

Divine Victor Kalu

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EDUCATION

- **Ph.D. candidate Geophysics**, Honors Program (Expected graduation: May 2026) - University of Houston, Houston, TX
 - Outstanding Academic Achievement Award - 2022
 - Student Research Day Oral Presentation Award - 2024
- **M.S. Geophysics (2021), GPA: 3.66** - University of Houston, Houston, TX
 - Honor Society Foundation, Student Government Association, Hall Council member
- **B.Sc. Applied Geophysics (2018), GPA: 4.39/5.0** - Covenant University, Nigeria
 - Awards: Most Influential Leader, 2nd Best Graduating undergraduate student in Geophysics 2018

SKILLS: Machine Learning | Geophysics | Inversion | Analytics | Uncertainties | Geothermal | Subsurface Characterization

PROFESSIONAL EXPERIENCE

University of Houston, Houston, TX.

Teaching Assistant – Physical Geology Lab

August 2021 – Present

- Designed and implemented lesson plans, structured daily schedules resulting in a more organized and effective learning environment.
- Utilized various instructional and assessment strategies to meet students' needs leading to improved student comprehension and engagement.
- Guided students through complex concepts and assignments, enhancing their academic performance in Geology

SEG EVOLVE

Jan 2020 – May 2020

- Conducted detailed reservoir characterization, contributing to the identification of potential drilling targets.
- Utilized various advanced like Petrel, VistaWin for seismic and well data interpretation, improving technical outcomes.
- Analyzed subsurface data, integrating geophysical and geological insights for exploration project.

Chinese National Petroleum Cooperation International Nigeria Limited, Nigeria

Field Geophysicist and Data Quality Officer Intern (Acquisition and Processing)

July 2018 – July 2019

- Facilitated the planning and designing of high fold seismic surveys for accurate subsurface data
- Directed field crews in collecting seismic data according to survey specifications and safety protocols using explosives
- Processed and analyzed field shot records for data quality assurance by monitoring field operations, identifying anomalies and creating a re-drills and reacquisition of affected stations if needed
- Collaborated with processing teams for optimal data processing outcomes
- Engaged in meetings with supervisors, managements and clients on project progress and challenges.

ACADEMIC PROJECTS/CONFERENCE PUBLICATIONS

IMAGE Conference Abstract (Aug 2024, University of Houston)

- Empowering Mineral Exploration: Leveraging Invertible Neural Networks for Magnetotelluric Data Inversion and Uncertainty Quantification

American Geophysics Union (AGU) Conference Abstract (Aug 2024, University of Houston)

- Leveraging Machine Learning for Mineral Exploration: Invertible Neural Network in Magnetotelluric Data Inversion and Quantifying Uncertainties

Probability Inversion of Magnetotelluric Data for Cover Thickness Estimation and Mineral Exploration in Australia (Aug. 2023, University of Houston)

- Reconstructed detailed subsurface resistivity structures using invertible neural network, improving the clarity and accuracy of geological model for exploration purposes.
- Quantified uncertainties in inverse solutions using both synthetic and Magnetotelluric data, improving the reliability of subsurface models for mineral exploration.
- Inverted for cover thickness to refine mineral prospectivity assessments, leading to more precise identification of potential mineral deposits in the East Tenant region, Australia.