



**Muhammad Nurul Fahmi, S.Si., M.Si.**

| Position                                                | <i>Lecturer of geophysics in Department of Physics</i>                                                                                                                                                                                                                                                                                                    |                                                     |               |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------|
|                                                         |                                                                                                                                                                                                                                                                                                                                                           |                                                     |               |
|                                                         | <i>Degree</i>                                                                                                                                                                                                                                                                                                                                             | <i>University</i>                                   | <i>Year</i>   |
| Academic career                                         | <b>Bachelor</b> at Physics                                                                                                                                                                                                                                                                                                                                | Universitas Negeri Surabaya (UNESA)-Indonesia       | 2015-2019     |
|                                                         | <b>Master</b> at Physics                                                                                                                                                                                                                                                                                                                                  | Institut Teknologi Sepuluh November (ITS)-Indonesia | 2020-2021     |
| Employment                                              | <i>Position</i>                                                                                                                                                                                                                                                                                                                                           | <i>Employer</i>                                     | <i>Period</i> |
|                                                         | Lecturer in Physics Study Program                                                                                                                                                                                                                                                                                                                         | Universitas Negeri Surabaya - Indonesia             | 2021- now     |
|                                                         | Assistant Professor in Physics Study Program                                                                                                                                                                                                                                                                                                              | Universitas Negeri Surabaya, Indonesia              | 2019-now      |
| Research and development projects over the last 5 years |                                                                                                                                                                                                                                                                                                                                                           |                                                     |               |
| Patents and proprietary rights                          | Title                                                                                                                                                                                                                                                                                                                                                     |                                                     | Year          |
|                                                         | Prediction of Earthquake Rupture Directivity, Patent Number: <b>EC00202127040</b>                                                                                                                                                                                                                                                                         |                                                     | 2021          |
| Important publications over the last 5 years            | Articles                                                                                                                                                                                                                                                                                                                                                  |                                                     | Year          |
|                                                         | Identifikasi Sesar-Palu Koro Dengan Centroid Moment Tensor (CMT) Menggunakan Inversi Waveform Tiga Komponen. Authors : <b>Muhammad Nurul Fahmi</b> , Madlazim. <i>Jurnal Inovasi Fisika</i> . Vol 8, No 2. pp. 4-10                                                                                                                                       |                                                     | 2019          |
|                                                         | Estimation Of Rupture Directivity, CMT And Earthquake Tsunami Parameters And Their Correlation With The Main Source Of The First Tsunami Wave, September 28, 2018. Authors : Madlazim, Tjipto Prastowo, <b>Muhammad Nurul Fahmi</b> . <i>Sci. Tsu. Hazard</i> . Vol 39, No 4. pp. 228-242. Q3/SJR 2020: 0.237                                             |                                                     | 2020          |
|                                                         | Rupture Directivity And Fault Plane Determination From Analysis Of Rupture Duration Using Broadband P-Waves Of The September 2018 Mw 7.5 Palu, Indonesia Earthquake. Authors : Madlazim, Tjipto Prastowo, <b>Muhammad Nurul Fahmi</b> . IOP Conf. Series: Materials Science and Engineering. <i>IOP Conf. Series: Mater. Sci. Eng.</i> Indexed by Scopus. |                                                     | 2021          |

|                                 | Tsunamis From Strike-Slip And Normal Earthquakes And Its Relation With The Product Of Dominant Period And Duration Of More Than 50 Seconds Of Earthquake P-Wave. Authors : Madlazim, Tjipto Prastowo, <b>Muhammad Nurul Fahmi</b> , Dyah Permata Sari, Ella Melianda, Sorja Koesuma. <i>Sci. Tsu. Hazard</i> . Vol 40, No 2. pp. 101-113. Q3/SJR 2020: 0.237 |          |        | 2021 |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|------|
|                                 | Tsunami Faulting Model Analysis For The 30 October 2020 Normal Earthquake Occurred In Izmir-Turkey. Authors : Madlazim, Tjipto Prastowo, <b>Muhammad Nurul Fahmi</b> , Arie Realita, Dyah Permata Sari. <i>Sci. Tsu. Hazard</i> . Vol 40, No 4. Q3/SJR 2020: 0.237                                                                                           |          |        | 2021 |
|                                 | Identification of The Activated Fault Plane of The 16 June 2021 Earthquake (Mw=5.9) In The Banda Sea (Submitted). Authors : <b>Muhammad Nurul Fahmi</b> , Madlazim, Dyah Permata Sari. <i>Atlantis Press</i> .                                                                                                                                               |          |        | 2021 |
|                                 | Determination of The Rupture Directivity Using The Levenberg-Marquardt Algorithm: Case Study Philippine Earthquake (December 15, 2019 Mw 6.8) (Submitted). Authors : <b>Muhammad Nurul Fahmi</b> , Sungkono, Madlazim. <i>J. Phy. Conf. Ser</i> : Indexed by Scopus.                                                                                         |          |        | 2021 |
| Activities in specialist bodies | Organization                                                                                                                                                                                                                                                                                                                                                 | Position | Period |      |
|                                 |                                                                                                                                                                                                                                                                                                                                                              |          |        |      |