

Rendy Ramadhana Wahyudi

PASSIONATE GEOPHYSICIST | SEISMIC DATA ENTHUSIAST

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PROFESSIONAL SUMMARY

Fast-learning and flexible young professional with a passion for continuous learning and a solution-oriented mindset. Eager to leverage education and training in subsurface geoscience, combining a hands-on approach with strong attention to detail to support the effective transformation of seismic data into actionable insights. Demonstrates a proven ability to work collaboratively in teams or independently, with excellent verbal and written communication skills.

AREAS OF EXPERTISE

✓ Seismic Processing	✓ GIS and Mapping Tools	✓ Project Planning
✓ Geophysical Data Interpretation	✓ Data Management and QC	✓ Signal Processing
✓ Programming for Geoscience	✓ Geostatistics	✓ Scientific Writing

EDUCATION

- Master of Science in Physics Engineering**, Universitas Padjadjaran, West Java | Nov 2023 - Aug 2025 (Expected)
- **Capstone Project:** *Developing seismic-based disaster detection systems aligned with regional priorities.*
- Bachelor of Science in Geophysical Engineering**, Universitas Padjadjaran, West Java | Aug 2019 - Jul 2023
- **Capstone Project:** *Prototype development of IoT-based distributed seismic sensor network*, published at DOI: 10.2991/978-2-38476-283-5_7.

LEADERSHIP EXPERIENCE

- Program Coordinator, Village Empowerment**, HiMA GEOFISIKA PEDRA, UNPAD | Sep 2021 - Feb 2022
- Coordinated long-term rural outreach, trained disaster awareness to 100+ residents.
- Conducted social mapping across 50+ households and collaborated to co-design impactful educational agendas.
 - Delivered earthquake preparedness workshops attended by 100+ residents, enhancing local resilience.
- Chair, Independence Day Celebration Committee**, Community Resident Group | Aug 2021
- Organized community-wide event in less than a week, fostering strong local engagement.
- Led a diverse volunteer team of 15 to organize an inclusive Independence Day celebration.
 - Fostered participation from 50+ households, creating a sense of belonging across the community.

PROFESSIONAL EXPERIENCE

- Geophysical Engineer, Freelance**, PT. Surya Brinka Persada, West Java | Sep 2024 - Present
- Led a team of 5 in survey design, data acquisition, processing, and preliminary interpretation, while managing and monitoring equipment to ensure accurate and reliable geophysical datasets.
 - Earned positive feedback for optimizing project execution, resulting in up to 50% savings in both time and budget.
- Geoscience Surveyor, Volunteer**, Yayasan Sedekah Air, Jakarta | Dec 2022 - Present
- Liaised with local communities as key stakeholders, communicating technical assessments of potential ground-water sources while managing expectations to ensure alignment with both community needs and environmental standards.
 - Conducted geological and geophysical surveys using the resistivity method, including data quality control, real-time monitoring, and interpretation to ensure reliable subsurface characterization.
 - Provided viable water sources for 50 to 100 households and public facilities (e.g., places of worship and schools) by utilizing accurate, reliable geophysical data to guide effective groundwater development.

CERTIFICATES & GRANT

- TOEFL ITP Score: 527**, Universitas Indonesia | Jul 2024
- Copyright: Educational Documentary Film**, Kemenkumham | Apr 2023
- Graduate Research Grant**, Kemendikbud | Aug 2024
- Graduate Scholarship Awardee**, JFLS, Disdik Jabar | Feb 2025

TECHNICAL SKILLS

Programming: Python, C++, MATLAB | **Geoscience Software:** Res2Dinv, Petrel, Geopsy, QGIS, Surfer | **Documentation & Reporting:** LaTeX, Scientific Writing & Technical Reporting | **Project Management & Collaboration:** Trello, Notion | **Operating System:** Windows, Linux (Ubuntu)