

YUDHA STYAWAN

Lecturer, Geophysicist & Computational Seismology Enthusiast

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🌐 yudhastyawan.github.io

🎓 Google Scholar: [s.itera.id/yudhascholar](https://scholar.google.com/citations?user=s.itera.id/yudhascholar)

📄 ORCID: [0000-0002-0891-5745](https://orcid.org/0000-0002-0891-5745)

🐙 GitHub: github.com/yudhastyawan



📁 PROFESSIONAL EXPERIENCE

Secretary at Earthquake and Tsunami Disaster Mitigation Center

2025 - Present

Institut Teknologi Sumatera, Indonesia

Lecturer - Geophysical Engineering

2022 - Present

Institut Teknologi Sumatera, Indonesia

Teaching undergraduate courses in geophysics. Mentoring students in practical applications and research projects. Research focus areas: seismic data analysis, engineering seismology, and computational modeling.

Laboratory Staff - Geophysical Engineering

2018 - 2021

Institut Teknologi Sumatera, Indonesia

🎓 EDUCATION

Master of Science (M.Sc.) in Geophysics

2021

National Central University, Taiwan

Thesis: Characteristics of Seismic Attenuation in Sumatra Subduction Zone, Indonesia

Advisors: Asst. Prof. Chun-Hsiang Kuo, Prof. Bor-Shouh Huang

Bachelor of Engineering (S.T.) in Geophysical Engineering

2018

Institut Teknologi Sumatera, Indonesia

Skripsi: Lindu Software: Aplikasi Pengolahan Data Seismologi Berbasis Python untuk Tomografi Waktu Tempuh

Advisors: Dr. Tedi Yudistira, S.Si., M.Si., Ruhul Firdaus, S.T., M.T.

💰 GRANTS & RESEARCH FUNDING

ITERA Expertise-Based Research Grant

2025

Application of Brownian Passage Time Method as Recurrence Interval Calculation on Fault Earthquakes in the Western Part of Sunda-Java Strait to Support the Update of Seismic Hazard Assessment Model in Lampung Region

ITERA Assignment Research Grant

2025

Policy Brief Response of Lampung Province City and Regency Towards Megathrust

ITERA Scientific Group Strengthening Research Grant

2025

Azimuth Variation Analysis on Single Station HVSR Measurement in Umbul Niti Geothermal Manifestation, Jatimulyo Village, South Lampung Regency

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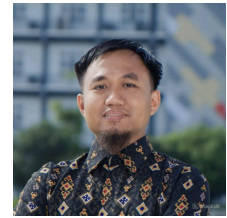
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ITERA Community Service Funding

2025

Early Preparedness: Forming a Tsunami Responsive Generation in Coastal Schools

ITERA Beginner Lecturer Research Grant

2024

Updating Seismic Activity Modeling and Vs30 on Ground Motion Prediction Equations for Long-term Seismic Hazard Assessment in Sumatra, Indonesia: A Probabilistic Approach

RECENT PUBLICATIONS

- Wulandari, R., & Styawan, Y. (2025). Enhancing seismic hazard preparation in Lampung, Sumatra: Improved magnitude conversion, seismicity smoothing, and area source modeling. Indonesian Journal on Geoscience. (Accepted for publication)
- Styawan, Y. (2025). Optimizing seismic b-values in the java region through voronoi-based ok1993 modelling. JGE (Jurnal Geofisika Eksplorasi), 11(2), 109-121. <https://doi.org/10.23960/jge.v11i2.489>
- Styawan, Y. (2025). QuakeSee: Aplikasi cross-platform python berbasis web untuk otomasi dan aksesibilitas dalam pengunduhan data gempa terbuka. GeoScienceEd Journal, 6(3), 1292-1301. <https://doi.org/10.29303/goescienceed.v6i3.968>
- Farduwin, A., Nugraha, P. N., Styawan, Y., Lestari, E. Y. P., & Tr, D. P. J. (2025). Site effects identification using hvsr method in cisarua hot spring area, natar, south lampung. JGE (Jurnal Geofisika Eksplorasi), 11(2), 151-162. <https://doi.org/10.23960/jge.v11i2.494>
- Hamidah, I. F., Farduwin, A., Styawan, Y., Nurfitriani, I., Prasetyo, N., Junian, W. E., & Wulandari, R. (2025). Analisis ancaman gempa lombok menggunakan metode spasial temporal a-value dan b-value periode 1964- 2022. Wahana Fisika, 10(1), 12-26. <https://doi.org/10.17509/wafi.v10i1.76470>

OPEN SOURCE SOFTWARE

- SeisWave: <https://github.com/yudhastyawan/seiswave>
- QuakeSee: <https://github.com/yudhastyawan/quakesee>
- Lindu Software: <https://github.com/Computation-Geophysics-TG-Itera/lindu-software>

TECHNICAL SKILLS

Programming & Dev

Julia, Python, PyQt, Fortran, C++, Git, GMT, Bash / CLI

Geophysical Tools

Seismic, Gravity, Magnetic, and Electrical instruments

Software & OS

Linux, LaTeX

Professional Interests

Computational Seismology, Engineering Seismology, Geophysics Software Development