya, Indonesia	2012-now
	Assessor of PAK	Kemendikbud, Indonesia	2017-now
	Expert Staff of PUSLITBANG BMKG Jakarta	Kemendikbud, Indonesia	2013-now
	Head of Physics Department	Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya, Indonesia	2012-2014
	Vice Dean I of Faculty of Mathematics and Natural Sciences	Universitas Negeri Surabaya, Indonesia	2014-2018
	Dean of Faculty of Mathematics and Natural Sciences	Universitas Negeri Surabaya, Indonesia	2019 – Now
Research and development projects over the last 5 years	**2019:** Development of OrSAEv learning models to improve disaster preparedness for candidate teacher students (IDR 100,000,000, Principal Investigator)		

	2018: Development of a CMT method for earthquake assessment and disaster risk reduction (IDR 50,000,000, Principal Investigator) **2017:** Detection of hydrocarbon reservoirs is used for passive seismic methods (IDR: 10,000,000, Principal Investigator) **2016:** Development of a method for decision making skill in tsunami early warning for improved performance of the Ina-TEWS. First Year Research (IDR 85,000,000, Principal Investigator) **2015:** Development of a method for decision making skill in tsunami early warning for improved performance of the Ina-TEWS. Second Year Research (IDR 87,500,000, Principal Investigator)	
Patents and proprietary rights	**Tittle**	**Year**
	Intellectual Property Rights (IPR) for the creation of **Joko Tingkir** software, tsunami early warning technology uses the concept of dominant period, duration exceeded and duration of rupture (No IPR: 2012-01-000009185)	2013 – 2063
	Metode dan Proses Pembuatan Software Joko Tingkir Sebagai Peringatan Dini Tsunami (Hak Paten: P00201702313)	2017 - 2067
	Aplikasi Peringatan Dini Tsunami 4 Menit Setelah Origin Time Gempa Bumi (Hak Cipta: EC00201949313)	2019 - 2069
Important publications over the last 5 years	Validation of Joko Tingkir software using tsunami importance. *Science of Tsunami Hazards* (STH), ***34*** (3), 189-198.	2015
	Evaluation of earthquake parameters used in the Indonesian tsunami early warning system. *Earthquake Science*, ***29*** (1), 27-33.	2016
	Real-time detection and characterization of nuclear explosion using broadband analyses of regional seismic stations. *Journal of Physics: Conference Series*, IOP, Vol. 953, 012211. February 2018.	2018
	Determination of source parameters of the 2017 Mount Agung volcanic earthquake from moment-tensor inversion method using local broadband seismic waveforms. *Journal of Physics: Conference Series*, IOP, Vol. 997, 012001. April 2018	2018
	Source parameter estimates of the 4 November 2016 *mb* = 4.7 earthquake near Lawu mountain in East Java, Indonesia. *Science of Tsunami Hazards* (STH), ***37***(4), 222-231.	2018
	Analysis of travel time delay for large tsunamis across the Pacific and Indian Oceans. *Science of Tsunami Hazards* (STH), ***37***(4), 195-212.	2018
	Effectiveness of CPI (Construction, production, and implementation) teaching model to improve	2018

	science literation for preservice physics teacher). *Journal of Science Education*, ***19***(1).	
	Beta Testing for Increased Accuracy and Improved Performance of The Indonesian Tsunami Early Warning Application (Ina-TEWA). *Science of Tsunami Hazard*, ***38*** (4),169.	2019
	Improvement of science process skills (SPS) with implementation guided inquiry learning using STEM approach. *Journal of Science Education.*	2019
	The gender differences on physics national examination (NE) performance in East Java during the last 3 years (2016-2018). *Journal of Science Education.*	2019
	Identification of students' misconception on Newton's law of gravitation concept using the four-tier diagnostic test instrument. *Journal of Science Education.*	2019
	Development of Tsunami early warning application four minutes after an earthquake. *Science of Tsunami Hazards.*	2019
	Source parameters identification for July 17th, 2014 earthquake around Jayawijaya mountains, Indonesia. *Journal of Physics: Conference Series.*	2019
	Madlazim, Rahmadiarti, F., Masriyah, Indana, S, Sunarti, T., Prahani, B.K. 2020. An OrSAEv learning model to improve the disaster preparedness of STEM teacher candidates. World Transactions on Engineering and Technology Education, 18(2), 231-236. http://www.wiete.com.au/journals/WTE&TE/Pages/Vol.18,%20No.2%20(2020)/25-Prahani-K.pdf	2020
	S Anggrayni, E Hariyono and Madlazim. 2020. The Students' Voice of Volcanology in Education for Sustainable Development Context. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012032	2020
	T Sunarti, W Wasis, M Madlazim and S Suyidno. 2020. Multidisciplinary, Interdisciplinary, and Transdisciplinary Approaches in Literacy Learning Model . Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012054	2020

	Prastowo, T., Madlazim, Cholifah, L. 2020. Analysis of tsunami-magnetic anomaly signal in indonesian regions using theoretical approach and recorded magnetogram. Science of Tsunami Hazards, Volume 39, Issue 1, 2020, Pages 1-17. http://www.tsunamisociety.org/STHVol39N1Y2020.pdf	2020
	T Prastowo, Madlazim and L Cholifah. 2020. Possible Detection of Magnetic Anomaly During Tsunami Events in Indonesian Regions Using Global Magnetogram Records. Journal of Physics: Conference Series Vol 1491. https://iopscience.iop.org/article/10.1088/1742-6596/1491/1/012026	2020

	Organization	***Position***	***Period***
Professional Organization	Physical Society of Indonesia (PSI)	Member	Now
	Tsunami Society International (TSI), USA	Member	Now
	Himpunan Ahli Geifisika Indonesia (HAGI)	Member	Now
	Pusat Studi Sains Kebumian (PS2K), FMIPA Unesa	Foubder and Vice Head	Now