

NATHAN S GILL

Department of Natural Resources Management
Texas Tech University
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EDUCATION

Clark University, Worcester, MA
Ph.D., Geography, 2018

Clark University, Worcester, MA
M.A., Geography, 2016

Brigham Young University, Provo, UT
B.S., Geographic Information Systems, 2013
Minor, Environmental Science
Valedictorian

APPOINTMENTS

- 2025— **Texas Tech University**, Department of Natural Resources Management, Associate Professor
- 2019-2025 **Texas Tech University**, Department of Natural Resources Management, Assistant Professor
- 2018-2019 **University of Wisconsin-Madison**, Department of Integrative Biology, Postdoctoral Fellow
- 2016-2018 **USGS Pacific Island Ecosystems Research Center**, NSF GRIP, Fellow
- 2015 **Clark University**, Graduate School of Geography, Adjunct Professor
- 2012 **NASA**, NASA Ames Research Center/SSAI, Research Consultant

PEER-REVIEWED PUBLICATIONS (*GRADUATE ADVISEE; †EQUALLY-CONTRIBUTING LEAD AUTHORS)

- 2025 Schwilk, D., A. Alam, **N.S. Gill**, B.R. Murray, R.H. Nolan, S. Ondeï, G.L.W. Perry, A.M.S. Smith, D.M.J.S. Bowman, A. Fidelis, P. Jaureguiberry, I.O. Menor, B.H.P. Rosado, H. Roland, M. Yebra, S.G. Yelenik, and T.J. Curran. From plant traits to fire behavior: scaling issues in flammability studies. *American Journal of Botany*, 112: e70040. DOI:10.1002/ajb2.70040

*Lechnar, C.V., *G. Gyan, R. Puckett, R.D. Cox, B. Grisham, and **N.S. Gill**. 2025. Post-fire herbicide application reduces Macartney rose in Attwater's prairie-chicken habitat. *Rangeland Ecology and Management*, 98:237-245. DOI:10.1016/j.rama.2024.06.017

- 2023 Davis, K.T., et al. (including **N.S. Gill**; 63 authors). 2023. Reduced fire severity offers near-term buffer to climate-driven declines in conifer resilience across the western United States. *Proceedings of the National Academy of Sciences (PNAS)*, 120:e2208120120 DOI:10.1073/pnas.2208120120
- Gill, N.S.**, J. Stallman, L. Pratt, J. Lewicki, T. Elias, P. Nadeau, and S. Yelenik. 2023. Out of the frying pan and into the fire: effects of volcanic heat and invasive grasses on the conservation of a critically endangered plant in Hawai'i. *Environmental Conservation*, 1-8 DOI:10.1017/S0376892922000480
- 2022 *Durboraw, T.D., C.W. Boal, M.S. Fleck, and **N.S. Gill**. 2022. Long-term recovery of Mexican spotted owl nesting habitat after fire in the Lincoln National Forest, New Mexico. *Fire Ecology*, 18:31. DOI:10.1186/s42408-022-00158-z
- †**Gill, N.S.**, †M.G. Turner, C.D. Brown, S.I. Glassman, S.L. Haire, W.D. Hansen, E. Pansing, S.B. St Clair, and D.F. Tomback. 2022. Limitations to propagule dispersal will constrain post-fire recovery of plants and fungi in western coniferous forests. *BioScience*, biab139. DOI:10.1093/biosci/biab139
- Rodman, K., R. Andrus, A. Carlson, T. Carter, T. Chapman, J. Coop, P. Fornwalt, **N.S. Gill**, B. Harvey, A. Hoffman, K. Kelsey, D. Kulakowski, D. Laughlin, J. Morris, J. Negron, K. Nigro, G. Pappas, M. Redmond, C. Rhoades, M. Rocca, Z. Schapira, J. Sibold, C. Stevens-Rumann, T. Veblen, J. Wang, X. Zhang, and S. Hart. 2022. Rocky Mountain forests are poised to recover following bark beetle outbreaks, but with altered composition. *Journal of Ecology*, 110:2929-2949. DOI:10.1111/1365-2745.13999
- 2021 Guz, J., **N.S. Gill**, and D. Kulakowski. 2021. Long-term empirical evidence of post-disturbance climate controlling forest regeneration. *Journal of Ecology* 109:4007-4024. DOI:10.1111/1365-2745.13771
- Nagy, R.C., J.K. Balch, E.K. Bissell, M.E. Cattau, N.F. Glenn, B.S. Halpern, N. Ilangakoon, B. Johnson, M.B. Joseph, S. Marconi, C. O'Riordan, J. Sanovia, T.L. Swetnam, W.R. Travis, L.A. Wasse, P.L. Zarnetske and 2019 NEON Science Summit Participants (including **N.S. Gill**; 118 authors). 2021. Harnessing the NEON data revolution to advance open environmental science with a diverse and data-capable community. *Ecosphere* 12:e03833. DOI:10.1002/ecs2.3833
- †**Gill, N.S.**, †A. Mahood, C. Meier, R. Muthukrishnan, R.C. Nagy, E. Stricker, K. Duffy, L. Petri, and J. Morisette. 2021. Six central questions about biological invasions to which NEON data science is poised to contribute. *Ecosphere* 12:e03728. DOI:10.1002/ecs2.3728
- Gill, N. S.**, T.J. Hoecker, and M.G. Turner. 2021. The propagule doesn't fall far from the tree, especially after short-interval, high-severity fire. *Ecology* 102:e03194. DOI:10.1002/ecy.3194
- *Hamilton, N.P., S.G. Yelenik, *T.D. Durboraw, R.D. Cox, and **N.S. Gill**. 2021. Understanding grass invasion, fire severity, and *Acacia koa* regeneration for forest restoration in Hawai'i Volcanoes National Park. *Land* 10:962. DOI:10.3390/land10090962

- Rodman, K., R. Andrus, C. Butkiewicz, T. Chapman, **N.S. Gill**, B. Harvey, D. Kulakowski, N. Tutland, T. Veblen, and S. Hart. 2021. Effects of bark beetle outbreaks on forest landscape pattern in the southern Rocky Mountains, U.S.A. *Remote Sensing* 13:1089. DOI:10.3390/rs13061089
- 2020 **Gill, N.S.**, D. Jarvis, J. Rogan, and D. Kulakowski. 2020. Disturbance history modulates how litter and herbaceous cover influence conifer regeneration after fire. *International Journal of Wildland Fire* 29:519-529. DOI:10.1071/WF19028
- 2018 **Gill, N.S.**, S. Yelenik, P. Banko, C. Dixon, K. Jaenecke, and R. Peck. 2018. Invasive rodent control is an efficient, yet insufficient, method for recovery of the critically endangered Hawaiian plant hau kuahiwi (*Hibiscadelphus giffardianus*). *PLOS ONE* 13:e0208106. DOI:10.1371/journal.pone.0208106
- 2017 **Gill, N.S.**, D. Jarvis, T.T. Veblen, S.T.A. Pickett, and D. Kulakowski. 2017. Is initial post-disturbance regeneration indicative of longer-term trajectories? *Ecosphere* 8:e01924 DOI:10.1002/ecs2.1924.
- Gill, N.S.**, F. Sangermano, B. Buma, and D. Kulakowski. 2017. *Populus tremuloides* seedling establishment: an underexplored vector for forest type conversion after multiple disturbances. *Forest Ecology and Management* 404:156-164. DOI:10.1016/j.foreco.2017.08.008
- 2016 **Gill, N.S.** and F. Sangermano. 2016. Africanized honeybee habitat suitability: a comparison between models for southern Utah and southern California. *Applied Geography* 76:14-21. DOI:10.1016/j.apgeog.2016.09.002
- 2014 Bekker, M.F., R.J. DeRose, B.M. Buckley, R.K. Kjelgren, and **N.S. Gill**. 2014. A 576-Year Weber River Streamflow Reconstruction from Tree Rings for Water Resource Risk Assessment in the Wasatch Front, Utah. *Journal of the American Water Resources Association* 50:1338–1348. DOI:10.1111/jawr.12191

FELLOWSHIPS

2024-2025	President's STEM Mentoring Academy, Texas Tech University, \$1,665
2023-2024	Hispanic Serving Institution Faculty Fellowship, Texas Tech University, \$1,000
2021-2023	Academy for Course Internationalization Fellowship, Texas Tech University, \$1,000
	STEM Teaching, Engagement & Pedagogy (STEP) Fellowship, Texas Tech University, \$500
2020-2021	Service Learning Faculty Fellowship, Texas Tech University, \$500
2018	Michael Guyer Postdoctoral Fellowship, University of Wisconsin-Madison Department of Integrative Biology, \$24,000
2015-2018	Graduate Research Fellowship (GRFP), National Science Foundation, \$138,000

RESEARCH GRANTS RECEIVED

- 2024-2028 **Gill, N.S.**, L. Kennedy, S. Burris, E. Melendez-Ackerman, J. Ackerman, O. Perez, G. Perry, and C. Meyers. "Extending bridges of inclusivity and experiential learning across Texas and Puerto Rico", USDA NIFA Hispanic Serving Institution Education Grants Program, \$1,197,686
- 2024-2026 **Gill, N.S.** and L. Fischer, "Investigating resident perceptions of Wildfire Crisis Strategy activities and wildfire risk in New Mexico's Enchanted Circle landscape", US Forest Service Bipartisan Infrastructure Law (BIL) grant, \$366,049
- 2025 **Gill, N.S.**, "Fire management history and wildlife diversity: The case of the 2024 Texas Panhandle wildfires", Joint Fire Science Program (JFSP) Graduate Research Innovation Award (graduate researcher Brittney Schilling), \$25,000
- 2024 **Gill, N.S.**, "Wildfire in the digital era: Understanding wildfire visual communication through social media", Joint Fire Science Program (JFSP) Graduate Research Innovation Award (graduate researcher Maria Anastacio), \$24,509. Declined.
- 2022-2024 **Gill, N.S.** and L. Kennedy. "Training experts to investigate, manage, and communicate the complexities of forest resource use under novel patterns of wildfire in the Western U.S.", USDA National Needs Graduate Fellowship Programs, \$241,000
- 2020-2024 **Gill, N.S.**, L. Kennedy, C. Villalobos, S. Burris, and C. Meyers. "The Bridge Adventure Program: Connecting diverse students to each other, to rural communities, and to FANH careers through experiential learning", USDA NIFA Hispanic Serving Institution Education Grants Program, \$275,000
- 2021 **Gill, N.S.** "Reignite Lubbock as the Hub for Fire Ecology in West Texas", The Helen Jones Foundation, \$19,000
- 2018 **Gill, N.S.** "Mechanisms of forest resilience in the Northern Rockies: Novel fire regimes and the role of postfire seed dispersal", American Association of Geographers Research Grant, \$500
- 2016 **Gill, N.S.** "The effects of invasive species management on plant-pollinator mutualisms and plant communities in Hawaii Volcanoes National Park", National Science Foundation/USGS GRIP, \$5,000
- 2015 **Gill, N.S.** Edna Bailey Sussman Fund, Edna Bailey Sussman Foundation, "Subalpine forest regeneration following compounded disturbance", \$5,005
- 2014 **Gill, N.S.** Pruser Dissertation Enhancement Grant, Clark University Graduate School of Geography, "Compounded Disturbance in the Colorado Rockies", \$1,000
- 2013 **Gill, N.S.** Libbey Fund Enhancement Grant, Clark University Graduate School of Geography, "Compounded Disturbance in the Colorado Rockies", \$5,000

2011 **Gill, N.S.** ORCA Grant, BYU Office of Research and Creative Activities (ORCA),
 “Streamflow Reconstruction from Tree Rings along the Wasatch Front”, \$1,500

GRADUATE STUDENT ADVISING (*MAJOR ADVISOR/COMMITTEE CHAIR; †RECEIVED NSF GRFP; ‡RECEIVED JFSP GRIN)

- * Castagnet, Catie. The Efficacy of Camera Traps and Acoustic Recorders to Detect Mexican Wolves (*Canis lupus baileyi*). MS Thesis. May 2025.
- Reilly Ruggiero. Heat of the Moment: Social Vulnerability to Wildfires in Texas Landowners and Latino WUI Communities. MS Thesis. May 2025.
- *‡ Anastacio, Maria. Wildfire and social media: Examining wildfire visual communication through tweets. M.S. Thesis. December 2024.
- Arey, Jacob. Effects of huisache (*Vachellia farnesiana*) and honey mesquite (*Prosopis glandulosa*) control by herbicide on forage elements and soil dynamics. MS Thesis. December 2024.
- * Wood, Dayton. Between flames and Facebook: A content analysis of government operated Facebook pages used during the 2022 New Mexico wildfire season. M.S. Thesis. May 2024. (Co-advised).
- Bowers, Alex. Age structure of *Juniperus ashei* in central Texas. M.S. Thesis. May 2024.
- * Lechnar, Catherine. Post-fire herbicide application yields largest reductions of Macartney rose (*Rosa bracteata*) in Attwater’s prairie-chicken habitat. M.S. Thesis. May 2023.
- Mahmud, Azaj. Shoot flammability of shrubs in Texas. M.S. Thesis. May 2023.
- *† Durboraw, Tara D. The structural impacts of wildfire and defoliation on Mexican Spotted Owl (*Strix occidentalis lucida*) nesting habitat. M.S. Thesis. August 2021.
- * Hamilton, Natalia. The effects of grass invasion and fire severity on *Acacia koa* regeneration. M.S. Thesis. May 2021.
- Puja Roy. PhD Dissertation. Anticipated May 2028.
- * Ghimire, Badri. PhD Dissertation. Anticipated December 2026.
- * Gyan, George. PhD Dissertation. Anticipated August 2026.
- *‡ Schilling, Brittney. MS Thesis. Anticipated May 2026.
- Mahmud, Azaj. PhD Dissertation. Anticipated May 2026.
- Haque, Ashfara. PhD Dissertation. Anticipated May 2026.
- Charles Hoytt. PhD Dissertation. Anticipated December 2025.

HONORS AND AWARDS

- 2021 Spotlight Award for creative enhancements to the teaching and learning culture at Texas Tech University. Teaching, Learning, and Professional Development Center, Texas Tech University
- 2019 J Warren Nystrom Award Finalist for best paper based upon a recent dissertation in geography, "Disturbance interactions modulate how microhabitat influences conifer regeneration", American Association of Geographers
- 2016 NASA-MSU Professional Enhancement Award
- 2013 Valedictorian, Brigham Young University Department of Geography

TEACHING EXPERIENCE

Texas Tech University

2019— Assistant Professor

Undergraduate courses taught: Environmental Science as a Social Pursuit, Fire Ecology and Management, Prescribed Burning, Drone Piloting, Mentored Research, The Art and Science of Geographic Information

Graduate courses taught: Trends in Fire Ecology Seminar, Communicator's Guide to Wildland Fire Science, Pyrogeography, Forest Restoration Service Learning, UAS Piloting, Ecological Silviculture

Course development: Prescribed Burning as a service learning course (graduate and undergraduate), Drone Piloting (undergraduate), UAS Piloting (graduate), Environmental Science as a Social Pursuit as an online course and as a hybrid course (undergraduate), Fire Ecology and Management as an online course (graduate and undergraduate), Trends in Fire Ecology Seminar (graduate), Communicator's Guide to Wildland Fire Science (graduate), Pyrogeography (graduate), Forest Restoration Service Learning (graduate), The Art and Science of Geographic Information (undergraduate)

Clark University

2015 Adjunct Professor

Undergraduate courses taught: Earth System Science

The Higher Education Consortium of Central Massachusetts

2014 Certificate in College Teaching Seminar

SELECTED ORAL PRESENTATIONS

- 2025 Castagnet, C. and **N.S. Gill**. "Comparing the efficacy and accuracy of acoustic recorders and game cameras in detecting Mexican gray wolves", AZ/NM Wildlife Society Joint Annual Meeting, Albuquerque, NM.
- 2024 **Gill, N.S.**, M. Porter, and J. Henderson, "Local knowledge, fire behavior modeling, and realized wildfire hazard", Southwest Fire Ecology Conference, Santa Fe, NM.
- Bhole, N. and **N.S. Gill**, "Cordoba Wildland Fires", NASA Develop National Conference, Washington, D.C.
- Gill, N.S.** "The Core Tenets of Pyrogeography: Lessons from a meta-review." American Association of Geographers, Honolulu, HI.
- 2023 **Gill, N.S.** and C. McHugh, "Basic fire behavior modeling with FlamMap." International Fire Congress, Association for Fire Ecology, Monterey, CA.
- McHugh, C. and **N.S. Gill**, "Advanced topics and geospatial modeling with FlamMap." International Fire Congress, Association for Fire Ecology, Monterey, CA.
- Gill, N.S.**, L. Kennedy, and S. Burris. "Training experts to investigate, manage, and communicate the complexities of forest resource use under novel patterns of wildfire in the Western U.S." Invited speaker. USDA NIFA's National Needs Fellowship Project Director Meeting, Virtual Meeting.
- Gill, N.S.**, "New patterns of fire: How fire regime change is influencing ecosystem dynamics in subalpine and montane forests of the western United States". Invited speaker, Chico State Department of Biological Sciences Omicron Seminar, Virtual Seminar.
- Gill, N.S.**, "Why care about fire behavior modeling?". Invited plenary speaker, New Mexico Wildland Urban Fire Summit, Ruidoso, NM.
- 2022 **Gill, N.S.**, "Ecological and social resilience in the New Age of fire". Invited speaker, Intermountain West Transformation Network Colloquium, Virtual Colloquium.
- Gill, N.S.**, Jarvis, D., Williams, C., Rogan, J., Kulakowski, D. "Surface and Canopy Fuels After Multiple Centuries of Recurring Mountain Pine Beetle Outbreak." International Association for Landscape Ecology-North America, Virtual Meeting.
- Gill, N.S.**, "Spatial patterns of fuel reduction in a mixed conifer forest: a simulation experiment", American Association of Geographers, Denver, CO.
- 2021 **Gill, N.S.** "Ecological implications of disturbance regime change in Rocky Mountain subalpine forests", Invited speaker, CU-Denver Integrative Biology, Virtual Seminar.
- Gill, N.S.** and Durboraw, T.D. "Tree regeneration following wildfires and defoliator outbreaks in mixed conifer forest of the Sacramento Mountains, New Mexico". American Association of Geographers, Virtual Meeting.

- Gill, N.S.** “Plant Invasions and the Potential for Fire Regime Change in the Southern Rockies and Colorado Plateau”, Society for Range Management, Virtual Meeting.
- 2019 **Gill, N.S.**, M.G. Turner, C.D. Brown, S.I. Glassman, W.D. Hansen, S.L. Haire, E.A. Johnson, E. Pansing, K.M. Robertson, S.B. St Clair, and D.F. Tomback. “Propagule delivery into burned patches following short-interval fires: A synthesis across taxon, system, and dispersal mode”, Association for Fire Ecology, Tucson, AZ
- Gill, N.S.**, T. Hoecker, and M.G. Turner. “Reduced seed dispersal may erode subalpine forest resilience when young forests reburn”, Ecological Society of America, Louisville, KY
- Gill, N.S.** and D. Kulakowski. “Disturbance interactions modulate how microhabitat influences conifer regeneration”, American Association of Geographers, Washington, D.C.
- 2018 **Gill, N.S.**, and M.G. Turner. “Fire regime change and implications for lodgepole pine seed delivery in the Greater Yellowstone Ecosystem: Preliminary Results”, American Association of Geographers West Lakes Division, Lacrosse, WI
- Gill, N.S.** and D. Kulakowski. “Disturbance interactions modulate community-level relationships and ecosystem trajectories”, International Association for Landscape Ecology (US), Chicago, IL
- Gill, N.S.** and D. Kulakowski. “Relationships Between Ground Cover and Post-Fire Conifer Regeneration Depend on Pre-Fire Disturbance History”, American Association of Geographers, New Orleans, LA
- 2017 **Gill, N.S.**, T.T. Veblen, S.T.A. Pickett, and D. Kulakowski. “Are initial post-disturbance regeneration trends indicative of longer-term trajectories?”, International Association for Landscape Ecology (US), Baltimore, MD
- Gill, N.S.** and D. Kulakowski. “Postfire conditions conducive to increased aspen dominance through seedling establishment may facilitate forest persistence”, American Association of Geographers, Boston, MA
- 2016 **Gill, N.S.**, T.T. Veblen, S.T.A. Pickett, and D. Kulakowski. “Are initial post-disturbance regeneration trends indicative of longer-term trajectories?”, American Association of Geographers, San Francisco, CA
- Gill, N.S.**, and F. Sangermano. “The Africanized honeybee in a telecoupling framework”, Poster Session, International Association for Landscape Ecology (US), Asheville, NC
- 2015 **Gill, N.S.** “Africanized Honeybee Distribution in Utah and California”, American Association of Geographers, Chicago, IL

- 2014 **Gill, N.S.** “Modeling Africanized Honeybee Distribution Using PRISM Climate Data in the Southwestern US”, New England/St. Lawrence Valley American Association of Geographers, Durham, NH (1st place oral presentation)
- 2013 **Gill, N.S.** and M.F. Bekker. “Streamflow Reconstruction of Three Rivers in the Wasatch Front, Utah”, New England/St. Lawrence Valley American Association of Geographers, Worcester, MA
- 2012 **Gill, N.S.**, R. Anderson, A. Nguyen, S. Kannan, and N. Patadia. “Whitebark Pine Mortality along the Pacific Crest Trail”, NASA Develop National Conference, Washington, D.C.

ACADEMIC SERVICE TO PROFESSION

- 2024— Committee Member, Awards committee of the Hazards, Risk, and Disasters Specialty Group of the American Association of Geographers
- 2023— Co-chair, Association for Fire Ecology Mentoring Futures Program
- 2022— Committee Member, Association for Fire Ecology Long Range Event Planning Committee
- 2021— Mentor, Association for Fire Ecology Mentoring Futures Program
- 2019— Treasurer, American Association of Geographers Biogeography Specialty Group
Board Member, Texas Department of Agriculture Prescribed Burning Board
- 2024 Advisor, NASA Develop Pop-up program
- 2021 Panelist, Increasing diversity, equity, and inclusion in Biogeography, American Association of Geographers, virtual meeting
Organizer and Panelist, Fire in the Pasture: Prescribed Burns Panel Discussion and Exhibit Opening, National Ranching Heritage Center, Lubbock, TX
- 2020 World Heritage Site Assessment Reviewer, International Union for Conservation of Nature
- 2019 Judge, West Texas Regional Science and Engineering Fair
Co-organizer of Organized Oral Session, “Altered fire regimes and dispersal into post-fire landscapes”, Ecological Society of America, Louisville, KY
- 2018 Panel Organizer and Session Chair: “Preparing Competitive Research Grants in Biogeography”, American Association of Geographers, New Orleans, LA
Research Mentor Training Program, University of Wisconsin
NSF Fellows Leadership Program, Worcester Polytechnic Institute

- 2017-2018 Education Committee member, Dishman Hills Conservancy
- Land Stewardship Committee member, Dishman Hills Conservancy
- Student Director, American Association of Geographers Biogeography Specialty Group
- 2017 Panelist, "Graduate student health & well-being: a frank discussion", American Association of Geographers, Boston, MA
- Organizer and Chair of Remote Sensing and GIS Honors Paper Competition (I & II), American Association of Geographers, Boston, MA
- 2015-2017 Student Director, American Association of Geographers Remote Sensing Specialty Group
- 2016 Remote Sensing and GIScience Consultant (unpaid), Wildlife Conservation Society
- Organizer and Chair of Remote Sensing, GIS, and Cartography Illustrated Paper Competition, American Association of Geographers, San Francisco, CA
- 2015 Judge, Paleoenvironmental Change student presentation competition, Annual Meeting of the American Association of Geographers
- 2014 Judge, Biogeography student presentation competition, Annual Meeting of the American Association of Geographers
- Peer review (grant proposals): *USDA NIFA*
- Peer review (manuscripts): *Ecological Monographs*
 Global Environmental Change
 Forest Ecology and Management
 International Journal of Wildland Fire
 International Journal of Geo-Information
 Nature Communications Earth & Environment
 Journal of Vegetation Science
 Annals of Forest Science
 Restoration Ecology
 Journal of Ecology
 Remote Sensing
 Forests

DEPARTMENTAL SERVICE

Service to the Department of Natural Resources Management, Texas Tech University

- 2023— Scholarship Committee, Committee Chair
- 2021— Core Curriculum Reporting NRM 1300, Committee Chair
- 2020—2021 Range Conservation Curriculum Review Committee, Committee Member
Natural Resource Management Degree Program, Undergraduate Advisor
- 2020 South Plains Regional Science Fair TTU Department of Natural Resources Management Scholarship, Competition Adjudicator/Juror.

Service to the Graduate School of Geography, Clark University

- 2014-2016 Graduate Studies Committee
- 2013-2014 Colloquium Committee

Service to the Department of Geography, Brigham Young University

- 2012-2013 GIS and Environmental Science Representative, Brigham Young University
Geography Student Association

INSTITUTIONAL SERVICE

Service to the Davis College of Agricultural Sciences and Natural Resources

- 2022— Scholarship and Awards Committee, Committee Member
- 2024 Successful Culture Panel for New Faculty Fellows, Panel member, Davis College of Agricultural Sciences and Natural Resources
- 2021 Grantsmanship Panel for New Faculty Fellows, Panel member, College of Agricultural Sciences and Natural Resources
- 2020 Research Leadership Discussion Panel, “Creative Collaborations to Increase Competitiveness”, Invited Workshop Presenter

South Plains Regional Science Fair College of Agricultural Sciences and Natural Resources Scholarship, Competition Adjudicator/Juror

Service to Texas Tech University

- 2022— Board Member, TTU Transformational Undergraduate Experiences Advisory Board
- 2020— Bridge Adventure, Program Director

2019—	Student Association for Fire Ecology (SAFE), Faculty Advisor
2025	Oluwatola Adedeji, Dissertation Defense Committee, Dean's Representative
2024	Morgan Aguilar Dissertation Defense Committee, Dean's Representative
2023	Benneth Obitte Dissertation Defense Committee, Dean's Representative
2022-2023	Academy for Course Internationalization Mentor, Center for Global Communication
2021	Service Learning Course Designation Committee, Committee Member
	Xiulin Gao Dissertation Defense Committee, Dean's Representative
	Mentor Tech, Mentor
	Rubio Amede Dissertation Committee, Dean's Representative
	Tanshi Iroro Dissertation Defense Committee, Dean's Representative

Undergraduate researchers advised:

2025	Alex Haydek (Undergraduate Research for course credit)
	Kiera Ramirez-Tabor (Undergraduate Research for course credit)
	Yonatan Frechette (Undergraduate Research for course credit)
2024—	Alexis Anderson [Louis Stokes Alliances for Minority Participation (LSAMP) Scholar]
2023—	Holden Hobbs (TRUE Scholar)
2023-2024	Shin Naing (TRUE Scholar)
	Leslie Omanzane (TRUE Scholar and McNair Scholar)
	Philip Baracato (Undergraduate Research for course credit)
2020-2023	Ashlyn Sneed (International Wayne Harrison Memorial Scholarship recipient)
	Garner, Mikael (Pi ² Scholar)
2023	Collin Norvell (Davis College Undergraduate Research Grant)
2022	Beighlee Franks (Undergraduate Research for course credit)
2019-2021	Grant, Taylor (Pi ² Scholar)

MEDIA COVERAGE

- 2024 *NBC News*, “Wildfire seasons are starting earlier and getting longer”, Denise Chow, 08 March 2024.
- 2023 *Logically.ai*, “No, fires in Hawaii are not related to smart city plans”, Arron Williams, 21 August 2023. Interviewed by fact-checker John Faerseth.
- 2021 *National Parks Magazine*, “Pines in Peril”, Ben Goldfarb, Spring 2021
- EverythingLubbock.com*, “TTU researchers create fellowship to improve communication of wildfire drivers”, News Release posted by everythinglubbock.com staff, 28 August 2021
- 2020 *KCBD Local News Channel 11*, interviewed on television by Michael Cantu about recent drought conditions and fire hazard, October 2020
- Lubbock Avalanche-Journal*, “Texas Tech educator leading effort to increase diversity, inclusion in agriculture”, 9 October 2020
- Wyoming Public Media*, interviewed on radio by Kamila Kudelski about changing patterns of fire in the Greater Yellowstone Ecosystem, 16 September 2020
- 2019 *NOVA*, “Inside the Megafire”, PBS, May 2019
- 2018 *Discover Magazine*, “Wildfire Engulfed Yellowstone 30 Years Ago. Its Recovery Could Predict The Future of the West”, Kristen Pope, November 2018
- 2014 *Science Magazine News*, “Tree Rings Reveal Extreme Droughts”, Nadia Whitehead, May 2014

PROFESSIONAL AFFILIATIONS

- ❖ American Association of Geographers (specialty groups: Biogeography, GIS, Remote Sensing, and Mountain Geography)
- ❖ International Association for Landscape Ecology-North America
- ❖ Association for Fire Ecology
- ❖ Ecological Society of America
- ❖ National Geography Honor Society (GTU)
- ❖ National Society of Collegiate Scholars