# Rasheed Ajala

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#### Training\_

#### Columbia University

POSTDOC IN GEOPHYSICS AND SEISMOLOGY -W-LAMONT-DOHERTY EARTH OBSERVATORY (LDEO) POSTDOCTORAL FELLOW NSF EAR POSTDOCTORAL FELLOW

**♦** New York, NY, U.S.

₩ 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
- -W- 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\_\_\_\_\_

G1 G1100	
NSF EAR-PF Award 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 I (PI) wrote the proposal; Co-PI: Folarin Kolawole.	₩ May 2024 - May 2025
SCEC Award 24043 for 31,464.00 USD: 3D full waveform inversion of the Salton Seismic Imaging Project active source dataset I (PI) wrote the proposal; Co-PI: Folarin Kolawole.	∰ Feb. 2024 - Feb. 2025
SCEC Award 23178 for 29,555.00 USD: Active-Source Adjoint Tomographic Update of CVM-H 15.1 in Salton Trough PI: Folarin Kolawole; I (Co-PI) wrote the proposal.	∰ Feb. 2023 - Feb. 2024
Lamont Research Fellowship for 150,000.00 USD: Nucleation of Incipient Continental Rifts: Insights from Machine Learning and Mantle-to-Crustal Scale Seismology I (PI) wrote the proposal. Mentor: Folarin Kolawole.	<b>⊞</b> Sep. 2022 - Sep. 2024
SCEC Award 21059 for 28,847.00 USD: <i>Updating CVM-S 4.26 in Salton Trough Using Explosion Waveforms</i> PI: Patricia Persaud; I (Ph.D. Student Investigator) wrote the scientific justification of the proposal.	∰ Feb. 2021 - Feb. 2022
NSF Supplemental Award for 55,000.00 USD: Seismic Signal Detection, Identification, and Location: An Integrated Machine Learning Approach PI: Patricia Persaud; I (Ph.D. Student Investigator) wrote the scientific justification of the proposal.	∰ Jun. 2021 - Nov. 2021
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	∰ Feb. 2019 - Feb. 2021

proposals.

## Honors\_\_\_\_\_

NSF Postdoctoral Research Fellowship	<b>#</b> 2024 - 2026
SCEC Meeting Best Overall Presentation (Including Students, Postdocs, and Professors)	<b>⊞</b> Fall 2023
Columbia Postdoctoral Excellence Award	<b>⊞</b> Fall 2023
Columbia Postdoctoral Research Symposium Best Poster Award	Spring 2023
Lamont-Doherty Postdoctoral Research Fellowship (24 Years Old)	<b>#</b> 2022 - 2024
Undergraduate Earth and Atmospheric Sciences Department Banner Bearer (19 Years Old)	<b>M</b> ay 2017
Mathematics Olympiad (Top 1% in Nigeria)	<b>⊞</b> June 2012