

Fadhli Atarita

Geophysicist

Kingston, ON, Canada | Indonesia

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Education

- Doctor of Philosophy 2021 - present
Geological Engineering (Geophysics), Queen's University at Kingston
Research: The Geoselenic Project, Geodynamics
- Master of Applied Science 2019 - 2021
Geological Engineering (Geophysics), Queen's University at Kingston
GPA 4.20/4.30
Thesis: Hyperspectral Imaging Simulator and Applications for Unmanned Aerial Vehicles.
- Bachelor of Engineering 2013 - 2017
Geophysical Engineering, Bandung Institute of Technology
GPA 3.68/4.00
Thesis: Lava Flow Direction Analysis Based on Anisotropy of Magnetic Susceptibility and Porosity of Igneous Rock from Ijen Volcanic Complex, East Java.
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Technical Skills

MATLAB, Python, Scilab, ModelVision, IP2WIN, RES2DINV, Vista, ProMAX, Seisgram, ArcGIS, Surfer

Experience

- Teaching Assistant 2019 - present
Department of Geological Sciences and Geological Engineering, Queen's University
Courses: Applied Geophysics; Earth Systems and Engineering; Environmental Geology and Natural Hazards.
- Intern Jun 2020 - Sep 2020
Pioneer Exploration Consultants Ltd.
Project: Development of an industry-standard workflow for UAV-based hyperspectral imaging for mineral exploration and data testing.
- Research Assistant Jan 2019 - Jun 2019
Department of Geophysical Engineering, Bandung Institute of Technology
Project: Analysis of the correlation between magnetic anisotropy and porosity in basalt lava.
- Field Assistant May 2017
Department of Geophysical Engineering, Bandung Institute of Technology
Responsibilities: Supervising geomagnetic survey, modelling, and interpretation.
- Teaching Assistant 2016 - 2017
Department of Geophysical Engineering, Bandung Institute of Technology
Courses: Geostatistic; Seismology; Geophysical Instrumentation; Geophysical Computation.
- Intern Dec 2016 - Jan
PT PERTAMINA EP
Project: Processing and interpretation of gravity data from Bunyu Island, North Kalimantan.
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Research Projects

- Integrating a Hyperspectral Camera with an Unmanned Aerial Vehicle for Land Classification and Geological Unit Mapping. (2020)
 - Pre-seismic thermal anomalies from MODIS Land Surface Temperature data: A study on the 2001-2003 Alaska earthquakes. (2020)
 - District heating potential from abandoned wells for the City of Edmonton: A spatial analysis approach. (2019)
 - Pseudogravity transformation for magnetic data in Ontario, Canada. (2019)
 - Aquifer Exploration and Landslide Plane Mapping in Kidang Pananjung, West Java, Indonesia. (2017)
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Honours and Awards

- KEGS Foundation Scholarship - The CGG Airborne Geophysics Scholarship. (2020)
 - Ganesha Karsa of Bandung Institute of Technology. (2017)
 - Recipient of The APPG Foundation's L. Austin Weeks Undergraduate Grant Program. (2017)
 - 1st Winner of The Geophysical Interpretation Competition at The Indonesian Undergraduate Geophysical Competition. (2016)
 - 2nd Winner of The Geobowl Competition in The 2nd South Asian Geosciences Student Conference. (2016)
 - Best Participant in the Geophysical Engineering Department Field Program, Karang Sambung Geophysical Engineering Department, Bandung Institute of Technology. (2016)
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Publications and Presentations

- Synthetic Hyperspectral Imaging Simulator: A Tool for Optimizing Applications in Mineral Exploration
In SPIE Future Sensing Technologies 2021, 15-19 November 2021.
 - HYSIMU: A Hyperspectral Simulator for Airborne Remote Sensing of Soils
In SEG symposium on "Applications of Proximal and Remote Sensing Technologies for Soil Investigations", 16-19 August 2021.
 - Preferred Pore Orientation as a Complement to Anisotropy of Magnetic Susceptibility: A Case Study of Lava Flows from Batur Volcano, Bali, Indonesia
Frontiers in Earth Science, 2020, 8, 636. <https://doi.org/10.3389/feart.2020.578294>
 - Petrology and geochemistry dataset of lava from the Ijen Crater and Mount Blau, Banyuwangi, East Java, Indonesia
Elsevier: Data in Brief, Vol. 2, 202 (2019). <https://doi.org/10.1016/j.dib.2019.104765>
 - Anisotropy of Magnetic Susceptibility and Preferred Pore Orientation in Lava Flow from the Ijen Volcanic Complex, East Java, Indonesia
Geosciences, 2019, 9, 304. <https://doi.org/10.3390/geosciences9070304>
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Organizational Experience

Society of Exploration Geophysicists - Student Chapter: ITB

Member (2015 - 2017)

Geophysical Engineering Department Student Community | HIMA TG "TERRA" ITB

Research Team Coordinator (2016 - 2017)

Community Service Division Member (2015 - 2017)

Minangkabau Art Unit | UKM-ITB

Head of Human Resources Development Division (2015 - 2016)