

Yoseph Datu Adiatma

Qualification Summary

PhD in Earth Science with experience in sedimentology, chemostratigraphy, isotope geochemistry, and numerical modeling. My research centers in reconstructing changes in geologic processes using geochemical proxies (e.g., $\delta^{13}\text{C}$, $^{87}\text{Sr}/^{86}\text{Sr}$, $\delta^{44/40}\text{Ca}$, $\delta^7\text{Li}$, ϵ_{Nd} , I/Ca, Fe speciation) and their roles in shaping the macro-evolution of life on Earth.

Education

Fall 2023	PhD in Earth Science, The Ohio State University
Fall 2018	MS in Earth Science, The Ohio State University
Spring 2014	BS in Geology, Institut Teknologi Bandung

Academic Appointments

2024 - present	Postdoctoral Research Associate, Florida State University <i>Perform geochemical analyses (I/Ca, Fe speciation) on Paleozoic-aged sedimentary rocks to reconstruct the paleoredox states of Cambrian - Ordovician seawater.</i>
Fall 2023	Postdoctoral Research Associate, The Ohio State University <i>Performed calcium isotope analyses ($\delta^{44/40}\text{Ca}$) on Paleozoic-aged carbonate rocks and developed numerical models to constrain the role of diagenesis in affecting geochemical proxies in carbonate rocks.</i>
2019 - 2023	Graduate Research Associate, The Ohio State University, <i>Collected samples, performed geochemical analyses ($\delta^7\text{Li}$, $^{87}\text{Sr}/^{86}\text{Sr}$, ϵ_{Nd}, Sr/Ca, $\delta^{44/40}\text{Ca}$) on Ordovician-aged carbonate rocks, and developed a suite of numerical models to reconstruct changes in global silicate weathering and its role in causing multimillion year climate cooling.</i>

Honors and Awards

2022	The Michael S. Johnson Outstanding Graduate Student Award, The Ohio State University, School of Earth Sciences
2010 – 2013	Dean's List, Institut Teknologi Bandung, Faculty of Earth Sciences and Technology

Professional Associations and Leadership Roles

Indonesia Association of Geologists (IAGI) -- Geological Society of America (GSA) -- American Geophysical Union (AGU) -- American Association of Petroleum Geologists (AAPG)

Student Representative to the Graduate Study Committee at OSU School of Earth Sciences (2021)
Earth Science Delegate to the OSU Council of Graduate Students (2022)

Skills

Geochemistry and Mass Spectrometry

- Sr, Nd, Li, Ca column chemistry
- Basic operations and method development of thermal ionization mass spectrometry (TIMS)
- Basic operations and method development of inductively coupled plasma optical emission spectrometry and mass spectrometry (ICP OES and ICP MS)
- Geochemical modeling

Petrotechnical skill

- Static reservoir modeling (Petrel)
- Petrophysics and well logging (Interactive Petrophysics, Geolog, TechLog)
- Seismic interpretation (Kingdom)

Programming

- Python
- Matlab

Miscellaneous

- Unix-like OS operations (Ubuntu, RHEL, FreeBSD)
- Version control software (git)
- High Performance Computing (HPC)

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Github: <https://github.com/datuadiatma/>

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