

## FOLARIN (“FOLA”) KOLAWOLE, PhD

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### Current Position:

- Upstream Structural Geologist, BP America, Houston TX
- Adjunct Associate Research Scientist, Lamont-Doherty Earth Observatory at Columbia University, Palisades, NY

### Areas of Expertise:

Structural Geology, Geophysics, Rock Mechanics

### Professional Appointments:

Adjunct Associate Research Scientist, Lamont-Doherty Earth Observatory	11/2021-current
Upstream Structural Geologist, BP America	08/2020-current
Structural Geology Intern, BP America	05/2019-08/2019
Structural Geology Intern, Chesapeake Energy	05/2018-08/2018
Graduate Research & Teaching Assistant, University of Oklahoma	08/2017-07/2020
Graduate Teaching Assistant, Oklahoma State University	08/2015-07/2017
Bureau of Geophysical Prospecting (BGP-CNPC), Nigeria	10/2010-02/2014

### Education:

University of Oklahoma

PhD.: Geophysics August 2020

*Emphasis:* Structural Geology, Geomechanics, Geophysics

*Advisers:* Brett M. Carpenter, Ze'ev Reches

Oklahoma State University

Masters of Science: Geology August 2017

*Emphasis:* Active Tectonics, Near-Surface Geophysics

*Advisers:* Estella A. Atekwana, Mohamed Abdel Salam

Federal University of Technology, Akure (F.U.T.A.), Nigeria

Bachelor of Technology: Geology October 2008

*Emphasis:* Structural Geology, Remote Sensing

*Adviser:* Yekini B. Anifowose

### My Research

- Structural inheritance and geomechanics of injection induced seismicity
- Structure of early-stage continental rifting
- Intraplate seismicity along the western Africa continental margin
- Basement-driven deformation in areas of tectonic contraction
- Structural geophysics of coseismic surface deformation zones

### **Teaching**

<u>Teaching Assistant:</u> Structural Geology (Univ. of Oklahoma)	2019
<u>Field Teaching Assistant:</u> 3-Day Field Trip on the Geology of Oklahoma for New Graduate Students (Univ. of Oklahoma)	2019
<u>Teaching Assistant:</u> Structural Geology & Stratigraphy for Engineers (Univ. of Oklahoma)	2019
<u>Teaching Assistant:</u> Structural Geology (Univ. of Oklahoma)	2018
<u>Teaching Assistant:</u> Geology & Human Affairs (Oklahoma State Univ.)	2017
<u>Teaching Assistant:</u> Introduction to Geophysics (Oklahoma State Univ.)	2016
<u>Teaching Assistant:</u> Geology & Human Affairs (Oklahoma State Univ.)	2015

### **Fellowship:**

- Chris J. Cheatwood Geology & Geophysics Graduate  
Scholarship Award (University of Oklahoma) August 2018
- Decker Dawson Graduate Fellowship in Geophysics  
(Oklahoma State University) August 2016
- Skinner Geology Graduate Fellowship  
(Oklahoma State University) August 2015

### **Other Awards:**

- 2<sup>nd</sup> Place Best Poster Presentation at the ConocoPhillips Research  
Symposium, University of Oklahoma April 2019
- 1<sup>st</sup> Place Best Poster Presentation at the 2019 AAPG Spring-Break  
Student Expo March 2019
- 2018 Ben Hare Excellence in Research Award, School of  
Geosciences, University of Oklahoma May 2018
- 2018 Geological Society of America (GSA) Research Grant Award  
Award April 2018
- 3<sup>rd</sup> Place Best Poster Presentation at the 2018 AAPG Spring-Break  
Student Expo March 2018
- Best Poster Presentation at AAPG-ConocoPhillips TechFest  
2017 Conference, Oklahoma State University March 2017

### **Professional Activities:**

#### Society Memberships

- Member,* American Geophysical Union (AGU)
- Member,* European Geophysical Union (EGU)
- Member,* National Association of Black Geoscientists (NABG)
- Member,* Geological Society of America (GSA)
- Member,* American Association of Petroleum Geologists (AAPG)

### Journal Editorial Work

- *Associate Editor* Feb 2021-Current  
G-Cubed (AGU journal)
- *Editorial Board Member* Nov 2020-Current  
The Geological Society of London ES<sup>3</sup> (EScubed)
- *Guest Editor, Special issue on Advances in African Earth Sciences* Jan 2021-Current  
Journal: *Frontiers in Earth Science*

### Journal Manuscript Review

Tectonics  
Earth and Planetary Physics  
EGU Solid Earth  
SEG Interpretation  
Journal of African Earth Sciences  
Tectonophysics  
Basin Research  
Italian Journal of Geosciences

### International Meeting Convening

- *Co-Convenor*, AGU 2021 session T023: Recent Advances and Future Directions in Studying the Geology and Tectonics of Africa
- *Co-Convenor*, AGU 2020 session T028: Recent Advances and Future Directions in Studying the Tectonics and Geodynamics of Africa
- *Co-Convenor*, GSA 2020 session T21: The Geology of Induced Seismicity

### Leadership Roles

- *Organizing Committee member*, GFZ Rifts and Rifted Margins Seminar 2021 - Present
- *Coordinating committee member*, EGU TS-Must Read Papers 2020 - 2020
- *Social Media Coordinator*, National Association of Black Geoscientists (NABG) 2017 - 2020
- *Outdoor Trip Coordinator*, AAPG OSU Student Chapter 2016 – 2017

### Invited Talks:

----- 2022-----

- /2022 - AAPG Petroleum Structure and Geomechanics Division
- 04/2022 - Geological Survey of Brazil
- 02/2022 - Georgia Tech.
- 02/2022 - Dallas Geological Society (DGS)

----- 2021-----

- 12/2021 - AGU Fall Meeting, Session T001 “Advances in our understanding of magma-poor and magma-rich rifting processes”
- 11/2021 - Tulane University
- 10/2021 - GSA Annual Meeting (Connects 2021)
- 09/2021 - University of Alaska Anchorage
- 06/2021 - United States Geological Survey, California
- 06/2021 - NSF/GeoPRISMS Rift2Ridge Margins meeting

- 05/2021 - Ruhr-Universität Bochum (RUB)  
 04/2021 - Virginia Tech. (VT)  
 03/2021 - University of St. Andrews  
 02/2021 - Cambridge University  
 02/2021 - University of California, Davis (UC Davis)  
 01/2021 - Utah State University (USU)
- 2020-----  
 12/2020 - AGU Fall Meeting, PPEM Session MR028  
 11/2020 - GFZ Potsdam Rifts & Rifted Margins Webinar

## **Publications**

---Peer-Reviewed---

27. Williams, J.N., Wedmore, L.N.J., Scholz, C.A., **Kolawole, F.**, Wright, L.J.M., Shillington, D., Fagereng, A., Biggs, J., Mdala, H., Dulanya, Z., Mphepo, F., Chindandali, P.R.N., Werner, M.J. (2022). The Malawi Active Fault Database: an onshore-offshore database for regional assessment of seismic hazard and tectonic evolution. *Accepted & in print at G-Cubed. ESSOAr preprint:* <https://www.essoar.org/doi/abs/10.1002/essoar.10507158.1>
26. \*Ojo, O.O., \*Ohenhen, L., **Kolawole, F.**, Johnson, S.G., Chindandali, P.R., Atekwana, E.A., Laó-Dávila, D.A. (2022). Under-Displaced Normal Faults: Strain Accommodation along an Early-Stage Rift-Bounding Fault in the Southern Malawi Rift. *Accepted & in print at Frontiers. ESSOAr preprint:* <https://www.essoar.org/doi/abs/10.1002/essoar.10510073.1>
25. \*Chase, B.F., **Kolawole, F.**, Atekwana, E.A., Carpenter, B.M., Turko, M., Abdelsalam, M.G., and Finn, C. (2022). The 180 km-Long Meers-Willow Fault System in the Southern Oklahoma Aulacogen: A Potential US Mid-Continent Seismic Hazard. *Accepted & in print at GSA Bulletin.*
24. Olugboji, T.M., Shirzaei, M., Lu, Y., Adepelumi, A.A., and **Kolawole, F.** (2021) On the Origin of Orphan Tremors & Intraplate Seismicity in Western Africa. *Frontiers in Earth Science.* doi: 10.3389/feart.2021.716630
23. **Kolawole F.**, Firkins, M.C., Al Wahaibi, T.S., Atekwana, E.A., Soreghan, M.J. (2021). Rift interaction zones and the stages of rift linkage in active segmented continental rift systems. *Basin Research.* Doi: 10.1111/bre.12592.
22. **Kolawole F.**, Phillips, T.B., Atekwana, E.A., Jackson, C.A-L. (2021). Structural Inheritance Controls Strain Distribution During Early Continental Rifting, Rukwa Rift. *Frontiers in Earth Science.* Doi:10.3389/feart.2021.707869
21. Hamilton, M., Carpenter, B.M., Johnston, C.S., **Kolawole, F.**, Evans, S.C. and Elmore, R.D., 2021. Fractured, altered, and faulted basement in northeastern Oklahoma: Implications for induced seismicity. *Journal of Structural Geology*, p.104330. doi:10.1016/j.jsg.2021.104330.
20. Kolawole O., Ispas I., **Kolawole F.**, Germay C., McLennan J.D. Mechanical zonation of rock properties and the development of fluid migration pathways: implications for

enhanced geothermal systems in sedimentary-hosted geothermal reservoirs. *Geothermal Energy*, doi:10.1186/s40517-021-00195-y.

19. Patel, S., **Kolawole, F.**, Walter, J.I., Chen, X., and Marfurt, K.J. (2020). Seismic illumination of small-throw seismogenic faults, Anadarko Basin, Oklahoma. *Interpretation*, vol. 9, no. 2; p. SE35–SE51, doi:10.1190/INT-2020-0135.1.
18. Firkins, M., **Kolawole, F.**, Marfurt, K.J., and Carpenter, B.M. (2020). Attribute-assisted characterization of basement faulting and the associated sedimentary sequence deformation in north-central Oklahoma. *Interpretation*, 8(4), SP175-SP189, doi:10.1190/INT-2020-0053.1.
17. Clairmont, R., **Kolawole, F.**, Omale, A.P., and Bedle, H. (2020). Controls of pre-existing structures on clinoform architecture and the associated progradational system elements. *Basin Research*, 00, 1– 28, doi:10.1111/bre.12487.
16. **Kolawole, F.**, Carpenter, B.M., and Simpson-Turko, M. (2020) Basement-controlled deformation of sedimentary sequences, Anadarko Shelf, Oklahoma. *Basin Research*, 32, 1365– 1387, doi:10.1111/bre.12433.
15. Qin, Y., Chen, X., Walter, J.I., Haffener, J., Trugman, D.T., Carpenter, B.M., Weingarten, M., and **Kolawole, F.** (2019) Deciphering the stress state of seismogenic faults in Oklahoma and southern Kansas based on an improved stress map. *Journal of Geophysical Research: Solid Earth*, 124, 12920– 12934, doi:10.1029/2019JB018377.
14. Njinju, E. A., Atekwana, E. A., Stamps, D. S., Abdelsalam, M. G., Atekwana, E. A., Mickus, K. L., Fishwick, S., **Kolawole, F.**, Rajaonarison, T. A., and Nyalugwe, V. N. (2019). Lithospheric structure of the Malawi Rift: Implications for magma-poor rifting processes. *Tectonics*, 38, doi: 10.1029/2019TC005549.
13. **Kolawole, F.**, Johnston, C.S., Morgan, C.B., Chang, J.C., Marfurt, K.J., Lockner, D.A., Reches, Z., and Carpenter, B.M. (2019) The susceptibility of Oklahoma’s basement to seismic reactivation. *Nature Geoscience*, 12(10), 839-844, doi: 10.1038/s41561-019-0440-5.
12. Njinju, E. A., **Kolawole, F.**, Atekwana, E.A., Stamps, D.S., Atekwana, E.A., Abdelsalam, M.G., Mickus, K.L. (2019). Terrestrial heat flow in the Malawi Rifted Zone, East Africa: Implications for tectono-thermal inheritance in continental rift basins. *Journal of Volcanology and Geothermal Research*, 387, 106656, doi:10.1016/j.jvolgeores.2019.07.023.
11. Heilman, E., **Kolawole, F.**, Atekwana, E.A. and Mayle, M. (2019). Controls of basement fabric on the linkage of rift segments. *Tectonics*, 38(4), 1337-1366, doi:10.1029/2018TC005362.
10. Qin, Y., Chen, X., Carpenter, B.M., and **Kolawole, F.** (2018). Coulomb stress transfer influences fault reactivation in areas of wastewater injection. *Geophysical Research Letters*, doi:10.1029/2018GL079713.
9. **Kolawole, F.**, Atekwana, E.A., Laó-Dávila, D.A., Abdel Salam, M.G., Chindandali, P.R., Salima, J., and Kalindekafe, L. (2018). Active deformation of Malawi rift's north basin Hinge zone modulated by reactivation of pre-existing Precambrian Shear zone fabric. *Tectonics*, 37(3), 683-704, doi:10.1002/2017TC004628.
8. **Kolawole, F.**, Atekwana, E.A., Laó-Dávila, D.A., Abdel Salam, M.G., Chindandali, P.R., Salima, J., and Kalindekafe, L. (2018). High-resolution electrical resistivity and aeromagnetic imaging reveal the causative fault of the 2009 M w 6.0 Karonga, Malawi

earthquake. *Geophysical Journal International*, 213(2), 1412-1425, doi:10.1093/gji/ggy066.

7. **Kolawole, F.**, Atekwana, E.A., Malloy, S., Stamps, D.S., Grandin, R., Abdel Salam, M.G., Leseane, K. and Shemang, E.M. (2017). Aeromagnetic, gravity, and Differential Interferometric Synthetic Aperture Radar analyses reveal the causative fault of the 3 April 2017 Mw 6.5 Moiyabana, Botswana, earthquake. *Geophysical Research Letters*, 44(17), pp.8837-8846, doi:10.1002/2017GL074-620.
6. **Kolawole, F.**, Atekwana, E.A., and Ismail, A. (2017). Near-surface electrical resistivity investigation of coseismic liquefaction-induced ground deformation associated with the 2016 Mw 5.8 Pawnee, Oklahoma, earthquake. *Seismological Research Letters*, 88(4), 1017-1023, doi:10.1785/0220170004.
5. Anifowose, A.Y.B., and **Kolawole, F.** (2014). Appraisal of the geotourism potentials of the Idanre Hills, Nigeria. *Geoheritage*, 6(3), 193-203, doi:10.1007/s12371-014-0100-5.
4. Anifowose, A.Y.B., and **Kolawole, F.** (2012). Emplacement Tectonics of Idanre Batholith, West Africa. *Comunicação Geológicas*, 99(2).
3. Anifowose, A.Y.B., and **Kolawole, F.** (2012). Tectono-hydrological study of Akure metropolis, Southwestern Nigeria. *Special Publication of the Nigerian Association of Hydrological Sciences*, 106-120.
2. **Kolawole, F.**, and Anifowose, A.Y.B. (2011). Talus caves: Geotourist attractions formed by spheroidal and exfoliation weathering on Akure-Ado Inselbergs, Southwestern Nigeria. *Ethiopian Journal of Environmental Studies and Management*, 4(3), 1-6, doi:10.4314/ejesm.v4i3.1.
1. **Kolawole, F.**, and Anifowose, A.Y.B. (2011). Remote sensing analysis of a dextral discontinuity along Ifewara-Zungeru area, Nigeria, West Africa. *Indian Journal of Science and Technology*, 4(1), 46-51.

---Preprints & Papers in review/revision--- (\*undergrad/graduate student research mentee)

6. Dulanya, Z., Williams, J.N., Wedmore, L.N.J., Biggs, J., Fagereng, Å, Gallen, S.F., **Kolawole, F.** Knickpoint Morphotectonics of the Middle Shire River Basin: Implications for the Evolution of Rift Interaction Zones. *Submitted to Basin Research*.
5. Brune, S., **Kolawole, F.**, Olive, J-A., Stamps, D.S., Buck, R.W., Buitter, S. Geodynamics of continental rift initiation and evolution. *In review at Nature Reviews Earth & Environment*.
4. \*Hardy Medry Dieu-Veill Nkodia; Timothée Miyouna; **Folarin Kolawole**; Florent Boudzoumou; Alan Patrick Rodeck Loemba; Nicy Carmel Tchiguina Bazebizonza; Delvaux Damien. Seismogenic Fault Reactivation in Western Central Africa: Insights from Regional Stress Analyses. *In review at G-Cubed*.
3. **Kolawole, F.**, Vick, T., Atekwana, E.A., Laó-Dávila, D.A., Costa, A.G., and Carpenter, B.M. Strain Localization and Migration During the Pulsed Lateral Propagation of the Shire Rift Zone, East Africa. *In review at Tectonophysics. ESSOAr preprint: <https://www.essoar.org/doi/abs/10.1002/essoar.10510192.1>*
2. Li, P., Nakata, N., **Kolawole, F.**, Carpenter, B.M. Towards the Usage of Quarry Blasts as an Active Seismic Source for Subsurface Characterization and Imaging. *In review at Seismological Research Letters*.

- Williams, J.N., Wedmore, L.N.J., Fagereng, A., Werner, M.J., Mdala, H., Shillington, D., Scholz, C.A., **Kolawole, F.**, Wright, L.J.M., Biggs, J., Dulanya, Z., Mphepo, F., Chindandali, P.R.N. Geologic and geodetic constraints on the seismic hazard of Malawi's active faults: The Malawi Seismogenic Source Database (MSSD). *In review at Natural Hazards and Earth System Sciences. Copernicus preprint:* <https://nhess.copernicus.org/preprints/nhess-2021-306/>

---Others (Thesis, Conference Extended Abstracts, and Magazine Articles)---

- Kolawole, F.** (2020). The Roles of Structural Inheritance in Regions of Induced Seismicity and Active Tectonics. *PhD Dissertation, University of Oklahoma.*
- Kolawole, F.**, Carpenter, B.M., and Turko Simpson, M. (2019) The Intra-Basement Reflectors in the STACK Area of Oklahoma: What are they really? *AAPG Explorer, April 2019.*
- Chopra, S., Marfurt, K.J., **Kolawole, F.**, and Carpenter B.M. (2018). Nemaha strike-slip fault expressions on 3D seismic data in the SCOOP trend of Oklahoma. *AAPG Explorer, June 2018.*
- Atekwana, E.A., **Kolawole, F.**, Ismail, A., and Harding, J.K. (2017). Assessing earthquake rupture zones: An integrated Electrical and Aeromagnetic Approach. In International Conference on Engineering Geophysics, Al Ain, United Arab Emirates, 9-12 October 2017, *Society of Exploration Geophysicists (SEG).*
- Kolawole, F.** (2017). Mw 6.0 Karonga, Malawi Earthquake Occurred on Cenozoic Faults That Reactivated Precambrian Shear Zone: Evidence from Aeromagnetic and Electrical Resistivity Imaging. *MSc Thesis, Oklahoma State University.*
- Kolawole, F.** (2008). Brittle Deformation of a Basement Massif in southwest Nigeria, Idanre Batholith. *BSc Thesis, Federal University of Technology, Akure, Nigeria.*

### **Conference Abstracts & Presentations (last 3 years):**

-----2021-----

- Kolawole F.**, Firkins, M.C., Al Wahaibi, T.S., Atekwana, E.A., and Soreghan, M.J. (2021). Progressive lateral propagation, interaction, and linkage of active rift segments: Insights from the East African Rift System. *AGU Fall Meeting abstract #796255.*
- Ojo, O., Ohenhen, L., **Kolawole, F.**, Atekwana, E.A., Laó-Dávila, D.A. (2021). Strain accommodation along early-stage rift-bounding faults, Bilila-Mtakataka Fault, Southern Malawi. *AGU Fall Meeting abstract #961605.*
- Atekwana, E.A., **Kolawole, F.** (2021). Recipe for magma-deficient rifting: Tectonic memory or magmatism? *AGU Fall Meeting abstract #900960.*
- Mongovin, D., Mwongyera, H., Taylor, M.H., Stamps, S.D., Atekwana, E.A., van der Lee, S., Atekwana, E.A., Katumwehe, A.B., Evans, R.L., **Kolawole, F.**, Tugume, F. (2021). Neotectonics of the Rift-Bounding Toro-Bunyoro Fault, Albertine Graben (Uganda), Western Branch of the East African Rift System. *AGU Fall Meeting abstract #945865.*
- Quigley, C., Seyum, S., and **Kolawole, F.** (2021). Laterally heterogeneous crustal mechanical properties control early rift asymmetry. *AGU Fall Meeting abstract #986472.*

- Seyum, S., Quigley, C., and **Kolawole, F.** (2021). Control of Upper Crustal Rock Strengths on the Extension and Propagation of Early-Stage Continental Rifting: Insights from Fracture Mechanics. *AGU Fall Meeting abstract #981462*.
- Stamps, S.D., Atekwana, E.A., Atekwana, E.A., van der Lee, S., Taylor, M.H., Katumwehe, A.B., Evans, R.L., Tugume, F., Aanyu, K., Fishwick, S., Barry, P.H., Halldorsson, A.H., **Kolawole, F.**, Rumpker, G., Kwagalakwe, A., Mongovin, D., Mwongyera, H., Eufrazio de Oliveira, I.J., Islam, E., Birungi, R.N., and Njinju, E.A. (2021). The DRIAR Project: Dry-Rifting in the Albertine-Rhino Graben, Uganda. *AGU Fall Meeting abstract #849492*.
- Atekwana, E.A., **Kolawole, F.**, Njinju, E. (2021). Breaking up continental lithosphere is hard to do: Who's the enabler, magma or tectonic memory? National Academy of Sciences Committee on Solid Earth Geophysics (COSEG) Fall Meeting.
- Kolawole, F.** (2021). How do continental rifts grow? *GSA Annual Meeting (Connects 2021) Abstract #363753*.
- Quigley, C., Seyum, S., and **Kolawole, F.** (2021). Continental rift basin asymmetry and the influence of mechanical properties of upper crustal rocks. *GSA Annual Meeting (Connects 2021) Abstract #370433*.
- Seyum, S., Quigley, C., and **Kolawole, F.** (2021). Crustal mechanical heterogeneity controls rift basin asymmetry during early continental extension. *GSA Annual Meeting (Connects 2021) Abstract #370406*.
- Kolawole, F.** (2021). How Do Continental Rifts Grow? Insights from the East African Rift System. *NSF/GeoPRISMS Rift2Ridge Margins Workshop*.

-----2020-----

- Kolawole, F.**, Reches, Z., and Carpenter, B.M. (2020). Structural inheritance control of induced seismicity in Central-Eastern US. *AGU Fall Meeting abstract #MR019-0002*.
- Kolawole, F.**, Carpenter, B.M., Reches, Z., Atekwana, E.A., Mayle, M., Evans, R., Key, K. (2020). Basement Structure, Fluid Migration Pathways, and Mechanisms of Induced Fault Reactivation in U.S. Mid-Continent. *AGU Fall Meeting abstract #MR028-02*.
- Ngalamo, J.F.G., **Kolawole, F.**, Sobh, M., Atekwana, E.A. (2020). Partitioning of Extension at the Propagating Tips of Continental Rifts: Insights from the Central and East African Rift Systems. *AGU Fall Meeting abstract #T028-06*.
- Omale, A.P., **Kolawole, F.**, Lorenzo, J.M. (2020). Rifting at the Boundary of Contrasting Terrane Fabrics, Luama Rift, DR Congo. *AGU Fall Meeting abstract #T024-0017*.
- Clairmont, R., **Kolawole, F.**, Omale, A.P., Bedle, H. (2020). Controls of buried structures on clinoform architecture, Northern Taranaki Basin, New Zealand. *AGU Fall Meeting abstract #T001-0002*.
- Atekwana, E.A., Slater, L.D., **Kolawole, F.**, Laó-Dávila, D.A. (2020). Advancing Biogeosciences and Tectonophysics Research through Novel Developments in Near Surface Geophysics. *AGU Fall Meeting abstract #NS006-01*.



**Kolawole, F.**, Dangwal, D., Reches, Z., Carpenter, B.M. (2020). Fault-fracture networks at the basement-sedimentary interface, Oklahoma: implications for induced seismicity. *GSA Annual Meeting abstract #354967*.

Carpenter, B.M., Hamilton, M., Johnston, C., **Kolawole, F.**, Firkins, M.C., and Stroud, B. (2020). The fractures of Oklahoma's basement: From core to regional scale. *GSA Annual Meeting abstract #356092*.

Bode-Omoleye, I., Franseen, E.K., **Kolawole, F.** (2020). The inherited pore structure and stratification of the Arbuckle Group, Oklahoma - Southern Kansas. *GSA Annual Meeting abstract #359731*.

-----2019-----

**Kolawole, F.**, Reches, Z., and Carpenter, B.M. (2019). A multiscale analysis of fracture networks in a strike-slip deformation field: Implications for faulting and fluid flow in granitic basement. *AGU Fall Meeting abstract #MR23G-0176*.

Lu, Y., Adepelumi, A., **Kolawole, F.**, Olugboji, T.M. (2019). An investigation of possible dynamically-triggered earthquakes in Western Africa on Sept 5-7, 2018. *AGU Fall Meeting abstract #S23E-0684*.

**Kolawole, F.**, Carpenter, B.M., Reches, Z., Turko-Simpson, M.J. (2019). Basement-Driven Deformation of Sedimentary Sequences in North-Central Oklahoma. *AAPG-ACE abstract #2010, San Antonio, Texas*.

**Kolawole, F.**, Phillips, T., Atekwana, E.A., and Jackson, C.A-L. (2019). Structural inheritance controls strain distribution during early continental rifting, Rukwa Rift. *National Association of Black Geoscientists (NABG) 38<sup>th</sup> Annual Technical Conference, Fayetteville, Arkansas*.

Chen, X., Qin, Y., Wu, Q., **Kolawole, F.**, and Dangwal, D. (2019). Roles of structural complexity and earthquake rupture process on induced earthquake sequences. *Seismological Society of America Annual Meeting, Seattle, Washington*.

Firkins, M., **Kolawole, F.**, Marfurt, K.J., and Carpenter, B.M. (2019). Basement deformation near the termination of a failed magmatic continental rift: Insights from north-central Oklahoma. *GSA Joint South-Central - North-Central - Rocky Mtn Section Meeting, abstract #42-1, Manhattan, Kansas*.

Vick, T., **Kolawole, F.**, Atekwana, E.A., Lao-Davila, D., Costa, A.G., and Carpenter, B.M. (2019). Feedback between structural inheritance, magma-plumbing and faulting in a multiphase rift: The Shire Graben, East Africa Rift System. *GSA Joint South-Central - North-Central - Rocky Mtn Section Meeting, abstract #6-46, Manhattan, Kansas*.

Chase, B., **Kolawole, F.**, Atekwana, E.A., Walter, J., and Carpenter, B.M. (2019). The seismic hazard of buried structures around the Wichita-Amarillo Uplifts in the Southern Oklahoma Aulacogen. *GSA Joint South-Central - North-Central - Rocky Mtn Section Meeting, abstract #21-1, Manhattan, Kansas*.

Carpenter, B.M., **Kolawole, F.**, Kibikas, W., and Reches, Z. (2019). Seismic reactivation of basement structures in Oklahoma. *GSA Joint South-Central - North-Central - Rocky Mtn Section Meeting, abstract #7-5, Manhattan, Kansas*.

**Kolawole, F., Phillips, T., Atekwana, E.A., and Jackson, C.A-L. (2019).** Structural inheritance controls strain distribution during early continental rifting, Rukwa Rift. *EGU General Assembly, 2019-1849, Vienna, Austria.*

-----2018-----

**Kolawole, F., Johnston, C., Chang, J.C., Marfurt, K.J., Reches, Z., and Carpenter, B.M. (2018).** Characterization of pre-existing structures in the basement of Oklahoma with implications for induced seismicity. *GSA Annual Meeting abstract #158-6, Indianapolis, Indiana.*

Chase, B.F., Atekwana, E.A., **Kolawole, F.**, Turko, M.S., Carpenter, B.M., Evans, R.L., Finn, C. (2018). The Southern Oklahoma Aulacogen: New insights on the Paleozoic rift-related and inversion-related structures in the Wichita Uplift. *GSA Annual Meeting abstract #141-6 Indianapolis, Indiana.*

**Kolawole, F., Mickus, K.L., Shemang, E., Selepeng, A., Ramatokoro, C., Molwalefhe, L.N., Nthaba, B., and Atekwana, E.A. (2018).** Crustal structure and reactivation processes along long-lived intraplate faults: insights from the 2017 Mw6.5 Botswana earthquake. *GSA Annual Meeting abstract #174-8 Indianapolis, Indiana.*

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