

Daniel A. Laó Dávila

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EDUCATION:

Ph.D. in Geology, 2008, Department of Geology and Planetary Science, University of Pittsburgh.

M.S. in Geology, 2002, Department of Earth Sciences, Florida International University.

B.S. (Honors) in Geology, 2000, Geology Department, University of Puerto Rico, Mayagüez Campus.

DISSERTATION:

Title: Serpentinite Emplacement And Deformation In Western Puerto Rico And Their Implications For The Caribbean-North America Plate Boundary Tectonic History.

Advisor: Thomas H. Anderson

POSITIONS:

Associate Professor at the T. Boone Pickens School of Geology, Oklahoma State University (2016-Present).

Assistant Professor at the T. Boone Pickens School of Geology, Oklahoma State University (2010-2016).

Research Associate. 2009-2010. Puerto Rico Seismic Network, University of Puerto Rico, Mayagüez.

Adjunct Professor. 2009. Dept. of Geology, Univ. of Puerto Rico, Mayagüez

Instructor. 2008. Dept. of Geology, University of Pittsburgh.

Instructor. 2007. Mathematics and Science Partnerships, Universidad del Este, P.R.

Teaching Fellow. 2004-2005. Dept. of Geology, University of Pittsburgh.

Teaching Assistant. 2003-2004. Dept. of Geology, University of Pittsburgh.

Teaching Assistant. 2000-2002. Dept. of Earth Sciences. Florida International University.

Geologist. Summer 2000. Geologic Mapping of Rincón Quadrangle for Dr. Paul Mann.

Partnership for Spatial and Computational Research student (NASA-UPR). 1999-2000.

University of Puerto Rico, Mayagüez.

Research Technician. 1999. Caribbean-North American Plate Boundary Experiment (CANAPE) of NASA and NSF, Eastern Dominican Republic.

NASA Planetary Geology and Geophysics undergraduate program intern. Summer 1998. United States Geological Survey, Menlo Park, California.

AWARDS AND RECOGNITION

1. Harry Hess medal for outstanding geology student of the Department of Geology, University of Puerto Rico at Mayagüez, 2000.
2. Golden Key Honor Society, 2000.
3. Dean's List, 2000.

SCHOLARSHIPS

1. Provost's Development Fund, Pre-doctoral Fellowship, University of Pittsburgh, Summer 2008.
2. Leighton Scholarship, University of Pittsburgh, 2003-2004.
3. Latin America and Caribbean Scholarship, Florida International University, 2001-2002.

I. RESEARCH

GRANT PROPOSALS

External

Funded

1. **Laó-Dávila, D.A.**, Atekwana, E.A., and Ivey, T., IRES: Research opportunities in continental rift initiation for US undergraduate geoscience students in Malawi; NSF OISE-IRES; IIA-1358150; Total amount funded: \$244,276 (\$225,554 to Boone Pickens School of Geology); Award dates: 10/01/2014-01/30/2017.
2. Anderson, T.H. and **Laó-Dávila, D.A.** "Structural processes recorded during emplacement of oceanic lithosphere above Late Cretaceous carbonate beds and reefs in southwestern Puerto Rico", Co-Principal Investigator, Funded by Exxon-Mobil, Total amount funded: \$39,000; Grant Period: 2006-2008.

3. **Laó-Dávila, D.A.**, "Serpentinite Emplacement and Deformation in Subduction Zones: Example from Puerto Rico, Northeastern Caribbean", \$1,000, Funded by Geological Society of America Graduate Student Grant, Grant Period: 2005.
4. **Laó-Dávila, D.A.**, Geological Society of America Meeting Student Travel Grant, 2004
5. **Laó-Dávila, D.A.**, International Geologic Congress Student Travel Grant, 2004
6. **Laó-Dávila, D.A.**, "Neotectonics of western Puerto Rico; paleostress and paleomagnetic study", \$1,600, Funded by Geological Society of America Graduate Student Grant, Grant Period: 2001

Non-competitive awards

1. **Laó-Dávila, D.A.**, 20 MOVE Software Licenses for teaching and research; Donated by Midland Valley Exploration Ltd; 2012-2015; Estimated value of software: \$164,000 per license per year.

Internal

Funded

1. **Laó-Dávila, D.A.**, Deformation of the upper crust in Oklahoma from Global Positioning Systems; Fall travel award: Total amount requested: \$500; Duration: 08/2013-12/2013.
2. **Laó-Dávila, D.A.**, Transpression of igneous intrusive bodies: a record of oblique convergence and magma flow kinematics; ASR +1: Total amount requested: Summer salary and \$1,000 supplement; Duration: 07/2011-05/2012.

PROFESSIONAL COMMUNICATIONS

Peer-Reviewed Articles - Published

1. Homer, J., **Laó-Dávila, D.A.**, Ramming, C., *in press*, Increasing Seismic Activity in Oklahoma: Are Historic Buildings at Risk?, Architectural Engineering Institute Conference 2017, v. x, p.
2. Emishaw, L., **Laó-Dávila, D.A.**, Abdelsalam, M.G., Atekwana, E.A., Gao, S.S., *in press*, Evolution of the Broadly Rifted Zone in southern Ethiopia through gravitational collapse and extension of dynamic topography, Tectonophysics, v. xx, doi: 10.1016/j.tecto.2016.12.009.

3. Parks, S., Byrnes, J., Abdelsalam, M., **Laó Dávila, D.A.**, Atekwana, E.A., and Atya, M.A., *in press*, Assessing Groundwater Accessibility in the Kharga Basin: A Remote Sensing Approach, *Journal of African Earth Sciences*, v. x, doi: 10.1016/j.jafrearsci.2016.11.002.
4. **Laó-Dávila, D.A.** and Llerandi-Román, P.A., 2015, Structural Analysis of Hanging Wall and Footwall Blocks within the Río Guanajibo Fold-and-Thrust Belt in Southwest Puerto Rico, *International Journal of Earth Sciences*, doi: 10.1007/s00531-015-1290-z.
5. **Laó-Dávila, D.A.**, Al-Salmi, H.S. *, Abdelsalam, M.G., and Atekwana, E.A., 2015, Hierarchical Segmentation of the Malawi Rift: The Influence of Inherited Lithospheric Heterogeneity and Kinematics in the Evolution of Continental Rifts, *Tectonics*, 34, doi: 10.1002/2015TC003953.
6. Roehrig, E.E. *, **Laó-Dávila, D.A.**, and Wolfe A.L., 2015, Serpentinization History of the Río Guanajibo Serpentinite Body, Puerto Rico, *Journal of South American Earth Sciences*, v. 62, p. 195-217, doi: 10.1016/j.jsames.2015.06.004.
7. Katumwehe, A. *, Abdelsalam, M.G., Atekwana, E.A., and **Laó-Dávila, D.A.**, 2015, Extent, kinematics and tectonic origin of the Precambrian Aswa Shear Zone in Eastern Africa, *Gondwana Research*, <http://dx.doi.org/10.1016/j.gr.2015.03.007>
8. **Laó-Dávila, D.A.**, 2014, Collisional Zones in Puerto Rico and the northern Caribbean, *Journal of South American Earth Sciences*, v. 54, p. 1-19, 10.1016/j.jsames.2014.04.009.
9. **Laó-Dávila, D.A.**, Llerandi-Román, P.A., and Anderson, T.H., 2012, Cretaceous-Paleogene thrust emplacement of serpentinite in southwestern Puerto Rico: *Geological Society of America Bulletin*, v. 124, no. 7/8, p. 1169-1190, doi: 10.1130/B30630.1.
10. **Laó-Dávila, D.A.** and Anderson, T.H., 2009, Kinematic analysis of serpentinite structures and the manifestation of transpression in southwestern Puerto Rico: *Journal of Structural Geology*, v. 31, p. 1472-1489.
11. Mann, P., Prentice, C.S., Hippolyte, J-C., Grindlay, N.R., Abrams, L.J., and **Laó-Dávila, D.**, 2005, Reconnaissance study of Late Quaternary faulting along Cerro Goden fault zone, western Puerto Rico, *in* Mann, P., ed., *Active tectonics and seismic hazards of Puerto Rico, the Virgin Islands, and offshore areas*: Boulder, Colorado, Geological Society of America Special Paper, v. 385, p. 115-138.

Invited Lectures

1. **Laó-Dávila, D.A.** "Hierarchical Segmentation of the Malawi Rift: The Influence of Inherited Lithospheric Heterogeneity and Kinematics in the Evolution of Continental Rifts", February 1 2016, Seminar, Department of Geosciences and Geological and Petroleum Engineering, Missouri University of Science and Technology, Rolla, MO.
2. **Laó-Dávila, D.A.** "Structural Analysis of Hanging Wall and Footwall Blocks of the Río Guanajibo Fold-and-Thrust Belt in Southwest Puerto Rico", November 21 2014, Colloquium, Boone Pickens School of Geology, Oklahoma State University.
3. **Laó-Dávila, D.A.**, "Collisional Zones of Puerto Rico and the northern Caribbean", November 29 2012, Seminar, ConocoPhillips School of Geology and Geophysics, University of Oklahoma.
4. **Laó-Dávila, D.A.**, "Field Geology and Caribbean Tectonics", December 2 2011, Colloquium, Boone Pickens School of Geology, Oklahoma State University.
5. **Laó-Dávila, D.A.**, "Update of Study of Serpentinite Deformation and emplacement in Southwestern Puerto Rico", September 6 2006, Graduate Seminar, Department of Geology, University of Puerto Rico, Mayagüez.

Conference Abstracts

1. Nichols, J.A. *, Weber, J., and Laó-Dávila, D., 2017, Structural Analyses of Overturned and Sheared Rocks in the Caribbean Orogen Hinterland: Kinematics of Faults and Scaly Fabrics in the Galera Grit and Toco Cataclasite, Toco, Trinidad: Joint 52nd Northeastern Annual Section / 51st North-Central Annual Section Meeting, Geological Society of America *Abstracts with Programs*. Vol. X, No. X, X.
2. Alder, A.D. *, Weber, J., Laó-Dávila, D., and Pope, M.C., 2017, Geological Mapping, and Kinematic-Fault-Slip and Gigapan™ Image Analysis, Kentland Impact Structure, Indiana, USA: Joint 52nd Northeastern Annual Section / 51st North-Central Annual Section Meeting, Geological Society of America *Abstracts with Programs*. Vol. X, No. X, X.
3. Francisco, R. *, Lao-Davila, D., Atekwana, E.A., Abdelsalam, M.G., Pritt, A.R.¹, Prater, W.T., Salima, J., Chindandali, P.R.N., Chikalamo, E., Santiago-Torres, A. and Velez-Rosado, K.I., 2017, Orientation of Precambrian Structures and the Formation of Border Faults in the Lake Malombe Area, Southern Malawi Rift: South-Central Section, Geological Society of America *Abstracts with Programs*. Vol. 49, No. 1, 10.1130/abs/2017SC-289530.

4. Kolawole, F.* , Atekwana, E.A., Abdelsalam, M.G., Laó-Dávila, D.A., Ivey, T.A., Chindandali, P.R.N. and Salima, J., 2017, The 2009 Karonga, Malawi Earthquake Associated With Partial Rupture of a Blind Cenozoic Fault: Evidence From Aeromagnetic and Electrical Resistivity Data: South-Central Section, Geological Society of America *Abstracts with Programs*. Vol. 49, 10.1130/abs/2017SC-288899.
5. Kolawole, F.* , Atekwana, E.A., Laó-Dávila, D.A., Abdelsalam, M.G., Ivey, T.A., Chindandali, P.R.N., Salima, J., and Kalindekafe, L., 2017, Geoelectrical imaging of the 2009 Karonga, Malawi earthquake rupture zone: Symposium on the Application of Geophysics to Engineering and Environmental Problems, Denver, CO, March 19-2013.
6. Emishaw, L.* , **Laó-Dávila, D.A.**, Abdelsalam, M.G., and Atekwana, E.A., 2016, Evolution of the Broadly Rifted Zone in Southern Ethiopia Through Gravitational Collapse of Dynamic Topography: EOS Trans., American Geophysical Union, Annual Fall Meeting, xx.
7. Kolawole, F.* , Atekwana, E.A., Abdelsalam, M.G., **Laó-Dávila, D.A.**, Ivey, T., Chindandali, P.R., and Salima, J., 2016, 2009 Karonga Earthquake Associated with Active Deformation of the Hinge Zone of the Hanging Wall Block of the Malawi Rift North Basin: Evidence from Aeromagnetic Data: EOS Trans., American Geophysical Union, Annual Fall Meeting, xx.
8. Prater, W.T.* , Vélez-Rosado, K.I., Santiago-Torres, A., Pritt, A.R., **Laó-Dávila, D.A.**, Chikalamo, E., Chindandali, P.R.N., Kamuyango, L., Atekwana, E.A., Abdelsalam, M.G., and Salima, J., 2016, Strain Accommodation of Cenozoic Rifting in the Northern Margin of the Shire Graben, Southern Malawi Rift: EOS Trans., American Geophysical Union, Annual Fall Meeting, xx.
9. Pritt, A.R.* , Prater, W.T., **Laó-Dávila, D.A.**, Abdelsalam, M.G., and Atekwana, E.A., 2016, Rift Border Fault Segmentation Through Along-Strike Deflection: Evidence From Southern Malawi Rift: Geological Society of America, Abstracts with Programs, vol. 48, no. 7, doi: 10.1130/abs/2016AM-282698.
10. Clappe, B.* , Hull, C., Dawson, S., Johnson, T., **Laó-Dávila, D.**, Abdelsalam, M., Chindandali, P., Nyalugwe, V., Atekwana, E., and Salima, 2015, Imaging of the Rupture Zone of the Magnitude 6.2 Karonga Earthquake of 2009 using Electrical Resistivity Surveys: EOS Trans., American Geophysical Union, Annual Fall Meeting, xx.
11. Dawson, S.* , **Laó-Dávila, D.**, Atekwana, E., Clappe, B., Johnson, T., Hull, C., Nyalugwe, V., Abdelsalam, M., Chindandali, P., and Salima, 2015, Strain Accommodation and its

- Relationship to Pre-existing Structures along the Karonga Fault, Malawi: EOS Trans., American Geophysical Union, Annual Fall Meeting, xx.
12. Johnson, T. *, Abdelsalam, M., Atekwana, E., Chindandali, P., Clappe, B., **Laó-Dávila, D.**, Dawson, S., Hull, C., Nyalugwe, V., and Salima, 2015, Mapping Precambrian Basement Fabric with Magnetic Data in the Karonga Basin Area and its Control on the Development of the Malawi Rift: EOS Trans., American Geophysical Union, Annual Fall Meeting, xx.
 13. Hull, C. *, Johnson, T., Chindandali, P., Clappe, B., Dawson, S., **Laó-Dávila, D.**, Atekwana, E., Abdelsalam, M., Ivey, T., Nyalugwe, V., and Salima, 2015, Gravity Transects across the Karonga Fault in the Northern Malawi Rift: EOS Trans., American Geophysical Union, Annual Fall Meeting, xx.
 14. Njinju, E. A. *, Atekwana, E. A., Mickus, K. L., Abdelsalam, M., Atekwana, E. A. and **Laó-Dávila, D.**, 2015, Mid-lithospheric Discontinuity Beneath the Malawi Rift, Deduced from Gravity Studies and its Relation to the Rifting Process: EOS Trans., American Geophysical Union, Annual Fall Meeting, xx.
 15. Njinju, E. A. *, Atekwana, E. A., Abdelsalam, M., Mickus, K. L., Atekwana, E. A. and **Laó-Dávila, D.**, 2015, Possible Crustal And Sub-Continental Lithospheric Mantle Decoupling Beneath The Malawi Rift: Geological Society of America, Abstracts with Programs, vol. 47, no. 7, p. 0.
 16. Al-Salmi, H.S. *, **Laó-Dávila, D.A.**, Abdelsalam, M., and Atekwana, E.A., 2015, Border Fault Segmentation Along The Malawi Rift: South-Central Section, Geological Society of America *Abstracts with Programs*. Vol. 47, No. 1, p.4.
 17. Dawson, S.M. *, **Laó Davila, D.**, Abdel Salam, M., and Atekwana, E., 2015, Uplift History Along The Malawi Rift Through Morpho-Tectonic Analysis: South-Central Section, Geological Society of America *Abstracts with Programs*. Vol. 47, No. 1, p.7.
 18. Robertson, K.E. *, Atekwana, E., Abdelsalam, M., and **Laó Davila, D.**, 2015, Influence Of Pre-Existing Structures On Strain Localization And Evolution At The Southern Termination Of The Malawi Rift: South-Central Section, Geological Society Of America *Abstracts With Programs*. Vol. 47, No. 1, P.8.
 19. Emishaw, L. *, **Laó Dávila, D.A.**, Abdelsalam, M., and Atekwana, E.A., 2015, Gravity And Morpho-Tectonic Analyses Of The Broadly Rifted Zone In Southern Ethiopia: South-Central Section, Geological Society Of America *Abstracts With Programs*. Vol. 47, No. 1, P.8.

20. Matende, K.N. *, Atekwana, E., Abdelsalam, M., **Laó-Dávila, D.**, and Mickus, K.L., 2015, Magmatic Under-Plating Below The Karoo Aged Luangwa Rift Valley?: South-Central Section, Geological Society Of America *Abstracts With Programs*. Vol. 47, No. 1, P.8.
21. **Laó-Dávila, D.A.** and Llerandi-Román, P.A., 2014, Structural Analysis Of Hanging Wall And Footwall Blocks Of The Río Guanajibo Fold-And-Thrust Belt In Southwest, Puerto Rico: Geological Society of America, *Abstracts with Programs*, vol. 46, no. 6, p. 154.
22. Steigerwald, L. * and **Laó-Dávila, D.A.**, 2014, Magnetic Survey of a Fault Splay of the Wilzetta Fault in Central Oklahoma: Geological Society of America, South-Central Section - 48th Annual Meeting, *Abstracts with Programs*, vol. 46, no. 1, p. 0.
23. **Laó-Dávila, D.A.**, 2013, Kinematic model of the Northern Puerto Rico Fault Zone: Transpression, strain partitioning, and lateral extrusion: Geological Society of America, *Abstracts with Programs*, vol. 45, no. 7, p. 115.
24. Llerandi-Román, P.A. and **Laó-Dávila, D.A.**, 2013, Using a geoscience blog to provide research-based, contextual, and culturally-relevant geoscience information to a Spanish-speaking audience: Geological Society of America-Southeastern Section, 62nd Annual Meeting, *Abstracts with Programs*, vol. 45, no. 2, p. 17.
25. **Laó-Dávila, D.A.** and Roehrig, E. *, 2012, Fracture patterns formed from hydration in serpentinite from Mayaguez, Puerto Rico: EOS Trans., American Geophysical Union, Annual Fall Meeting, NS51B-1839.
26. **Laó-Dávila, D.A.**, 2012, Collisional Zones in Puerto Rico: *Geophysical Research Abstracts*, v. 14, EGU2012-6567, European Geosciences Union General Assembly, Vienna, Austria.
27. **Laó-Dávila, D.A.**, Llerandi-Román, P.A., and Anderson, T.H., 2011, Paleogene thrust emplacement of serpentinite in southwestern Puerto Rico: *Transactions of the 19th Caribbean Geological Conference*, Grand-Terre, Guadeloupe, March 20-25.
28. Anderson, T.H. and **Laó-Dávila, D.A.**, 2009, Strike-slip faults and transforms: Keys to plate tectonic processes during evolution of the Caribbean Plate: Geological Society of America, *Abstracts with Programs*, vol. 41, no. 7, p. 128.
29. **Laó-Dávila, D.A.** and Anderson, T.H., 2008, Kinematic Analysis of Structures from Serpentinite in Southwestern Puerto Rico: Implications for Early Tertiary Transpression along the Boundary Between the Caribbean and North America Plates: Geological Society of America, *Abstracts with Programs*, vol. 40, no. 6, p. 187.

30. **Laó-Dávila, D.A.**, Campbell, P., and Anderson, T.H., 2005, Preliminary Study of Serpentinite Deformation in Southwest Puerto Rico: Transactions of the 17th Caribbean Geological Conference, San Juan, Puerto Rico, July 17-21.
31. **Laó-Dávila, D.A.**, Campbell, P., and Anderson, T.H., 2004, Early Tertiary emplacement of serpentinitized peridotite in SW Puerto Rico: Geological Society of America, Abstracts with Programs, vol. 36, no. 5, p. 429.
32. **Laó-Dávila, D.A.**, Anderson, T.H., and Llerandi-Román, P.A., 2004, Olistostromes and Allochthonous Serpentinite: Major Tectonostratigraphic Elements in Southwest Puerto Rico: 32nd International Geological Congress, Florence, Italy.
33. Mann, P., Prentice, C.S., Hippolyte, J.C., and **Laó-Dávila, D.A.**, 2003, Reconnaissance study of late Quaternary faulting along the La Cadena de San Francisco mountain front (Cerro Goden Fault), western Puerto Rico: Seismological Research Letters, Annual Meeting, v. 74, no. 2, p. 201.
34. **Laó-Dávila, D.A.**, and Draper, G., 2002, Insights into the Tertiary tectonic evolution of western Puerto Rico from paleostress studies: Geological Society of America, Abstracts with Programs, v. 34, no. 6, p. 28.
35. **Laó-Dávila, D.A.**, and Draper, G., 2002, Late Paleogene to late Neogene tectonics of western Puerto Rico; paleostress and paleomagnetic study: Transactions of the 16th Caribbean Geological Conference, Barbados.
36. **Laó-Dávila, D.A.**, Mann, P., Prentice, C.S., and Draper, G., 2000, Late Quaternary activity of the Cerro Goden fault zone, transpressional uplift of the La Cadena Range, and their possible relation to the opening of the Mona Rift, western Puerto Rico: EOS Trans., American Geophysical Union, Annual Fall Meeting, p. F1181.
37. **Laó-Dávila, D.A.** and Moore, H.J., 1999, Geology of the Isabella Quadrangle, Venus: IV Sigma Xi Student Poster Night, Sigma Xi Scientific Research Society, Program and Abstracts, University of Puerto Rico, Mayagüez, P.R., Abstract 35.
38. Jansma, P. and **Laó-Dávila, D.A.**, 1999, Shallow seismicity and GPS-determined surface deformation in the northeastern Caribbean: IV Sigma Xi Student Poster Night, Sigma Xi Scientific Research Society, Program and Abstracts, University of Puerto Rico, Mayagüez, P.R., Abstract 36.

* = Student author.

Popular Press

1. **Laó Dávila, D.A.**, 15 January 2012, ¿Hay petróleo en Puerto Rico?: El Nuevo Día, p. 56.
2. **Laó Dávila, D.A.**, 18 December 2011, Terremotos en la Fosa de Puerto Rico: El Nuevo Día, p. 76.
3. **Laó Dávila, D.A.**, 1 March 2010, Cómo se forma un maremoto: El Nuevo Día, p. 55.
4. **Laó Dávila, D.A.**, 22 January 2010, Alto el riesgo para la isla: El Nuevo Día, p. 72.
5. **Laó Dávila, D.A.**, 13 March 2007, Llega a la isla el agua de los glaciares: El Nuevo Día, p. 79.
6. **Laó Dávila, D.A.**, 10 March 2007, Sierra Bermeja: testimonio de historia boricua: El Nuevo Día, p. 107.

Non-Refereed Book Articles

1. **Laó Dávila, D.A.**, 2011, Llega a la isla el agua de los glaciares, *in* González Espada, W.J., Colón Ramos, D.A., and Feliú Mojer, M.I., eds., ¡Ciencia Boricua! Ensayos y anécdotas del científico Puertorro: Colombia, Consejo para el avance en Puerto Rico de la innovación y la investigación científica, p. 57-59.
2. **Laó Dávila, D.A.**, 2011, Placas tectónicas, terremotos y maremotos, *in* González Espada, W.J., Colón Ramos, D.A., and Feliú Mojer, M.I., eds., ¡Ciencia Boricua! Ensayos y anécdotas del científico Puertorro: Colombia, Consejo para el avance en Puerto Rico de la innovación y la investigación científica, p. 76-78.
3. **Laó Dávila, D.A.**, 2011, Sierra Bermeja: testimonio de historia boricua, *in* González Espada, W.J., Colón Ramos, D.A., and Feliú Mojer, M.I., eds., ¡Ciencia Boricua! Ensayos y anécdotas del científico Puertorro: Colombia, Consejo para el avance en Puerto Rico de la innovación y la investigación científica, p. 34-36.

Non-Refereed Articles in Science Blog: "Ciencias Terrestres, geología y Puerto Rico".

<http://geolpr.wordpress.com>

1. **Laó Dávila, D.A.**, September 17 2012, Ciudadanos conocedores de la Tierra: Retrieved from <https://geolpr.wordpress.com/2012/09/17/ciudadanos-conocedores-de-la-tierra/>

2. **Laó Dávila, D.A.**, March 5 2012, La geología de El Yunque: Retrieved from <https://geolpr.wordpress.com/2012/03/05/la-geologia-de-el-yunque/>
3. **Laó Dávila, D.A.**, December 10 2011, Terremotos en la Fosa de Puerto Rico: Retrieved from <https://geolpr.wordpress.com/2011/12/10/terremotos-en-la-fosa-de-puerto-rico/>
4. **Laó Dávila, D.A.**, October 28 2011, Fallas geológicas en Puerto Rico: Retrieved from <https://geolpr.wordpress.com/2011/10/28/fallas-geologicas-en-puerto-rico/>
5. **Laó Dávila, D.A.**, October 3 2011, ¿Lo que en Mona se hace, se queda en Mona?: Retrieved from <https://geolpr.wordpress.com/2011/10/03/%C2%BFlo-que-en-mona-se-hace-se-queda-en-mona/>
6. **Laó Dávila, D.A.**, September 19 2011, ¿Hay petróleo en Puerto Rico?: Retrieved from <https://geolpr.wordpress.com/2011/09/19/%C2%BFhay-petroleo-en-puerto-rico/>
7. **Laó Dávila, D.A.**, September 4 2011, Los archivos de los huracanes: Retrieved from <https://geolpr.wordpress.com/2011/09/04/los-archivos-de-los-huracanes/>
8. **Laó Dávila, D.A.**, August 19 2011, La serpentinita en los bosques de Puerto Rico: Retrieved from <https://geolpr.wordpress.com/2011/08/19/la-serpentinita-en-los-bosques-de-puerto-rico-2/>
9. **Laó Dávila, D.A.**, May 28 2011, La Tragedia en Japón: Retrieved from <https://geolpr.wordpress.com/2011/05/28/hello-world/>

II. TEACHING

TEACHING EXPERIENCE

Oklahoma State University:

Geology and Human Affairs (GEOL 1014), Instructor

Fall 2010: 158 undergraduate students; 10 lab sections

Fall 2012: 252 undergraduate students; 11 lab sections

Fall 2013: 220 undergraduate students; 10 lab sections

Fall 2014: 234 undergraduate students; 10 lab sections

Fall 2015: 230 undergraduate students; 10 lab sections

Spring 2017: 160 undergraduate students; 9 lab sections

Structural Geology (GEOL 3014), Instructor

Spring 2012: 24 undergraduate students and 2 graduate students; 2 lab sections

Spring 2013: 32 undergraduate students and 2 graduate students; 2 lab sections

Fall 2014: 36 undergraduate students and 1 graduate students; 2 lab sections

Fall 2016: 40 undergraduate students and 2 graduate students; 2 lab sections

Plate Tectonics (GEOL 4213), Instructor

Spring 2011: 23 undergraduate students

Spring 2016: 23 undergraduate students

Geologic Field Investigation (GEOL 4030/5030), Instructor

Spring 2016: 7 undergraduate and 4 graduate students

Geology Colloquium (4300/5300), Instructor

Spring 2012: 7 undergraduate students and 3 graduate students

Special Problems in Earth Science (4990), Instructor

Spring 2013: 1 undergraduate student

Fall 2013: 1 undergraduate student

Fall 2014: 1 undergraduate student

Spring 2015: 3 undergraduate students

Summer 2015: 1 undergraduate student

Fall 2015: 3 undergraduate students

Spring 2016: 2 undergraduate students

Fall 2016: 2 undergraduate students

Senior Honors Thesis (4993), Instructor

Spring 2014: 1 undergraduate student

Advanced Methods in Structural Geology (GEOL 5223), Instructor

Fall 2011: 8 graduate students

Fall 2012: 6 graduate students

Spring 2014: 5 graduate students

Spring 2015: 10 graduate students

Master Thesis (GEOL 5000), Instructor

Fall 2012: 1 graduate student

Spring 2013: 1 graduate student

Summer 2013: 1 graduate student

Fall 2013: 1 graduate student

Summer 2015: 1 graduate student

Fall 2015: 1 graduate student

Spring 2016: 1 graduate student

Advanced Studies in Geology (GEOL 5990), Instructor

Spring 2013: 1 graduate student

Fall 2016: 1 graduate student

Spring 2017: 2 graduate students

University of Puerto Rico, Mayagüez:

- GEOL 3025, Earth Sciences -Spring 2009
- GEOL Undergraduate Seminar –Spring 2009

Universidad del Este:

- Science workshops for intermediate school teachers -Fall 2007

University of Pittsburgh:

- Physical Geology Laboratory -Spring 2008
- Structural Geology Laboratory - Fall 2003, Fall 2004, Fall 2005
- Intelligent Life in the Universe Recitation -Summer 2005
- Geology Recitations -Spring 2003, Spring 2004, Spring 2005
- Environmental Geology Recitation -Summer 2004
- Geography Recitations -Summer 2003

Florida International University:

- History of Life Laboratory -Fall 2002
- Structural Geology Laboratory (1)-Spring 2001
- Intro to Earth Science Laboratory (2)-Fall 2000, Summer 2001, Fall 2001, Spring 2002, Summer 2002

TEACHING SERVICES:

Academic Advising - Undergraduate Students

B.S. Student

Spring 2013: Louis Steigerwald

Fall 2013: Louis Steigerwald

Fall 2014: Tiara Johnson

Fall 2015: Jonathan Woods, Rob Baker

Spring 2016: Amy Pritt, Wesley Prater

Fall 2016: Wesley Prater, Reagan Francisco

Spring 2017: Emily Elifritz

Research project for CIED 4713 (Education Methods)

Fall 2012: Ashley Bagwell

Honors Contracts in GEOL 1014:

Fall 2010: Demitri A. Johnson-Cantu

Fall 2012: Spencer Pogue, Matt Falcon, and Kelsie Hoelscher

Fall 2014: Bre Waterman and Alex Beckman

Academic Advising - Graduate Students:

M.S. Student

Erin Roehrig, Fall 2011-Fall 2013

Lulseged Emishaw, Spring 2014-Fall 2015

Sam Dawson, Fall 2014-Fall 2016

Bryan Clappe, Fall 2015-Spring 2016

Inés Barrios Galindez, Fall 2015-Present

Steven Johnston, Fall 2016-Present

PROFESSIONAL SERVICE TO TEACHING:

M.S. Committee Memberships

Byron Waltman's thesis committee, Fall 2010

Robert Reynolds' thesis committee, Fall 2011

Brandi Michaels' thesis committee, Spring 2012 to present

Haifa Al Salmi's thesis committee, Fall 2013 to Summer 2014

Jingyao Meng's thesis committee, Spring 2014 to Fall 2015

Kitso Matende's thesis committee, Spring 2014 to Spring 2015

Shawna Smith's thesis committee, Fall 2014 to Spring 2016

Taylor Thompson's thesis committee, Fall 2014 to Spring 2016

Kari Dayton's thesis committee, Spring 2015 to present

Tucker Steen's thesis committee, Fall 2016 to present

Folarin Kolawole's thesis committee, Fall 2016 to present

Ph.D. Committee Memberships

Eric Akoko's thesis committee, Spring 2011 to Spring 2012

Tim Sickbert's thesis committee, Spring 2011 to present

Farag Mewafy's thesis committee, Fall 2012 to Fall 2013

Andrew Katumwehe's thesis committee, Fall 2012 to Spring 2016

Zelalem Demissie's thesis committee, Fall 2014 to present

Jingyao Meng's thesis committee, Fall 2015 to present

Liang Xue's thesis committee, Fall 2016 to present

SELF-IMPROVEMENT ACTIVITIES

1. Completed UNAVCO Workshop: Imaging and Analyzing Active Faults with High-Resolution Topography, Boulder, CO 4/18/2016-4/19/2016
2. Participated in ITLE Faculty Development Workshop: Matching Teaching Methods to Instructional Goals 3/23/2016
3. Participated in ITLE Faculty Development Workshop: Student engagement by design 2/24/2016
4. Participated in ITLE Faculty Development Workshop: Planning your course 1/27/2016
5. Participated in ITLE Faculty Development Workshop: Student Engagement Track, 9/9/2015, 10/14/2015, 11/11/2015, 12/2/2015
6. Completed "Preparing Online Instructors" course (a six week non-credit online course), Spring 2015
7. Participated in ITLE workshop: Teaching Effectively in Non-formal Learning Environments: A Focus on Study Abroad and International Dimension Experiences 3/11/2015
8. Participated in Foundation Center Grant Writing Workshop 1/27/2015
9. Participated in ENGAGE Workshop in Arlington, Virginia 1/18-19/2015
10. Completed Geological Society of America Short Course: Seismic Structural Interpretation for Academic Faculty, Vancouver, BC 10/18/2014

11. Participated in ITLE workshop: Improving Student Outcomes in a Flipped Learning Environment, 11/12/2014
12. Participated in ITLE workshop: Flipping the Classroom, 1/29/2014
13. Participated in ITLE workshop: Student Engagement, Student Success: Delivering a h
Course, 1/15/2014
14. Completed Geological Society of America Short Course: Modern Digital Geologic Mapping Techniques, Denver, CO 10/27/2013
15. Participated in ITLE workshop: Student Engagement, Student Success: Flipping the
Classroom Effectively, 9/9/2013
16. Completed UNAVCO Short Course: GPS Data Processing and Analysis with
GAMIT/GLOBK/TRACK, Boulder, CO 7/8-12/2013
17. State of Creativity Forum, Oklahoma City, OK, November 13 2012
18. ITLE workshops on Desire 2 Learn (online classroom), 08-09/2012
19. LiDAR training, OSU, Apr 2-16 2012
20. Participated in the American Geosciences Institute Developing a Diverse Professoriate
Workshop in Arlington, VA, April 3-6, 2012.
21. ITLE Faculty Development workshop on Teaching creatively, Feb 9 2012.
22. Participated in RTP workshop of advance OSU, 11/15/2011
23. ITLE Faculty Development workshop on Teaching creatively, Sept 21 2011.
24. Early Career Geoscience Faculty Workshop, NSF, College of William and Mary,
Williamsburg, VA, and NSF Headquarters in Arlington, VA, June 13-19 2011.
25. Science: Becoming the Messenger, NSF, Norman, Oklahoma, March 24 2011.
26. A&S Grant Writing Workshops, Fall 2010-Spring 2011.
27. ITLE Difficult Dialogue Series: Discussing Race and Cultural Issues in the Classroom, Nov.
16, 2010.
28. ITLE Faculty Development workshop on Critical Thinking, Oct. 26 2010.
29. ITLE Teaching in America classrooms as International Faculty Members workshop, Oct. 12
2010.
30. ITLE Faculty Development workshop on Critical Thinking, Sept. 21 2010.
31. Field Course, Integrated basin analysis of the Bighorn Basin, Wyoming, May 18-24, 2008,
Exxon-Mobil.

32. University Teaching Practicum, Faculty of Arts and Sciences, Center for Instructional Development and Distance Education, University of Pittsburgh, Fall 2004.
33. Introduction to Teaching Workshop, August 2000, 2-day intensive Teaching Assistant workshop, The Academy for the Art of Teaching, Florida International University.

III. SERVICE

DEPARTMENTAL

1. Outreach Committee, Fall 2016
2. Alternate curriculum representative of geology for the UTeach Degrees options.
3. Student enrichment committee, Fall 2010 to present; Chair Fall 2016
4. Graduate committee, Spring 2011 to 2014. Created a new rubric to evaluate graduate student applications.
5. Personnel committee, Fall 2011
6. Geophysics Search Committee, Fall 2015
7. Strategic Plan Committee, Fall 2015
8. Preliminary exam committee, Fall 2012 to present
9. Curriculum committee, Fall 2012 to present
10. Won an application for a GeoPRISMS Distinguished Lectureship program lecturer (Ty Rooney) to visit our department
11. Got the department to participate in the AGI Geoscience Student Exit Survey, 2012-2015.
12. Communicated with prospective students interested in the graduate program, 2012-2015.
13. Represented OSU Geosciences in the state-wide Course Equivalency Project meeting in the University of Central Oklahoma, Edmond, OK. September 20 2012.
14. Presented the movie *Switch* in a screening in the department.

COLLEGE

1. Reviewer Arts and Sciences Fall Travel Award Grants
2. Let Ph.D. student Sungah Kim from the Department of Educational Psychology distribute a survey during class for her research. October 25, 2010.

UNIVERSITY

1. Member of the Faculty Council Research Committee (Fall 2015-present).
2. Part of the selection committee for the President's Cup-Promoting Creative Interdisciplinarity, March 26, 2012.

PROFESSIONAL ORGANIZATIONS

1. Reviewed 1 proposal for National Geographic (12/5/2016)
2. NSF reviewer 2016
3. AGU Fall Meeting convener for session "New Insights into the Active Deformation, Tectonic Evolution, and Hazard Mitigation of the Caribbean Plate and South America". Dec. 2015
4. NSF panelist 2015
5. Reviewed 1 paper for Journal of Structural Geology (3/14/14)
6. Reviewed 4 papers for AAPG Bulletin (12/2013, 4/2014, 9/2014, 4/2015)
7. Reviewed 1 paper for Geological Magazine (9/2015)
8. Reviewed 1 paper for Journal of African Earth Sciences (06/2013)
9. Reviewed 1 paper for Boletín Geológico y Minero (4/2015)
10. Reviewed scholarship proposals for COCONet UNAVCO as part of COCONet Working Group 4 (7/2013; 06/2014)
11. Member of the COCONet Working Group 4 (05/2013-present).
12. Participated in the GeoPRISMS Science Workshop for East Africa Rift System. Morristown, NJ. 10/25/2012 - 10/27/2012.
13. GSA Annual Meeting Co-Convener for session T95 "Visualizations in Geology". Oct. 2011.
14. UNAVCO member representative at Oklahoma State University, Fall 2011 to present.
15. Participated in the Subduction Cycles and Deformation Implementation Workshop of the GeoPRISMS program of the National Science Foundation in Austin, TX. 01/5/2011 - 01/07/2011.

RESEARCH

1. Assisted Katie Keranen from OU with Estella Atekwana on the installation of 3 seismic stations near Prague, OK following the three main earthquakes in the region. (11/9/2011)

OUTREACH

1. Developed a Caribbean Tectonics Learning Module for the staff of the Puerto Rico Seismic Network, December 2016
2. Research highlighted in the Beauty in Geology Section, December 2016, DEG Spheres of Influence, AAPG, <http://www.aapg.org/publications/news/spheresofinfluence/details/Articleid/36730/beauty-in-geology>.
3. Participated in a 20-week long online outreach event "I'm a Geoscientist Get me out of here!" developed by the European Geoscience Union.
4. Editor, author, and manager of geoscience education blog in Spanish: "Ciencias Terrestres, geología y Puerto Rico". <http://geolpr.wordpress.com>. More than 4,000 visitors per month mostly from U.S.A., Puerto Rico, and Latin America.
5. Interviewed by journalist from El Nuevo Día, newspaper in Puerto Rico, 6/3/2015.
6. Interviewed by Stillwater resident about recent earthquakes in Oklahoma, 4/29/2014.
7. Interviewed by Holly Bailey from Yahoo News about recent earthquakes in Oklahoma, 4/16/2014.
8. Interviewed by Colleen Curry from ABC news New York about recent earthquakes in Oklahoma 4/11/2014.
9. Interviewed by Tulsa resident about recent earthquakes in Oklahoma, 4/2014.
10. Interviewed by Channel 9 about recent earthquakes in Oklahoma, 2/18/2014.
11. Interviewed by Denver Nicks of Time magazine about recent earthquakes in Oklahoma, 2/18/2014.
12. Interviewed by Channel 2, Tulsa about recent earthquakes in Oklahoma, 2/18/2014.
13. Interviewed by Justin Tate from the Stillwater News Press about recent earthquakes in Oklahoma, 1/16/2014.
14. Participated as earthquake expert in a Twitter chat 1-hour session organized by Koch Communications, 11/20/2013.
15. Interviewed by student from the Daily O'Collegian University newspaper regarding recent earthquakes in central Oklahoma, 11/12/2013.
16. Interviewed by Anthony Slater, student from the Daily O'Collegian University newspaper regarding the 8.9 M earthquake in Japan, 03/25/2011.

17. Interviewed by student from the University newspaper about the 10-13-2010 earthquake that was felt throughout Oklahoma and nearby states, 10/13/2010.

OTHER MATERIAL

Membership in Professional Societies:

1. Geological Society of America
2. American Geophysical Union
3. European Geosciences Union