

$Training_{-}$

Columbia University

• New York, NY, U.S.

POSTDOC IN GEOPHYSICS AND SEISMOLOGY -W-

LAMONT-DOHERTY EARTH OBSERVATORY (LDEO) POSTDOCTORAL FELLOW

🛗 Sep. 2022 - Present

Publications_

- -w- Ajala, R., Kolawole, F., & Menke, W. (2024). Blind magmatism abets nonvolcanic rifting, Nature Communications Earth & Environment, 1-8. https://doi.org/10.1038/s43247-024-01244-7
- -w- Ajala, R., Persaud, P., & Juarez, A. (2022). Earth Model Space Exploration in Southern California: Influence of Topography, Geotechnical Layer, and Attenuation on Wavefield Accuracy, Frontiers in Earth Science, 1-19. https://doi.org/10.3389/feart.2022.964806
- -w- Ajala, R. & Persaud, P. (2022). Ground-Motion Evaluation of Hybrid Seismic Velocity Models, The Seismic Record, 2(3), 186-196. https://doi.org/10.1785/0320220022
- -w- Ajala, R. & Persaud, P. (2021). Effect of Merging Multiscale Models on Seismic Wavefield Predictions Near the Southern San Andreas Fault, Journal of Geophysical Research: Solid Earth, 126, 1-23. https://doi.org/10.1029/2021JB021915
- Ajala, R., Persaud, P., Stock, J. M., Fuis, G. S., Hole, J. A., Goldman, M. R., & Scheirer, D. S. (2019). Three-dimensional Basin and Fault Structure From a Detailed Seismic Velocity Model of Coachella Valley, Southern California. Journal of Geophysical Research: Solid Earth, 124, 4728-4750. https://doi.org/10.1029/2018JB016260

Grants_

NSF EAR-PF Award 2403573 for 180,000.00 USD: Synthesizing Multiscale Earth Models to Enhance Exploration, Discovery, and Application

I (PI) wrote the proposal; Mentors: Folarin Kolawole and Daniel Trugman.

Aug. 2024 - Aug. 2026

CRESCENT Award CR2024-01 for 30,991.00 USD: Multi-Resolution and -Scale Synthesis of Cascadia Earth Models

May 2024 - May 2025

I (PI) wrote the proposal; Co-PI: Folarin Kolawole.

SCEC Award 23178 for 29,555.00 USD: Active-Source Adjoint Tomographic Update of CVM-H 15.1 in

Feb. 2023 - Feb. 2024

PI: Folarin Kolawole; I (Co-PI) wrote the proposal.

Lamont Research Fellowship for 150,000.00 USD: Nucleation of Incipient Continental Rifts: Insights from Machine Learning and Mantle-to-Crustal Scale Seismology

🛗 Sep. 2022 - Sep. 2024

I (PI) wrote the proposal. Mentor: Folarin Kolawole.

SCEC Award 21059 for 28.847.00 USD: Updating CVM-S 4.26 in Salton Trough Using Explosion

Feb. 2021 - Feb. 2022

PI: Patricia Persaud; I (Ph.D. Student Investigator) wrote the scientific justification of the proposal.

NSF Supplemental Award for 55,000.00 USD: Seismic Signal Detection, Identification, and Location: An Integrated Machine Learning Approach

Jun. 2021 - Nov. 2021

PI: Patricia Persaud; I (Ph.D. Student Investigator) wrote the scientific justification of the proposal.

SCEC Awards 19014 and 20023 for 60,060.00 USD: Assimilating SSIP data into a Full 3D Tomography (F3DT) model of the Salton Trough

PI: Patricia Persaud; I (Ph.D. Student Investigator) wrote the scientific justification of the proposals.

Honors_

NSF Postdoctoral Research Fellowship

SCEC Meeting Best Overall Presentation (Including Students, Postdocs, and Professors)

Fall 2023

Columbia Postdoctoral Excellence Award

Spring 2024

₩ Fall 2023

Columbia Postdoctoral Research Symposium Best Poster Award

Spring 2023 **#** 2022 - 2024

Lamont-Doherty Postdoctoral Research Fellowship (At 24 Years Old) Undergraduate Earth and Atmospheric Sciences Department Banner Bearer (At 19 Years Old)

May 2017

Mathematics Olympiad (Top 1% in Nigeria)

₩ June 2012