

# Rasheed Ajala

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## Training

### Columbia University

POSTDOC IN GEOPHYSICS AND SEISMOLOGY

LAMONT-DOHERTY EARTH OBSERVATORY (LDEO) POSTDOCTORAL FELLOW

📍 New York, NY, U.S.

📅 Sep. 2022 - Present

## Publications

- ✎ 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>
- ✎ 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>
- ✎ 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>
- ✎ 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* 📅 Aug. 2024 - Aug. 2026  
I (PI) wrote the proposal; Mentors: Folarin Kolawole and Daniel Trugman.
- 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 24043 for 31,464.00 USD: *3D full waveform inversion of the Salton Seismic Imaging Project active source dataset* 📅 Feb. 2023 - Feb. 2024  
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 Salton Trough* 📅 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 Waveforms* 📅 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* 📅 Feb. 2019 - Feb. 2021  
PI: Patricia Persaud; I (Ph.D. Student Investigator) wrote the scientific justification of the proposals.

# Honors

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