

## Curriculum Vitae

### Megawati, Ph.D.

Institute of Earth Sciences, Academia Sinica

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**Research Interests:** earthquake source physics, seismology

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### Education:

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| 2024 | Doctor of Philosophy, Taiwan International Graduate Program - Earth System Science, Academia Sinica and National Central University, Taipei, Taiwan<br><br>Dissertation: <i>Damaging Intermediate-Depth and Crustal Earthquakes in Southern Java, Indonesia</i><br><br>Advisors: Prof. Dr. Kuo-Fong Ma and Prof. Dr. Po-Fei Chen |
| 2015 | Master of Science, Department of Earth Sciences – National Central University, Taoyuan, Taiwan<br><br>Thesis: <i>Stochastic Ground Motion Simulation with Site Correction in Ilan Area, Northeastern Taiwan</i><br><br>Advisor: Prof. Dr. Kuo-Liang Wen  |
| 2013 | Bachelor of Science, Undergraduate Study Program in Geophysics, Department of Physics, Faculty of Mathematics and Natural Sciences, Gadjah Mada University, Yogyakarta, Indonesia<br><br>Thesis: <i>Resistivity Numerical Modeling for a Case Study of an Underground River</i><br><br>Advisor: Drs. Sudiartono, MS.             |
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### Working Experiences:

- 2025/03-                      Postdoctoral Fellow at Institute of Earth Sciences, Academia Sinica, Taiwan
- 2016-2017                      Lecturer of Geophysical Engineering Study Program, Institut Teknologi Sumatera, South Lampung, Indonesia
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### Publications:

1. Wu, Y.H., Chi, W.C., Chai, L., Toh, A., **Megawati, M.** and Lin, C.J., 2025. Mechanism of Dynamic Triggering for Slab-Related Fluid-Induced Tremors Occurred in Nanao, Taiwan. *Bulletin of the Seismological Society of America*. <https://doi.org/10.1785/0120240256>
  2. **Megawati, M.**, Ma, K.F., Chen, P.F., Sianipar, D. and Hsieh, M.C., 2024. Source characterization of Intermediate-Depth earthquakes in southern Java, Indonesia. *Journal of Asian Earth Sciences*, 264, p.106040. <https://doi.org/10.1016/j.jseaes.2024.106040>
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### Conferences:

- 2020                      The 14th Taiwan Quaternary Meeting (TaiQua), Geosciences 2020: New Horizon and Beyond, Taipei, Taiwan, 17-18 November 2020.
- Megawati**, Sianipar, D., Ma, K.F., Chen, P.F., Hsieh, M.C., 2020. Source Characterization of the Intermediate-Depth Earthquakes in Indonesia. The 14th Taiwan Quaternary Meeting (TaiQua), Taipei, Taiwan.
- 2018                      Taiwan Geosciences Assembly (TGA), Chiayi, Taiwan, 2 – 3 May 2018.
- Megawati**, Sianipar, D., Ma, K.F., Chen, P.F., Hsieh, M.C., 2018. Source Characterization and Aftershock Examination of the 2017 Mw 6.5 Java Intermediate-Depth Earthquake. Taiwan Geosciences Assembly (TGA), Chiayi, Taiwan.
- 2015                      European Geosciences Union (EGU) General Assembly 2015, Vienna, Austria, 12 - 17 April 2015.
- Megawati** and Wen, K.L., 2015. Stochastic Ground Motion Simulation with Site Correction in Ilan Area, Northeastern Taiwan. European Geosciences Union (EGU) General Assembly 2015, Vienna, Austria.
- 2015                      Taiwan Geosciences Assembly (TGA), Taipei, Taiwan, 13 – 14 May 2015.
- Megawati** and Wen, K.L., 2015. Stochastic Ground Motion Simulation with Site Correction in Ilan Area, Northeastern Taiwan. Taiwan Geosciences Assembly (TGA), Taipei, Taiwan.
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### **Programming Languages and Computing Skills:**

- Programming/Scripting Languages: Python, Bash, Linux Shell Script
- Scientific Libraries: ObsPy, Matplotlib
- Seismological and Geophysical Utilities: Finite-fault inversion code (Ji et al., 2002), Seismic Analysis Code (SAC), Generic Mapping Tools (GMT)
- Tools & Software: Jupyter Notebook, VS Code, CorelDRAW, Inkscape, Microsoft Office

### **Languages:**

English (good), Indonesian (native language), Javanese (mother tongue)

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### **Grants and Awards:**

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| 2012 | Student Creativity Program Grant in Research (PKM-P) by the Directorate General of Higher Education (Dikti), Ministry of Education of the Republic of Indonesia for the project: <ul style="list-style-type: none"><li>• Modeling the mapping of an underground river using the Mise à la Masse method.</li></ul> |
| 2011 | Student Research Grant in Social Dedication by Gadjah Mada University with the title “Study of a Subsurface Flow Mapping Model Using the Mise à la Masse Method”.   |