

## MATTHEW C. LAFEVOR, PhD

Associate Professor, Department of Geography, University of Alabama

Email: [mclafevor@ua.edu](mailto:mclafevor@ua.edu)

Website: <http://www.matthewlafevor.com>

---

### EDUCATION

**The University of Texas at Austin** 2014  
PhD, Geography

**Universidad de las Américas - Puebla, México** 2003  
MA, Administración de Empresas (Internacionales)

**Rhodes College - Memphis, TN** 1998  
BA, International Studies (Latin America)

**Areas of Interest:** agriculture, conservation, water management, surface hydrology and soil erosion, socio-environmental interactions, Mexico and the Caribbean, Latin America

---

### ACADEMIC APPOINTMENTS

**Associate Professor** August 2023 – present  
Department of Geography, University of Alabama

**Assistant Professor** August 2016 – 2023  
Department of Geography, University of Alabama

**Postdoctoral Fellow** August 2014 – 2016  
Socio-Environmental Synthesis Center (SESYNC), University of Maryland

---

### PUBLICATIONS

- 2025 Hales, L. P., Hart, J. L., Hiesl, P., **LaFevor, M. C.**, Snider, I. M. Soil and residual tree impacts of a draft animal-logged timber harvest in the southeastern United States. *Forest Science* 71. DOI: [10.1007/s44391-025-00035-7](https://doi.org/10.1007/s44391-025-00035-7)
- 2025 Thapa, P., Davis, L., Amanambu, A., **LaFevor, M. C.**, Frame, J. Enhanced river morphology analysis using deep learning and medial axis transform with Sentinel 1A imagery. *Earth Surface Processes and Landforms* 50(12). DOI: [10.1002/esp.70158](https://doi.org/10.1002/esp.70158)
- 2025 Hales, L. P., Hart, J. L., Hiesl, P., **LaFevor, M. C.**, Snider, I. Characterizing draft animal logging operations in the southeastern United States. *Trees, Forests and People* 20: 100824. DOI: [10.1016/j.tfp.2025.100824](https://doi.org/10.1016/j.tfp.2025.100824)

- 2025 **LaFevor, M. C.** Geography: Mexico (review essay). In *Handbook of Latin American Studies: Social Sciences No.77*, p. 159-169. (ed.) T. North. Hispanic Division, Library of Congress. Austin: University of Texas Press. [ISBN: 978-1-4773-3047-0](#)
- 2023 Goode, J. D.; Hart, J. L.; Dey, D. C.; **LaFevor, M. C.**; Torreano, S. J. Restoration of low-intensity fire in *Quercus-Pinus* mixedwoods following a prolonged period of fire exclusion. *Canadian Journal of Forest Research* 54(1): 97-109. [DOI: 10.1139/cjfr-2023-0016](#)
- 2023 Ramos-Scharrón, C.E.; Alicea-Diaz, E.E.; Figueroa-Sánchez, Y.; **LaFevor, M.C.**; McLaughlin, P.; MacDonald, L.H.; Reale-Munroe, K.; Thomaz, E.L.; Viqueriera-Ríos, R. Three decades of road and trail runoff and erosion work in the Northeastern Caribbean: A research program perspective. *Journal of the American Society of Agricultural and Biological Engineers* 66(1): 35-45. [DOI:10.13031/ja.15078](#)
- 2023 Azaeez, O.; Henderson-Mitchell, R. J.; **LaFevor, M. C.**; Gregg, A. Socioeconomic predictors of access to improved water sources, sanitation facilities, and household water treatment in Nigeria. *Journal of Water, Sanitation & Hygiene for Development* 13(11): 875-884. [DOI: 0.2166/washdev.2023.169](#)
- 2022 **LaFevor, M. C.** Crop species production diversity enhances revenue stability in low-income farm regions of Mexico. *Agriculture* 12(11): 1835. [DOI:10.3390/agriculture12111835](#)
- 2022 **LaFevor, M. C.** Characterizing agricultural diversity with policy-relevant farm typologies in Mexico. *Agriculture* 12(9): 1315. [DOI:10.3390/agriculture12091315](#)
- 2022 **LaFevor, M. C.** Spatial and temporal changes in crop species production diversity in Mexico (1980-2020). *Agriculture* 12(7): 985. [DOI:10.3390/agriculture12070985](#). **Cover Feature Paper.**
- 2022 **LaFevor, M. C.** and Pitts, A. K. Irrigation increases crop species diversity in low-diversity farm regions of Mexico. *Agriculture* 12(7): 911. [DOI:10.3390/agriculture12070911](#) **Editor's Choice Article**
- 2021 **LaFevor, M. C.** and Ramos-Scharrón, C. E. Effects of hillslope trenching on surface water infiltration in subalpine forested catchments. *Hydrology* 8(4): 147. [DOI:10.3390/hydrology8040147](#)
- 2021 **LaFevor, M. C.**, Ponette-González, A. G., Larson, R., Mungai, L. Spatial targeting of agricultural support programs in Mexico: Indicator-based assessment of coverages and leakages. *Land* 10(7): 740. [DOI:10.3390/land10070740](#) **Editor's Choice Article**

- 2021 **LaFevor, M. C.**, Frake, A. N. and Couturier, S. (2021) Targeting irrigation expansion to address sustainable development objectives: A regional farm typology approach. *Water* 13(17): 2393. [DOI:10.3390/w13172393](https://doi.org/10.3390/w13172393)
- 2021 **LaFevor, M.C.** Geography: Mexico (review essay). In *Handbook of Latin American Studies: Social Sciences No.75*, p. 122-133. (ed.) T. North. Hispanic Division, Library of Congress. Austin: University of Texas Press. [ISBN:978-1-4773-2278-9](https://doi.org/10.1017/9781477322789)
- 2020 **LaFevor, M.C.** and Magliocca, N. Farmland size, chemical fertilizers, and irrigation management effects on maize and wheat yield in Mexico. *Journal of Land Use Science* 15(4): 532-546. [DOI:10.1080.00167428.2020.1800409](https://doi.org/10.1080/00167428.2020.1800409)
- 2020 Weber, J. and **LaFevor, M. C.** Exploring Remnant Landscapes of Nevada's Arrowhead Trail. *Geographical Review* 111(3): 437-457. [DOI:10.1080/00167428.2020.1800409](https://doi.org/10.1080/00167428.2020.1800409)
- 2018 Ramos-Scharrón, C. E. and **LaFevor, M. C.** Effects on forest roads in runoff generation in low-order ephemeral streams. *Water Resources Research* 54(11): 8613-8631. [DOI:10.1029/2018WR023442](https://doi.org/10.1029/2018WR023442)
- 2018 Alexander, S., Bishop, L., Budden, A., Cox, M., Crosas, M., Game, E., Geary, J., Hahn, C., Hardy, D., Johnson, J., Karcher, S., **LaFevor, M.C.**, Motzer, N., Pinto da Silva, P., Pittman, J., Randell, H., Silva, J., Smith, J., Smorul, M., Strasser, C., Strawhacker, C., Stuhl, A, Weber, N., Winslow, D. *Qualitative data sharing and re-use for socio-environmental systems research: A synthesis of opportunities, challenges, resources and approaches*. SESYNC White Paper. [DOI:10.13016/M2WH2DG59](https://doi.org/10.13016/M2WH2DG59).
- 2018 **LaFevor, M. C.**, Cissell, J., Misfeldt, J. Agave Cultivation, Terracing, and Conservation in Mexico. *FOCUS on Geography* 61(1). [DOI:10.21690/foge/2017.61.1f](https://doi.org/10.21690/foge/2017.61.1f)
- 2018 **LaFevor, M. C.**, Review of *Agrarian Crossings: Reformers and the Remaking of the US and Mexican Countryside* (Princeton University Press, 2017) by Tore C. Olsson. In *Journal of Historical Geography* 60(1). [DOI:10.1016/j.jhg.2018.02.011](https://doi.org/10.1016/j.jhg.2018.02.011)
- 2017 **LaFevor, M. C.** and Butzer, E. K., Medicinal Snow as a Public Good: Indigenous Communities, Merchants, and Justice in Colonial Veracruz, Mexico. *Journal of Latin American Geography* 16(3): 7-28. [DOI:10.1353/lag.2017.0048](https://doi.org/10.1353/lag.2017.0048)
- 2017 **LaFevor, M. C.**, Review of *City on Fire: Technology, Social Change, and the Hazards of Progress in Mexico City, 1860-1910* (University of Pittsburg Press, 2016) by Anna Rose Alexander. In *Journal of Latin American Geography* 16(2): 191-193. [DOI:10.1353/lag.2017.0035](https://doi.org/10.1353/lag.2017.0035)
- 2016 Ramos-Scharrón, C. E. and **LaFevor, M. C.** The Role of Unpaved Roads as Active Source Areas of Precipitation Excess in Small Watersheds Drained by Ephemeral Streams in the Northeastern Caribbean. *Journal of Hydrology* 533: 168-179. [DOI:10.1016/j.jhydrol.2015.11.051](https://doi.org/10.1016/j.jhydrol.2015.11.051)

- 2015 Suding, K., Higgs, E., Palmer, M., Callicott, J. B., Anderson, C. B., Baker, M., Gutrich, J. J., Hondula, K. L., **LaFevor, M. C.**, Larson, B. M., Randall, A., Ruhl, J. B., Schwartz, K. Z. Committing to Ecological Restoration: Efforts Around the Globe Need Legal and Policy Clarification. *Science* 350(6712): 8-10. [DOI:10.1126/science.aaa4216](https://doi.org/10.1126/science.aaa4216)
- 2015 **LaFevor, M. C.**, Environmental Concerns Facing the U.S. and Mexico: An International Perspective. In *Neighborly Adversaries: Readings in U.S.-Latin American Relations, 3<sup>rd</sup> Edition*. Michael J. LaRosa and Frank O. Mora, eds. (Rowman and Littlefield): 265-276. [ISBN:978-1-4422-2645-6](https://doi.org/10.1111/j.1931-0846.2012.00143.x)
- 2014 Hudson, P. F. and **LaFevor M. C.**, (guest editors) Management and Monitoring of Land Degradation and Environmental Change. *Journal of Environmental Management* 138: 1-96. [DOI:10.1016/j.jenvman.2013.11.019](https://doi.org/10.1016/j.jenvman.2013.11.019)
- 2014 **LaFevor, M. C.**, Restoration of Degraded Agricultural Terraces: Rebuilding Landscape Structure and Process. *Journal of Environmental Management* 138: 32-42. [DOI:10.1016/j.jenvman.2013.11.019](https://doi.org/10.1016/j.jenvman.2013.11.019)
- 2014 Hudson, P. F., **LaFevor, M. C.**, *Introduction: Managing and Monitoring Human Impacts on Landscapes for Environmental Change and Sustainability*, In P. F. Hudson and M. C. LaFevor (guest eds) special issue of the *Journal of Environmental Management* 138: 1-3. [DOI:10.1016/j.jenvman.2013.11.019](https://doi.org/10.1016/j.jenvman.2013.11.019)
- 2014 **LaFevor, M. C.**, Review of *Estudio Costero del Suroccidente de México* (CIGA-UNAM, 2013) by Donald D. Brand. In *The AAG Review of Books* 2(3): 113-115. [DOI:10.1080/2325548X.2014.919158](https://doi.org/10.1080/2325548X.2014.919158)
- 2014 **LaFevor, M. C.**, Review of *A Land Between Waters: Environmental Histories of Modern Mexico* (University of Arizona Press, 2013) edited by Christopher R. Boyer. In *Journal of Historical Geography* 43: 187. [DOI:10.1016/j.jhg.2013.10.019](https://doi.org/10.1016/j.jhg.2013.10.019)
- 2013 Hudson, P. F., Sounny-Slitine, A., **LaFevor, M. C.**, A New Longitudinal Approach to Assess Hydrologic Connectivity: Embanked Floodplain Inundation along the Lower Mississippi River. *Hydrological Processes* 27: 2187-2196. [DOI:10.1002/hyp.9838](https://doi.org/10.1002/hyp.9838)
- 2012 **LaFevor, M. C.**, Building a Colonial Resource Monopoly: The Expansion of Sulphur Mining in New Spain (1600-1820). *Geographical Review* 102(2): 202-224. [DOI:10.1111/j.1931-0846.2012.00143.x](https://doi.org/10.1111/j.1931-0846.2012.00143.x)  
**[\\*Recipient of the Wrigley-Fairchild Prize from the American Geographical Society](#)**
- 2012 **LaFevor, M. C.**, Sulphur Mining on Mexico's Popocatépetl Volcano (1820-1920): Origins, Development, and Human-Environmental Challenges. *Journal of Latin American Geography* 11(1): 79-98. [DOI:10.1353/lag.2012.0015](https://doi.org/10.1353/lag.2012.0015)

- 2010 **LaFevor, M. C.**, Review of *Cartographic Encounters: Indigenous People and the Mapping of the New World* (Reaktion Books, 2009) by John Rennie Short. In *Journal of Latin American Geography* 9(2): 183-185. [DOI:10.1353/lag.2010.0007](https://doi.org/10.1353/lag.2010.0007).
- 2010 **LaFevor, M. C.**, Mountains and Creative Mexican Maps: From Seminar to Survey. *Portal: LLILAS Annual Review* 5: 28-31. [DOI:10.15781/T20V8B00V](https://doi.org/10.15781/T20V8B00V)

---

### RESEARCH GRANTS & FELLOWSHIPS

- 2026-2023 National Science Foundation (HEGS), (\$360,870), M. LaFevor (PI at 100%), w Co-PI, Carlos E. Ramos-Scharrón (subaward)
- 2026-2024 National Oceanic and Atmospheric Association (NOAA), (\$727,633), M. LaFevor (Co-PI, Institutional PI at 25% = \$181,908)
- 2025 LLILAS (UT Austin), (\$10,000), M. LaFevor (Co-PI at 10% = \$1000) w Carlos E. Ramos-Scharrón (PI), UT Austin.
- 2024-2021 Distinguished Teaching Fellowship, College of Arts & Science, U of Alabama, (\$9000)
- 2023-2021 National Geographic Society, (\$30,000), M. LaFevor (PI at 100%).
- 2022-2019 Anthropology of Rural Agricultural Communities (\$24,803), Mary Street Jenkins Foundation; U.S. Department of State. M. LaFevor (PI at 100%).
- 2021-2018 Sustainable Development Goals Fellows Program (\$1,134,365), US Department of State (WHE). M. LaFevor (Institutional PI at 36% = \$408,371) (awarded; returned).
- 2019-2017 British Library Endangered Archives Programme (£33,729/\$41,803); D. LaFevor (PI); M. LaFevor (Co-PI)
- 2018-2017 Research Grants Committee; University of Alabama (\$6000)
- 2016-2014 Postdoctoral Fellowship, National Socio-Environmental Synthesis Center Synthesis Center (SESYNC), University of Maryland (\$119,000)
- 2015 British Library Endangered Archives Programme (£3,731/\$5,727); D. LaFevor (PI); M. LaFevor (Co-PI)
- 2012-2011 Fulbright-Hays, IIE/Mellon Foundation (\$22,200)
- 2012-2011 Mike Hogg Endowed Fellowship, Graduate School, UT Austin (\$27,772)
- 2011 National Science Foundation, AAG Grant to IGUG, Santiago, Chile (\$1,000)
- 2010 Graduate Dean's Prestigious Fellowship Supplement, UT Austin (\$1,000)
- 2011-2010 National Science Foundation, DDRI grant #1031676 (\$12,000)
- 2011-2010 David L. Boren Fellowship, IIE/NSEP (\$18,100)
- 2010 Faculty Sponsored Dissertation Improvement Grant, LLILAS (\$2,000)
- 2009 Mexican Center Summer Research Grant, LLILAS (\$2,000)
- 2009 Robert Veselka Fellowship, Dept. of Geography & the Environment (\$1,200)
- 2008 Professional Development Awards, 2008-14, COLA, UT Austin (\$2,230)
- 2007 Donald D. Brand Fellowship, Dept. of Geography & the Environment (\$800)
- 2008-2007 Pre-emptive Fellowship, UT Austin (\$13,500)
- 2003-2001 Rotary Foundation Ambassadorial Scholarship to Mexico (\$13,000)

---

## PUBLISHED ABSTRACTS & CONFERENCE PRESENTATIONS

- 2025 Field validation of SWOT-derived reservoir water levels in the southeastern U.S. (1<sup>st</sup> author) *American Geophysical Union*. Annual Meeting, New Orleans, LA.
- 2025 Evaluating fire impacts on water harvesting earthworks (WHE) in Izta-Popo National Park. (2<sup>nd</sup> author)(led by Ismail Olajide, PhD student) *American Geophysical Union*. Annual Meeting, New Orleans, LA.
- 2025 Evaluating the role of water harvesting earthworks on post-fire vegetation recovery. (2<sup>nd</sup> author)(led by Timothy Oyesode, PhD student) *American Geophysical Union*. Annual Meeting, New Orleans, LA.
- 2025 Evaluation of SWOT-derived lake products and development of lake hypsometric rating curves through the integration of SWOT, satellite altimetry, and satellite imagery. (6<sup>th</sup> author) *American Geophysical Union*. Annual Meeting, New Orleans, LA.
- 2025 Constructing a high-resolution reservoir dataset across the contiguous United States using Sentinel-1 SAR imagery. (9<sup>th</sup> author) *American Geophysical Union*. Annual Meeting, New Orleans, LA.
- 2025 Mapping and monitoring reservoir dynamics with a fine-tuned foundation deep learning model and time-series SAR data. (6<sup>th</sup> author) *American Geophysical Union*. Annual Meeting, New Orleans, LA.
- 2025 Examining water-harvesting earthworks in mountain protected areas of Latin America. *American Association of Geographers (AAG)*. Annual Meeting, Detroit, MI (1<sup>st</sup> author, presenter)
- 2024 Regional Changes in Crop Species Production Diversity in Mexico (1980-2020). *Conference of Latin American Geography (CLAG)*. San Juan, Puerto Rico (presentation). Jan. 3-7.
- 2024 Land, Forests & Fields. (Paper Session Chair). *Conference of Latin American Geography (CLAG)*. San Juan, Puerto Rico. Jan. 3-7.
- 2024 Drivers of crop species production diversity in Mexico (1980-2020). *American Association of Geographers (AAG)*. Annual Meeting, Honolulu, HI (presentation)
- 2024 Spatial-temporal assimilation of SWOT river observations using Graph Neural Network Deep Learning Technique. (2<sup>nd</sup> author) *American Geophysical Union*. Annual Meeting, Washington, D.C.
- 2023 Targeting irrigation expansion in southern Mexico. *Conference of Latin American Geography (CLAG)*. Tucson, AZ. (presentation)
- 2022 Farm typology approaches to targeting agricultural policy interventions. *American Association of Geographers (AAG)*. Annual Meeting, New York, NY. (presentation)(Zoom)
- 2021 Farmland size, agrochemicals and irrigation management effects on maize and wheat productivity in Mexico. *American Association of Geographers (AAG)*. Annual Meeting, Seattle, WA. (presentation)(Zoom)
- 2020 Hydroclimatic vulnerability and large-scale investments in rainfed farms in Mexico. *Abstracts, Conference of Latin American Geography (CLAG)*. Antigua, Guatemala. (presentation)(with Alexandra Ponette-González)
- 2018 Long-Term Socio-Environmental Systems (SES) Research: Qualitative and Quantitative Analysis of Ancient Documents. *Abstracts, Boundary Spanning: Advances in Socio-Environmental Systems Research. (SESYNC)*. Annapolis, MD, USA. (poster)

- 2018 Working with “Big” Archival Data in Mexico and Cuba. *Abstracts, Conference of Latin Americanist Geographers (CLAG)*. San José, Costa Rica. (presentation) (with David C. LaFevor)
- 2018 Digital Preservation and Dissemination of Cuban Archives: Opportunities and Challenges. *Abstracts, American Association of Geographers (AAG)*. Annual Meeting, New Orleans, LA, U.S.A. (presentation)(with David C. LaFevor)
- 2018 Uncovering the Arrowhead Trail: Identifying, Classifying, and Mapping Historic Landscapes of Transportation. *Abstracts, American Association of Geographers (AAG)*. Annual Meeting, New Orleans, LA, U.S.A. (with Joe Weber-first author) (presentation)
- 2017 Runoff Thresholds and Land-to-Marine Ecosystem Connectivity in a Dry Tropical Setting: St. John, US Virgin Islands. *Abstracts, American Geophysical Union*. (presentation) (with Carlos E. Ramos-Scharrón and Jeremiah Roy)
- 2017 Ridge to Reef Integrated Terrestrial, Marine and Geochemical Monitoring to Assess the Impact of Watershed Restoration on Marine Sediment Dynamics and Coral Reef Sedimentation in St. John, US Virgin Islands. *Abstracts American Geophysical Union*. (poster) (with Sarah C. Gray, Carlos E. Ramos-Scharrón, Gregg Brooks, Rebekka A. Larson, Marisa Swiderski, Stephen Cambell, and James Whinney)
- 2017 Global Changes in Agricultural Terracing Practices: Socio-Environmental Trends, Drivers, and Impacts (1966-2016). *Abstracts, American Association of Geographers (AAG)*. Annual Meeting, Boston, MA, U.S.A. (presentation)
- 2017 Digitizing Ecclesiastical Archives in Santa Clara, Cuba: Best Practices. *The British Libraries Endangered Archives Programme in Cuba*. Santa Clara, Cuba (presentation)
- 2017 Distribution of Medicinal Snow and Disease Ecology in Colonial Veracruz, Mexico. *Conference of Latin Americanist Geographers (CLAG) Annual Meeting*. New Orleans, LA, U.S.A. (presentation)
- 2017 A Panel to Remember Those We Have Lost: The Intellectual Legacy of Karl W. Butzer. *Conference of Latin Americanist Geographers (CLAG) Annual Meeting*. New Orleans, LA, U.S.A. (panelist)
- 2016 Watershed Runoff and Sediment Resuspension: Factors Affecting Turbidity and Sedimentation in Bays with Coral Reefs, St. John, USVI. *13<sup>th</sup> International Coral Reef Symposium (ICRS)*. Honolulu, HI, U.S.A. (poster)
- 2016 Using Restoration Ecology to Repair Degraded Agricultural Lands. *Abstracts, American Association of Geographers (AAG)*. Annual Meeting, San Francisco, CA, U.S.A. (presentation)
- 2015 From Maps to Archives and Back Again: Landscapes of Digitization. *Digital Humanities & the History of Slavery*. Vanderbilt University, Nashville, TN. U.S.A. (presentation)
- 2015 Watershed-Marine Linkages: Monitoring how Terrigenous Runoff and Wave-induced Resuspension affect Marine Sediment Dynamics in Bays with Coral Reefs, St. John, USVI. *American Geophysical Union*. Annual Meeting, San Francisco, CA, U.S.A. (with Stephen Campbell, Sarah C. Gray, James Whinney, Carlos Ramos-Scharrón, and Sean Campbell) (poster)
- 2015 Snow Harvesting in Colonial Mexico (From Ain to Bustamante: Papers in Honor of Elisabeth Butzer). *Abstracts, Association of American Geographers (AAG)*. Annual Meeting, Chicago, IL, U.S.A. (presentation)

- 2015 Role of Digital Humanities in Socio-Environmental Synthesis Research: A View from Environmental History. *Abstracts, Texas Digital Humanities Consortium*. University of Texas at Arlington (UTA), Arlington, Texas. (presentation)
- 2014 Restauración de las Laderas Montañosas de *Tepetate* con Tecnología Tradicional: Problemas y Posibilidades. *Abstracts, Ecología, Manejo y Conservación de los Ecosistemas de Montaña en México: Hacia la Articulación de la Ecología y la Dimensión Humana*. Universidad Veracruzana (INBIOTECA)(INECOL), Xalapa, México. (presentation)
- 2014 The Political Ecology of Gunpowder Production in Colonial Latin America. *Abstracts, Association of American Geographers (AAG)*. Annual Meeting, Tampa, FL, U.S.A. (presentation)
- 2014 Restoring Degraded Agricultural Lands: Key Structures and Processes. *Abstracts, Conference of Latin Americanist Geographers (CLAG)*. Panama City, Panama. (presentation)
- 2013 Terrace Restoration Programs in Tlaxcala, Mexico: Identifying the Historical Analogues. *Abstracts, Southwestern Association of American Geographers (SWAAG)*. Annual Meeting, Nacogdoches, TX, U.S.A. (presentation)
- 2013 The Role of Agave (Maguey) in Soil and Water Conservation in Tlaxcala, Mexico. *Abstracts, Association of American Geographers (AAG)*. Annual Meeting, Los Angeles, CA, U.S.A. (presentation)
- 2013 Three Network Models for Food Distribution in Mexican Cities. *Abstracts, Food, the City, and Innovation*. Annual Meeting, Austin, TX, U.S.A. (presentation)
- 2012 Visualizing Mexican Metepantle Terraces and Water Conservation. *Abstracts, Association of American Geographers (AAG)*. Annual Meeting, New York, NY, U.S.A. (poster)
- 2012 Estimating the Impact of Explosives on New Spain's Silver Bonanza: A Geographical Interpretation of Archival Data. *Abstracts, Conference of Latin Americanist Geographers (CLAG)*. Merida, México. (presentation)
- 2011 Metepantle Crop Terraces of Tlaxcala, Mexico: Implications for Green Water Conservation and Sustainability. *Abstracts, International Geographic Union (IGU)*. Annual Meeting, Santiago, Chile. (presentation)
- 2011 Land Degradation and Change in Floodplain Water Bodies along the Lower Mississippi River in Response to Flood Control. *Abstracts, International Geographic Union (IGU)*. Annual Meeting, Santiago, Chile (with P. F. Hudson and A. Sounny-Slitine) (presentation)
- 2011 Mapping the Natural Resource Monopolies of New Spain, *Abstracts, Southwestern Association of American Geographers (SWAAG)* Annual Meeting, Austin, TX, U.S.A. (poster)
- 2010 The Ecology of Gunpowder Production in Colonial Mexico (1519-1819). *Abstracts, Association of American Geographers (AAG)*. Annual Meeting, Washington D.C., U.S.A. (presentation)
- 2009 Industrial Sulphur Mining on Mexico's Popocatepetl Volcano. *Abstracts, Association of American Geographers (AAG)*. Annual Meeting, Las Vegas, NV, U.S.A. (poster)
- 2009 Sulphur Mining on Mexico's Popocatepetl Volcano: Legend, Landscape, and Industry. *Abstracts, Conference of Latin Americanist Geographers (CLAG)*. Granada, Nicaragua. (presentation)

- 2008 An Ecology of Convergence: Volcanic Hazards and National Park Expansion in Xalitzintla, Mexico. *Abstracts, Association of American Geographers (AAG). Annual Meeting*, Boston, MA. U.S.A. (poster)
- 2008 Sulphur Mining on Mexico's Popocatepetl Volcano: Economy and Scale. *Abstracts, Southwestern Association of American Geographers (SWAAG)*. San Marcos, TX, U.S.A. (poster)

---

### PROFESSIONAL SERVICE, DEVELOPMENT, & AWARDS

- Current-2025 **Faculty Affiliate**, Institute for Social Science Research (ISSR), UA
- Current-2022 **Faculty Affiliate**, Alabama Water Institute (AWI), UA
- Current-2025 **Undergraduate Director**, Dept. of Geography & the Environment, UA
- Current-2024 **Faculty Senator**, UA
- Current-2024 **Member, Academic Program Review Council (APRC), Committee Chair (2026)**, UA
- Current-2024 **Member, Research & Service Committee** of UA Faculty Senate
- Current-2024 **Chair, Faculty Council (FC) Committee**, Dept. of Geography, UA
- Current-2023 **Member, Tenure & Promotion Committee**, College of Arts & Sciences, UA
- Current-2022 **Review Editor**, *Frontiers in Sustainable Food Systems*
- Current-2019 **Executive Committee**, Latin America, Caribbean, & Latinx Studies Program
- Current-2024 **Faculty Mentor**, Department of Geography & Environment, UA
- 2025-2024 **Chair, Tenure & Promotion Committee**, Dept. of Geography, UA
- 2024-2021 **Distinguished Teaching Fellowship**, College of Arts & Sciences, UA
- 2024-2023 **Scholarship Committee**, College of Arts & Sciences, UA
- 2024 **RCAP Faculty Hiring Committee**, Dept. of Geography, UA
- 2024 **Dean's Postdoc Hiring Committee**, Dept. of Geography, UA
- 2024-2021 **Faculty Council (FC) Committee**, Dept. of Geography, UA
- 2024-2020 **Contributing Editor**, *Handbook of Latin American Studies*, Library of Congress
- 2024 (x4), '22 **Panelist**, National Science Foundation (7 panels, 5 different programs) '18, '19
- 2022-2019 **Organizer & Director**, UA in Mexico: Agriculture & Mountains (Anthropology of Rural Agricultural Communities), Education Abroad Program, UA.
- 2022-2018 **Organizer & (Co)Director**, UA in Costa Rica: Understanding Tropical Environments, Education Abroad Program, UA
- 2021-2018 **Research Grants Committee**, UA
- 2020-2017 **Board member**, Conference of Latin American Geography
- 2025-2020 **Reviewer**, *Agricultural Water Management*, *Agriculture*, *Annals of Regional Science*, *Climate Risk Management*, *Ecosystem Services*, *Focus on Geography (3)*, *Frontiers in Sustainable Food Systems (5)*, *Geographical Review*, *International Journal of Agronomy, Irrigation & Drainage*, *Journal of Environmental Management (2)*, *Journal of Historical Geography*, *Journal of Land Use Science*, *Journal of Latin American Geography (3)*, *Nature Sustainability*, *Perspectives in Ecology and Conservation*, *Sustainability*, *Water (2)*
- 2019 **Finance Committee**, Conference of Latin American Geography (formerly Conference of Latin Americanist Geographers)
- 2019 **Reviewer**, *Journal of Environmental Management*

- 2018 **Chair, Hiring Committee**, Full-Time Teaching Instructor, Department of Geography, UA
- 2021-2018 **Colloquium Committee (Chair)**, Organized Colloquia Series, Department of Geography, UA
- 2018 **Session Organizer**, Research Approaches in Human Geography, Conference of Latin Americanist Geographers (CLAG), San José, Costa Rica.
- 2018 **Reviewer**, *Journal of Latin American Geography*, *Geographical Review*, *FOCUS on Geography*
- 2017 **Co-Chair, Hiring Committee**, Assistant Professor (Political Ecology), Department of Geography, UA
- 2017 **Reviewer**, *Journal of Ethnobiology*, *Land Degradation and Development* (2)
- 2017 **Interviewed**, by the Associated Press as Co-Director of the Cuban Archives Digitization Project (with David C. LaFevor, UT Arlington) ([link](#)). Stories about collaborative research project in over 30 news publications including *New York Times*, *Washington Post*, *Huffington Post*, *La Jornada*, and other national and internationally based print and digital media.
- 2017 **Reviewer**, *Journal of Environmental Management* (2)
- 2017 **Interviewed and Quoted** in “One Document at a Time: Professor helps preserve Cuban History” *The Shorthorn: UT Arlington’s Main News Source Since 1919*. By Jamil Oakford. [link](#)
- 2017-2016 **Hiring Committee Member**, Full Professor (Transportation Modeling), Department of Geography, University of Alabama.
- 2017-2015 **Co-Director** (with David C. LaFevor), *Creating a digital archive of ecclesiastical documents from Santiago de Cuba, Bayamo, Trinidad, Camagüey, and Baracoa, Cuba*. Funded by the British Library Endangered Archives Programme. Cuba
- 2016 **Wrigley-Fairchild Prize**, *Awarded every three years by the American Geographical Society to recognize the work of young and mid-career scholars*. (\$1,000). [link](#)
- 2016 **Hiring Committee(s)**, Assistant Professor (Food-Energy-Water Nexus) and Assistant Professor (Political Ecology), Department of Geography, UA
- 2016 **Colloquium Committee**, Department of Geography, University of Alabama
- 2016 **Reviewer**, *Hydrological Processes*
- 2016 **Reviewer**, *Journal of Environmental Management*
- 2016 **Treasurer, Secretary, Webmaster**, History of Geography Specialty Group of the American Association of Geographers (AAG).
- 2016-2013 **Co-Director** (with Gregory Knapp and Guntram Herb), History of Geography Specialty Group of the Association of American Geographers (AAG).
- 2015 **Workshop**, *The Chesapeake Project on Sustainability*. Spring. University of Maryland, College Park, MD. USA.
- 2015 **Workshop**, *Teaching Socio-Environmental Synthesis with Case Studies*. Spring Session (Jan.) and Summer Session (July). National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD, U.S.A.
- 2015 **Reviewer**, panel on SESYNC Postdoctoral Immersion Program
- 2015 **Reviewer**, *Moravian Geographical Reports*, *The Holocene*
- 2014 **Reviewer**, National Science Foundation (Geography & Spatial Sciences)
- 2014 **Reviewer**, *Conservation Biology*, *Journal of Latin American Geography*

- 2014 **Reviewer**, National Science Foundation, Geography and Spatial Sciences
- 2014 **Guest Editor** (with Paul F. Hudson), *Journal of Environmental Management*
- 2013 **Graduate Achievement Award**: Given for Excellence in Research, Publication, and Institution Building (\$150). Geography & the Environment, UT Austin.
- 2012 **Copy Editor**. *Colombia: A Concise Contemporary History*, by Michael J. LaRosa and Germán R. Mejía. Plymouth: Rowman & Littlefield.
- 2011 **Reviewer**, *Land Degradation and Development*
- 2011 **Field Guide**, Rare Books and Manuscripts Room of the Benson Latin American Collection, Southwestern Association of American Geographers Annual Meeting (SWAAG). November. Austin, Texas, U.S.A.
- 2010 **Graduate Leadership Award**: Given for leadership in departmental activities (\$150). Department of Geography & the Environment, UT Austin.
- 2010 **Fieldtrip Co-Organizer** (with Paul. F. Hudson) Mississippi and Atchafalaya Rivers Basins to investigate floodplains, levees, and batture lands with U.S. Army Corps of Engineers (US-ACE). February. Louisiana, U.S.A.
- 2009 **President**, Graduate Association of Geography Students (GAGS), UT Austin.
- 2008 **Media Coordinator**, *Fluvial Deposits and Environmental History: Geoarchaeology, Paleohydrology, and Adjustment to Environmental Change*. 39<sup>th</sup> Annual Binghamton Geomorphology Symposium. October 10-11. Austin, Texas.

ORGANIZATIONS AND AFFILIATIONS: American Geographical Society (AGS), Association of American Geographers (AAG), Commission on Land Degradation and Desertification (COMLAND), Conference of Latin American Geography (CLAG), American Geophysical Union (AGU)

---

## TEACHING EXPERIENCE

The University of Alabama, Tuscaloosa.

- **Research Methods & Traditions in Geography (GY500)**, Fall 2020-2024
- **Environment & Society (GY453/553)**, Fall 2016-18, Spring 2021-2026
- **World Regional Geography (GY105)**, Spring &/or Fall, 2017-2026
- **Geography of Latin America (GY345)**, Spring 2019-2022, Fall 2025

The University of Maryland, College Park

- **Socio-Environmental Synthesis & Sustainability Research**, Spring 2016

The University of Texas at Austin

- **Conservation**, *Assistant Instructor*, Fall 2012
- **Landscapes of Mexico and the Caribbean**, *Teaching Assistant*, 2007–08, Fall 2013
- **Field Techniques**, *Teaching Assistant*, 2007–08, Fall 2013
- **The Natural Environment**, *Teaching Assistant*, Spring 2013
- **Watershed Management and Historical Geography of the American Southwest**, *Teaching Assistant*, Spring 2009
- **Environmental GIS**, *Teaching Assistant*, Fall 2008
- **Vegetation Ecology**, *Teaching Assistant*, Spring 2008
- **Soils**, *Teaching Assistant*, Spring 2008

- **Environment, Development, and Food Production**, *Teaching Assistant*, 2007–08
- 

### INVITED LECTURES & TALKS

- 2025 *Water Harvesting in High Mountain Environments in Latin America*, UA, Tuscaloosa, For “LAS 401, Latin American, Caribbean, and Latinx Studies, Sarah Moody” (2/24/25)
- 2025 *Water Management in Latin America: Wetting the Dry and Drying the Wet*, UA, Tuscaloosa, For “Invited Faculty Lecture Series”, LACLS (2/11/25)
- 2024 *Conservation and Agriculture in Mexico*, UA, Tuscaloosa, For “LAS 401, Latin American, Caribbean, and Latinx Studies, Sarah Moody” (2/27/24)
- 2024 *Mexican Archives and Qualitative Data Analysis*, UA, Tuscaloosa, For “GY Qualitative Geography, Jared Margulies” (4/1/24)
- 2023 *Political Ecology, Conservation and Control in Highland Mexico*, UA, Tuscaloosa. For “GY461, Political Ecology, Jared Margulies” (10/16, 10/18)
- 2023 *Agricultural geography and research in Latin America*, UA, Tuscaloosa. For “LAS 401, Latin American, Caribbean, and Latinx Studies, Sarah Moody” (1/25/23)
- 2022 *Agroecological approaches to agricultural slope management*, University of Maryland, College Park. For “Internship in Agroecology, PLSC 399, Alison Schulenburg”. (Zoom)
- 2022 *Diverse Opportunities for Geographical Research in Mexico*, University of Alabama, Tuscaloosa. For “LAS 401, Latin American, Caribbean, and Latinx Studies, Sarah Moody”.
- 2021 Guest lectures (n=3) on Middle and South America for Leah Mungai, GY105 World Regional Geography, University of Alabama.
- 2021 *Anthropogeomorphology and Cross-slope Earthworks in Mexico*, University of North Texas, Denton. For “Geosystems, Environment, and Society, Alexandra Ponette-González”. (Zoom)
- 2018 *Impacts of Agricultural Terraces on Water Conservation: Estimating Overland Flow on La Malinche Volcano (Tlaxcala, Mexico)*. Poster presentation, *Faculty Research Day*. University of Alabama, Tuscaloosa, AL. U.S.A., 4/17
- 2016 *Social Welfare and Environmental Justice in Mexico: National Water Development Programs*. Invited speaker, *Social Welfare Policy and Services* taught by Bethany Womack, Department of Social Work, University of Alabama, Tuscaloosa, AL. U.S.A., 12/1.
- 2016 *Global Synthesis of Agricultural Terracing: Socio-Environmental Trends, Drivers, and Impacts*. Invited speaker, *SESYNC Graduate Student Symposium on Proposal Submissions*. National Socio-Environmental Synthesis Center (SESYNC), Annapolis, MD, U.S.A., June 13.
- 2015 *Teaching Graduate Students by Doing Socio-Environmental Synthesis: The Case of Soil Erosion in Latin America*. Invited speaker, *Teaching Socio-Environmental Synthesis with Case Studies*. SESYNC, Annapolis, MD, U.S.A., July 29.
- 2015 *Place, Presentism and Ignorance in the History of Geography*. Invited panelist, *Annual Meeting of Association of American Geographers*, Chicago, IL, U.S.A., April 22.
- 2014 *Conservación de Suelos en el Altiplano Mexicano con Tecnología Tradicional*. Presented for seminar, *Conservación de Suelos*, Universidad de Veracruz – Acayucan, Mexico, Nov. 20.

- 2014 *Writing the NSF-DDRIG: Past Experiences*. Presented (talk) for Research in Geography, taught by Rebecca Torres, Dept. of Geography and the Environment. UT Austin, April 3.
- 2014 *Conservation Engineering and Agricultural Terracing in the Puebla-Tlaxcala Valley, Mexico*. Presented for series, The Latin American Countryside Past and Present in Dept. of Geography at University of North Texas, Denton. March 21.
- 2013 *Landscapes and Regions*. Presented for Landscapes of Mexico and the Caribbean, taught by William E. Doolittle. UT Austin, August 29.
- 2013 *Soil Moisture Retention*. Presented for Environment, Development, and Food Production, taught by William E. Doolittle. UT Austin, April 5.
- 2013 *Writing the NSF - DDRI Grant Application: How to Prepare, Execute, and Retool Your Strategy*. Presented (discussion) for Research in Geography, taught by Rebecca Torres. Dept. of Geography and the Environment, UT Austin, March 28.
- 2013 *The Manufacture and Distribution of Explosives in Colonial Mexico (...and why I enjoy archival research)*. Presented for the colloquium series of the Department of Geography and the Environment, UT Austin, Feb. 29.
- 2012 *Mexican Borders and Borderlands in Theory and Practice*. Presented for Infinite Border, taught by Michael J. LaRosa, Rhodes College, Memphis, TN, January 24.
- 2011 *Suggestions for Grant-Seeking Undergraduates*. Presented at Conference on Undergraduate Funding at Rhodes College, Memphis, TN., December 18.
- 2010 *Historical Development of Floodplain "Borrow Pits" at the Smithland Plantation, Louisiana*. Presented "in the field" for Watershed Management, taught by Paul Hudson. UT Austin, March 1.
- 2009 *Eastern Mexico: Hydrology*. Presented for Landscapes of Mexico and the Caribbean, taught by William E. Doolittle. UT Austin, October 19.
- 2008 *Water Harvesting on Mexico's Central Volcanic Axis*. Presented for Environment, Development, and Food Production, taught by William E. Doolittle, UT Austin. April 23.

---

### RELATED FIELD RESEARCH

- 2025 (Feb.3-7, May 5-19, Aug.2-8) Fieldwork monitoring and instrumentation in Izta-Popo National Park and Protected Area, Pico de Orizaba National Park and Protected Area.
- 2025 (July 3-ongoing) Instrumentation and monitoring of water level changes in southeastern US reservoirs (Mississippi, Alabama, Georgia)
- 2024 (June-July, Oct.) Fieldwork & mapping, Izta-Popo National Park and Protected Area; Pico de Orizaba National Park and Protected Area; San Isidro Canoas Altas, Puebla.
- 2023 (June-July) Soil sampling, Guelph permeameter fieldwork, and UAV mapping of alpine slopes in Pico de Orizaba National Park and Protected Area (ANP)
- 2022 (May) Exploration of alpine meadows in Izta-Popo National Park and Protected Area in Puebla and Mexico States
- 2020 (January) Investigation of unpaved road runoff and hydrologic connectivity in Alajuela Province Costa Rica (also in 2022)
- 2019 (July 22-29) Fieldwork on irrigated agriculture in Jordan River Valley, Israel.
- 2018 (July 21-August 5) Fieldwork on saturated hydraulic conductivity on forest roads, natural surfaces, and infiltration ditches (Malinche National Park, Tlaxcala, Mexico) and hardpan surfaces on semi-terraces in Teacalco with James Misfeldt and Carlos E. Ramos-Scharrón. UAV mapping of forests, agricultural fields, and Popo-Izta National Park.

- 2017 (July 20-August 8) Fieldwork on saturated hydraulic conductivity of forest roads, natural surfaces, and infiltration ditches in Malinche National Park, Tlaxcala, Mexico with Jordan Cissell (July 23-30).
- 2017 (January) Investigation of north-central Cuba, Santa Clara and Remedios areas for irrigated agriculture and agro-biodiversity of hedgerows in smallholder farms. Archival investigation in Santa Clara with David C. LaFevor of UT Arlington
- 2015 (July) Archival investigation and creation of a digital registry of documents from ecclesiastical sources from Trinidad, Camagüey, Santiago de Cuba, Bayamo, Baracoa, and Havana, Cuba. Investigation of sugar, coffee, tobacco, and mango agriculture and arboriculture. Cuba.
- 2014 (Aug.) Installation of stream gauging stations; measuring of saturated hydraulic connectivity with Guelph permeameter on unpaved road surfaces and soils on forested hillslopes at 40 locations (with Carlos E. Ramos-Scharrón). Funded by NOAA's Coral Reef Restoration group through partnership with University of San Diego and the Island Resources Foundation.
- 2013 (Aug.) Installation of crest gauges, surveys of water control structures, and other fieldwork on terrestrial runoff and coral reef response in St. John, Virgin Islands, U.S.A. (with Carlos E. Ramos-Scharrón). Funded by NOAA's Coral Reef Restoration group through partnership with University of San Diego and the Island Resources Foundation.
- 2011 (Feb.) – 2012 (Jan.) Dissertation fieldwork on agricultural fields, forests, and rivers in Tlaxcala and Puebla states. Archival research at Archivo General de la Nación (AGN) in Mexico City. Reconnaissance of abandoned sulphur mines in Los Azufres, Michoacán. México.
- 2011 (Nov.) Investigation of the impacts of a tsunami (2010) on coastal geomorphology in Chile; survey of fluvial geomorphology in Andean highlands near Chilean/Argentinian border (with Inbar Moshe and Paul F. Hudson). IGU Annual Meeting in Santiago, Chile.
- 2010 (May–Oct.) Field research on terrace agriculture in northern Tlaxcala, Mexico. Archival research in the Archivo General de la Nación. Mexico City, México.
- 2010 (Feb.) Field investigation of Mississippi River hydrologic engineering features (with Paul F. Hudson and Edgardo M. Latrubesse). Louisiana, U.S.A.
- 2009 (Nov.) Archival research at the Archivo General de la Nación in Mexico City on colonial gunpowder, sulphur mining, and saltpeter production. México.
- 2009 (July–Aug.) Field surveys and soil moisture analysis of *metepantle* semi-terraces in northern Tlaxcala, México.
- 2009 (Jan.) Preliminary investigation of *zanjas trincheras* earthworks in Tlaxcala, Mexico for dissertation ideas. Investigation of colonial aqueducts in Veracruz, Tlaxcala, Puebla, Oaxaca, and Mexico City (with William E. Doolittle). México.
- 2009 (Jan.) Investigation of caves, volcanoes, and woodlands in Selva Negra, Matagalpa, Leon, and Granada. CLAG Meeting. Nicaragua.
- 2008 (Aug.) Observations of ongoing excavations at Teposcolula, Oaxaca (with project director Ronald M. Spores). México.
- 2008 (May–July). Archival research and fieldwork in Amecameca, México on the “fabricas de agua” conservation strategies (Popocatépetl, La Malinche, and Pico de Orizaba). México.

- 2008 (March). Investigation of colonial aqueducts in Matlala and Ciudad Serdán; surveys of soil and water conservation structures in the Popocatepetl-Iztaccihuatl National Park (with William E. Doolittle). México.
- 2007 (Dec.)–2008 (Jan.) Field observations and interviews in Xalitzintla, Puebla on responses to volcanic hazards, natural resource management, and conservation practices among indigenous groups. México.
- 2005 (May). Interviews and field investigations on material culture changes associated with emigration remittances in Ihuatzio, Michoacán, México.
- 2001 (Aug.)–2003 (May). Master's degree course work and completion at Universidad de las Américas-Puebla. Extensive travel in western, central, southern, and Yucatán, México. Island exploration and tour of Universidad de Havanna, Cuba. Landscaping, light carpentry work, and extensive travel in Alaska, U.S.A.
- 1998 (May–June). Language and field studies in central and western Michoacán. Centro Mexicano Institucional. Morelia, México.