Rasheed Ajala

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Training

Columbia University   📍 *New York, NY, U.S.*

POSTDOC IN GEOPHYSICS AND SEISMOLOGY ⌁
LAMONT-DOHERTY EARTH OBSERVATORY (LDEO) POSTDOCTORAL FELLOW   📅 *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

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 144,500.00 USD: *Nucleation of Incipient Continental Rifts: Insights from Machine Learning and Mantle-to-Crustal Scale Seismology*
I (PI) wrote the proposal.   📅 *Sep. 2022 - Sep. 2024*

SCEC Award 21059 for 28,847.00 USD: *Updating CVM-S 4.26 in Salton Trough Using Explosion Waveforms*
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 proposals.   📅 *Feb. 2019 - Feb. 2021*

Honors

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