

Jason P. Julian

Professor of Geography
Department of Geography and Environmental Studies
Texas State University
Website: <http://jasonjulian.wp.txstate.edu/>

601 University Drive
ELA 139
San Marcos, TX 78666
512.245.3201
Jason.Julian@txstate.edu

RESEARCH AND TEACHING EXPERTISE

Environmental Geography: social-ecological systems; nature-human relational models; community wellbeing; sustainable towns; land use change; climate change with a focus on droughts and heat waves; scaling relationships

Conservation: human-environment interactions; parks & protected places; ecosystem services; natural resource management

Water Resources: watershed science & management; water policy; stream mitigation; water conservation; sustainable flows; water quality trends

EDUCATION

Ph.D. Geography University of North Carolina, Chapel Hill, NC, **2007**

M.S. Geology University of South Carolina, Columbia, SC, **2004**

B.S. Geography University of South Carolina, Columbia, SC, **2001**

PROFESSIONAL POSITIONS

2018 – present	Professor & Associate Chair (2018-2022), Department of Geography and Environmental Studies, Texas State University
2013 – 2018	Associate Professor (Tenured in Sep 2016), Department of Geography, Texas State University
2009 – 2013	Assistant Professor, Department of Geography & Environmental Sustainability, University of Oklahoma
2007 – 2008	Assistant Research Scientist (postdoc), Appalachian Laboratory, University of Maryland Center for Environmental Science
2004 – 2007	Research Assistant, Dept. of Geography, University of North Carolina
2002 – 2004	Research and Teaching Assistant, Department of Geological Sciences, University of South Carolina
2000 – 2001	Surface Processes Lab Assistant, Department of Geological Sciences, University of South Carolina
1996 – 1999	Space Systems Technician, United States Air Force

PUBLICATIONS* (underline indicates student/post-doc I mentored)

*Full text of most book chapters and articles can be found on ResearchGate:

https://www.researchgate.net/profile/Jason_Julian

ORCID: 0000-0003-1706-4871

Books (1)

Julian JP. 2023, Forthcoming. A Century of Connecting Nature, History, and Society: Texas State Parks. Texas A&M University Press.

Peer-reviewed Book Chapters (7)

- Maleki S, Julian JP, Weaver RC, Lopez CW, Kraft M. 2022. Social Demand for Urban Wilderness in Purgatory. In Misiune I, et al. (editors), *Human-Nature Interactions: Exploring Nature's Values Across Landscapes*, Springer Nature, Chapter 20, pp. 247-260.
- Lookingbill TR, Meitzen KM, Julian JP. 2021. Riverscapes. In Francis RA, et al. (editors), *The Routledge Handbook of Landscape Ecology*, London, Routledge, Chapter 21, 411-429.
- Julian JP. 2019. Old forts and new amenities in the Southern Plains. In Lookingbill T, Smallwood P (Eds.), *Collateral Values: The Natural Capital Created by Landscapes of War*, Cham, Springer, pp. 77-109 (Chapter 4).
- Castro AJ, Julian JP, Vaughn CC, Martin-Mikle CJ, Quintas-Soriano C. 2018. Ecosystem services across U.S. watersheds: a meta-analysis of studies 2000-2014. In Hufnagel L (editor), *Ecosystem Services and Global Ecology*, London, InTech, pp. 81-101 (Chapter 5). Open-Access: <https://www.intechopen.com/books/ecosystem-services-and-global-ecology/ecosystem-services-across-us-watersheds-a-meta-analysis-of-studies-2000-2014>.
- Julian JP, Podolak CJP, Meitzen KM, Doyle MW, Manners RB, Hester E, Ensign S, Wilgruber N. 2016. Shaping the physical template: Biological, hydrological, and geomorphic connections in stream channels. In Jones JB, Stanley EH (editors), *Streams in a Changing Environment*, London, Academic Press, pp. 85-133.
- Castro AJ, Vaughn CC, Julian JP, García-Llorente M, Bowman KN. 2015. Social perception and supply of ecosystem services: a watershed approach for carbon related ecosystem services. In Blanco JA (editor), *Biodiversity in Ecosystems: Linking Structure and Function*, London, InTech, pp. 443-455 (Chapter 17). Open-Access: <https://www.intechopen.com/books/biodiversity-in-ecosystems-linking-structure-and-function/social-perception-and-supply-of-ecosystem-services-a-watershed-approach-for-carbon-related-ecosystem>.
- Riggsbee JA, Doyle MW, Julian JP, Manners R, Muehlbauer JD, Sholtes J, and Small MJ. 2013. Influence of Aquatic and Semi-Aquatic Organisms on Channel Forms and Processes. In Shroder JF (Editor-in-chief), Wohl E (Volume Editor), *Treatise on Geomorphology*, Vol 9, Fluvial Geomorphology, San Diego, Academic Press, pp. 189-202.

Peer-reviewed Journal Articles (>40)

- Tenebe IT, Julian JP, Emenike PC, Dede-Bamfo N, Maxwell O, Alves DD. 2023, In review. Multi-dimensional surface water quality analyses in the Manawatu River Catchment, New Zealand. *Water Science and Technology*.
- Soliman T, Greenhalgh S, Kamarinas I, Julian JP. 2023, In review. Assessing the cost-effectiveness of targeted riparian restoration policies in New Zealand. *Land Use Policy*.
- Wade MT, Julian JP, Jeffery KS, Davidson SM. 2023. A participatory approach to assess social demand and value of urban waterscapes: A case study in San Marcos, Texas, USA. *Land* 12(6), 1137, <https://doi.org/10.3390/land12061137>.
- Lopez CW, Wade MT, Julian JP. 2023. Nature-human relational models in a riverine social-ecological system: San Marcos River, Texas, USA. *Geographies* 3:197-245, <https://doi.org/10.3390/geographies3020012>.
- Ordway E, Elmore A, Kolstoe S, Quinn J, Swanwick R, Cattau M, Taillie D, Guinn S, Chadwick D, Atkins J, Blake R, Chapmant M, Cobourn K, Goulden T, Helmus M, Hondula K, Hritz C, Jensen J, Julian JP, Kuwayama Y, Lulla V, O'Leary D, Nelson D, Ocón J, Pau S, Ponce-Campos G, Portillo C, Pricope N, Rivero R, Schneider L, Steele M, Tulbure M,

- Williamson M, Wilson C. 2021. Leveraging the NEON Airborne Observation Platform for socio-environmental systems research. *Ecosphere* 12(6): e03640.
- Misiune I, Julian JP, Veteikis D. 2021. Pull and push factors for use of urban green spaces and priorities for their ecosystem services: Case study of Vilnius, Lithuania. *Urban Forestry and Urban Greening* 58: 126899, <https://doi.org/10.1016/j.ufug.2020.126899>.
- Manning A, Julian JP, Doyle MW. 2020. Riparian vegetation as an indicator of stream channel presence and connectivity in arid environments. *Journal of Arid Environments* 178: 104167, <https://doi.org/10.1016/j.jaridenv.2020.104167>.
- Julian JP, Weaver RC. 2019. Demand for Stream Mitigation in Colorado, USA. *Water* 11(1): 174, <https://doi.org/10.3390/w11010174>.
- Julian JP, Daly G, Weaver RC. 2018. University students' social demand of a blue space and the influence of life experiences. *Sustainability* 10(9): 3178, <https://doi.org/10.3390/su10093178>.
- Castro AJ, Atkinson CL, Baxter CV, Brandt J, Burnham M, Egoh B, Garcia-Llorente M, Julian JP, Martin-López B, Norström A, Liao F, Quintas-Soriano C, Running K, Vaughn CC. 2018. Applying place-based social-ecological research to address water scarcity: Insights for future research. *Sustainability* 10(5): 1516, doi:10.3390/su10051516.
- Manning A, Julian JP. 2018. Ecosystem services and damage costs of federal lands: Case study of Gila National Forest, USA. *The Southwestern Geographer* 21: 1-22.
- Abbott SK, Julian JP, Kamarinas I, Meitzen KM, Fuller IC, McColl ST, Dymond J. 2018. State-shifting at the edge of resilience: River suspended sediment responses to land use change and extreme storms. *Geomorphology* 305: 49-60.
- Meitzen KM, Phillips J, Perkins T, Manning A, Julian JP. 2018. Catastrophic flood disturbance and a community's response to plant resilience in the heart of the Texas Hill Country. *Geomorphology* 305: 20-32.
- Thoms MC, Meitzen KM, Julian JP, Butler DR. 2018. Bio-Geomorphology and resilience thinking: Common ground and challenges. *Geomorphology* 305: 1-7.
- Julian JP, de Beurs KM, Owsley BC, Davies-Colley RJ, Ausseil A-GE. 2017. River water quality changes in New Zealand over 26 years: Response to land use intensity. *Hydrology and Earth System Sciences* 21: 1149–1171, <http://www.hydrol-earth-syst-sci.net/21/1149/2017/>.
- Kamarinas I, Julian JP, Hughes AO, Owsley BC, de Beurs KM. 2016. Nonlinear changes in land cover and sediment runoff in a New Zealand catchment dominated by plantation forestry and livestock grazing. *Water* 8(10), 436; doi:10.3390/w8100436, <http://www.mdpi.com/2073-4441/8/10/436>.
- Lavy BL, Julian JP, Jawarneh RN. 2016. The impact of past and future urban expansion on soil resources in central Arkansas (USA), 1994-2030. *Papers in Applied Geography* 2(1): 25-39.
- de Beurs KM, Owsley BC, Julian JP. 2016. Disturbance analyses of forests and grasslands with MODIS and Landsat in New Zealand. *International Journal of Applied Earth Observation and Geoinformation* 45: 42-54.
- Castro AJ, Vaughn CC, García-Llorente M, Julian JP, Atkinson CL. 2016. Willingness to pay for ecosystem services among stakeholder groups in a South-Central U.S. watershed with regional conflict. *Journal of Water Resources Planning and Management* 142(9), [10.1061/\(ASCE\)WR.1943-5452.0000671](https://doi.org/10.1061/(ASCE)WR.1943-5452.0000671), 05016006.

- Tran TV, de Beurs KM, Julian JP. 2016. Monitoring forest disturbances in southeast Oklahoma using Landsat and MODIS images. *International Journal of Applied Earth Observation and Geoinformation* 44: 42-52.
- Castro AJ, Vaughn CC, Julian JP, García-Llorente M. 2016. Social demand for ecosystem services and implications for watershed management. *Journal of American Water Resources Association* 52(1): 209-221.
- Julian JP, Wilgruber N, de Beurs KM, Mayer PM, Jawarneh R. 2015. Long-term impacts of land cover changes on stream channel loss. *Science of the Total Environment* 537: 399-410.
- Jawarneh RN, Julian JP, Lookingbill TR. 2015. Physiographic influences on historical and future urban growth: Case study of central Arkansas (USA), 1857-2030. *Landscape and Urban Planning* 143: 76-89.
- Gates KK, Vaughn CC, Julian JP. 2015. Incorporating species traits in a guild approach for developing freshwater mussel environmental flow recommendations. *Freshwater Biology* 60: 620-635.
- Martin-Mikle CJ, de Beurs KM, Julian JP, Mayer PM. 2015. Identifying priority sites for low impact development (LID) in a mixed-use watershed. *Landscape and Urban Planning* 140: 29-41.
- Vaughn CC, Atkinson CL, Julian JP. 2015. Drought-induced changes in flow regimes lead to long-term losses in mussel-provided ecosystem services. *Ecology & Evolution* 5(6): 1291-1305.
- Tran TV, Julian JP, de Beurs KM. 2014. Land cover heterogeneity effects on sub-pixel and per-pixel classifications. *International Journal of Geo-Information* 3(2): 540-553.
- Atkinson CL, Julian JP, Vaughn CC. 2014. Species and function lost: role of drought in structuring stream communities. *Biological Conservation* 176: 30-38.
- Julian JP, Gardner RH. 2014. Land cover effects on runoff patterns in eastern Piedmont (USA) watersheds. *Hydrological Processes* 28: 1525-1538.
- Elmore AJ, Julian JP, Guinn SM, Fitzpatrick MC. 2013. Potential stream density in Mid-Atlantic U.S. watersheds. *PLoS ONE* 8(8): e74819, doi: 10.1371/journal.pone.0074819.
- Powers SM, Julian JP, Doyle MW, Stanley EH. 2013. Retention and transport of nutrients in a mature agricultural impoundment. *Journal of Geophysical Research: Biogeosciences* 118: 1-13, doi:10.1029/2012JG002148.
- Julian JP, Davies-Colley RJ, Gallegos CL, Tran TV. 2013. Optical water quality of inland waters: A landscape perspective. *Annals of the Association of American Geographers* 103: 309-318.
- Julian JP, Elmore AJ, Guinn SM. 2012. Channel head locations in forested watersheds across the Mid-Atlantic United States: A physiographic analysis. *Geomorphology* 177: 194-203.
- Atkinson CL, Julian JP, Vaughn CC. 2012. Scale-dependent longitudinal patterns in mussel communities. *Freshwater Biology* 57: 2272-2284.
- Jawarneh RN, Julian JP. 2012. Development of an accurate fine-resolution land cover timeline: Little Rock, Arkansas, USA (1857 - 2006). *Applied Geography* 35: 104-113.
- Julian JP, Thomas RE, Moursi S, Hoagland BW, Tarhule A. 2012. Historical variability and feedbacks among land cover, stream power, and channel geometry along the lower Canadian River floodplain in Oklahoma. *Earth Surface Processes and Landforms* 37: 449-458, doi:10.1002/esp.2272.
- Julian JP, Seegert SZ, Powers SM, Stanley EH, Doyle MW. 2011. Light as a first-order control on ecosystem structure in a temperate stream. *Ecohydrology* 4: 422-432, doi: 10.1002/eco.144.

- Julian JP, Stanley EH, Doyle MW. 2008. Basin-scale consequences of agricultural land use on benthic light availability and primary production along a sixth-order temperate river. *Ecosystems* 11: 1091-1105.
- Julian JP, Doyle MW, Stanley EH. 2008. Empirical modeling of light availability in rivers. *Journal of Geophysical Research: Biogeosciences* 113: G03022, doi:10.1029/2007JG000601.
- Julian JP, Doyle MW, Powers SM, Stanley EH, Riggsbee JA. 2008. Optical water quality in rivers. *Water Resources Research* 44: W10411, doi:10.29/2007WR006457.
- Riggsbee JA, Julian JP, Doyle MW, Wetzel RG. 2007. Suspended sediment, dissolved organic carbon, and dissolved nitrogen export during the dam removal process. *Water Resources Research* 43: W09414, doi:10.1029/2006WR005318.
- Julian JP, Torres R. 2006. Hydraulic erosion of cohesive riverbanks. *Geomorphology* 76: 193-206.
- Doyle MW, Julian JP. 2005. The most-cited works in *Geomorphology*. *Geomorphology* 72: 238-249.

Invited Reviews and other Contributions (3)

- Julian JP. 2018. Channel Heads. *Reference Module in Earth Systems and Environmental Sciences*. Elsevier, doi.org/10.1016/B978-0-12-409548-9.11026-7.
- Julian JP, de Beurs KM. 2018. Assessing Land Cover Changes with High Spatio-temporal Resolution to Assist with Catchment Restoration. In Hamilton DP, Collier KJ, Quinn JM, Howard-Williams C (editors), *Lake Restoration Handbook: A New Zealand Perspective*, Cham, Switzerland, Springer, p. 112, Box 4.2.
- Julian JP. 2017. Review of “Let Us Now Praise Famous Gullies: Providence Canyon and the Soils of the South (Sutter PS, 2015).” *Journal of Historical Geography* 55: 111.

Professional Reports (7)

- Julian JP. 2022. Significant nexus of ephemeral streams to foundational waters in the arid southwestern United States: Technical Comments on the Applicability of the 2021 Revised Definition of “Waters of the United States” in Arid Landscapes. *Freeport-McMoRan*, 41 pp.
- Doyle MW, Julian JP. 2019. Assessing Potential Waters of the U.S. and Connectivity in Arid Regions: Technical Comments on the Applicability of the Clean Water Rule on Jurisdictional Waters Determination in Arid Landscapes. *Freeport-McMoRan*, 22 pp.
- Julian JP, Doyle MD. 2019. Stream Mitigation Assessment for Potential [redacted] Service Area in Arizona. *Catena Foundation*, 34 pp.
- Julian JP, Weaver RC. 2018. Analysis of Demand for Stream Mitigation Credits in Colorado. *Meridian Institute*, 70 pp.
- Doyle MW, Julian JP. 2014. Technical Comments on the Applicability of the Proposed Rule of Jurisdictional Waters Determination in Arid Landscapes. *Freeport-McMoRan*, 15 pp.
- Vaughn CC, Julian JP. 2013. Incorporating Ecological Costs and Benefits into Environmental Flow Recommendations for Oklahoma Rivers. *Oklahoma Water Resources Research Institute*, 38 pp.
- Julian JP, Torres R. 2004. Hydrology and Geomorphology of Sand River, Aiken, SC. *Hitchcock Woods Foundation*, 24 pp.

FUNDING – 17 grants totaling \$2,131,757 (JPJ portion: ~\$611,370)

- Hydrologic Connectivity in the Arid West. Freeport Minerals, Inc., \$53,704 (JPJ portion: \$53,704). PI, 2022.
- Emergent urban nature networks and improving Hispanic representation in STEM. ICTAS Diversity & Inclusion Seed Investment, Virginia Tech University, \$20,000 (JPJ portion: \$0). Co-PI with Meredith Steele (PI), 2021-2023.
- RCN: Patterns, Places, People: A network for scalable airborne observation of socio-environmental systems. Research Coordination Network, NSF-Macrosystems, \$500,000 (JPJ portion: \$0). Senior Personnel-Participant with Andrew Elmore (PI), 2021-2026.
- Sustainable Carrying Capacity of Upper San Marcos River: Meeting Ecological and Social Demands. Research Enhancement Program, Texas State University, \$7,997 (JPJ portion: \$7,997). PI with Kimberly Meitzen (Consultant), 2020-2021.
- Identification of headwater streams in arid landscapes. Duke University, \$72,382 (JPJ portion: \$72,382). PI, 2017-2019.
- Analysis of Demand for Stream Mitigation Credits in Colorado. Meridian Institute, \$63,287. PI with Russell Weaver (Co-I), 2017-2019.
- Resilience and Bio-Geomorphic Systems: The 48th Annual Binghamton Geomorphology Symposium. NSF-Geomorphology & Land Use Dynamics (EAR 1660536), \$39,250. PI with Kimberly Meitzen and David Butler (co-PIs), 2017-2018.
- The New 100th Meridian: Urban Water Resiliency in a Climatic and Demographic Hot Spot. NSF-CNH (Award 1518541), \$499,923 (JPJ portion \$0). Participant (and wrote major section of proposal) with Jay Banner (PI) and many others, 2015-2020.
- Social Demand for Ecosystem Services in the Nation's Fastest Growing City: San Marcos, TX. Research Enhancement Program, Texas State University, \$8,000 (JPJ portion: \$8,000). PI, 2015.
- Cross-scale Interactions among Climate Change, Land Use Change, and River Water Quality. NSF-GSS, \$227,816 (JPJ portion \$72,184). PI with Kirsten de Beurs and Chris Weaver (co-PIs), 2014-2017.
- Land Management Impacts on Water Quality in New Zealand across Political Boundaries. NASA LCLUC, \$302,831 (JPJ portion: ~\$240,000). PI with Kirsten de Beurs (co-PI), 2013-2015.
- Influence of Catchment Characteristics and Land Use Change on Optical Water Quality in New Zealand Rivers. Fulbright Scholar Program, ~\$20,000 (JPJ portion: \$20,000). PI, 2012.
- Historical and Future Land Cover Change in Southeast Oklahoma: Implications for Statewide Water Resources. University of Oklahoma Junior Faculty Research Grant, \$8,000 (JPJ portion: \$8,000). PI, 2011.
- Incorporating Ecological Costs and Benefits into Environmental Flow Recommendations for Oklahoma Rivers. Oklahoma Water Resources Research Institute, \$75,000 (JPJ portion: \$0). Co-PI with Caryn Vaughn (PI), 2011-2012.
- A Fluvial Geomorphic and Sediment Transport Study of the Little River Upstream of Lake Thunderbird Using an Acoustic Doppler Current Profiler. Oklahoma Water Resources Research Institute, \$83,567 (JPJ portion: \$0). Co-I with Randall Kolar (PI), Russell Dutnell, Robert Nairn, and Baxter Vieux, 2010-2011.
- Effects of Dam Operation on Downstream Hydrology, Riparian Vegetation, and Channel Migration Patterns. OU Geography Departmental Joint Research Initiative, \$2,000 (JPJ portion: \$2,000). PI with Bruce Hoagland and Aondover Tarhule, 2009-2010.

Investigating Impacts of Headwater Stream Burial during Development on Downstream Nutrient Export to Chesapeake Bay. NOAA, Maryland Sea Grant, \$148,000 (JPJ portion: \$21,936). Co-PI with Andrew Elmore (PI) and Sujay Kaushal, 2009-2011.

FELLOWSHIPS & AWARDS TO STUDENTS UNDER MY SUPERVISION (>\$120,000)

Priyanjali Bose. Bernard W. Detlefsen Graduate Field Study Award, Texas State University, received, \$1000. 2022 (MS Advisor).

Priyanjali Bose. Joe and Jerry Moore Scholarship in Water Resources, Texas State University, \$850. 2022 (MS advisor).

Madeline Wade. Graduate College Thesis Research Support Fellowship, Texas State University, \$1,368. 2022 (MS Advisor).

Madeline Wade. 1st place Poster at SWAAG conference, \$500. 2021 (MS Advisor).

Madeline Wade. Jeffries Family Scholarship, Texas State University, \$500. 2021 (MS Advisor).

Christina Lopez. P.E.O. Scholar Award, \$15,000. 2020-2021 (PhD Advisor)

Raihan Jamil. Urban Greenspace Distribution and Connectivity: A Case Study of San Marcos, Texas (USA), San Marcos Greenbelt Alliance Student Research Grant, \$2,000. 2020 (PhD Advisor).

Mataya Wright. 1st place in undergraduate poster competition at Geography Student Research Symposium. 2019 (Instructor and Research Advisor).

Shadi Maleki. 2nd place Paper at SWAAG conference, \$100. 2017 (PhD Mentor).

Jeanett Bosarge. Don and Reba Blaschke Endowed Scholarship, \$500. 2017 (MS Advisor).

Ioannis Kamarinas. ESRI Graduate Award for Excellence in GIS, Texas State University. 2017 (PhD Advisor).

Jeanett Bosarge. GTU Geography Scholarship, Texas State University, \$500. 2017 (MS Advisor).

Ioannis Kamarinas. Mao-Geng Zhan Scholarship for Academic Excellence, Texas State University, \$500. 2017 (PhD Advisor).

Jeanett Bosarge. Celebrity Classic Endowed Scholarship, Texas State University, \$6,000. 2016 (MS Advisor).

Jeanett Bosarge. The Graduate College Scholarship – Liberal Arts, Texas State University, \$3,000. 2016 (MS Advisor).

Jeanett Bosarge. Graduate Merit Fellowship, Texas State University, \$2,500. 2016 (MS Advisor).

Graham Daly. Don and Reba Blaschke Endowed Scholarship, \$500. 2016 (PhD Advisor).

Grant Moss. 3rd place Poster at SWAAG conference, \$50. 2016 (MS Advisor).

Ioannis Kamarinas. 2nd place Paper at SWAAG conference, \$100. 2016 (PhD Advisor).

Ioannis Kamarinas. Jeffries Family Scholarship, Texas State University, \$500. 2016 (PhD Advisor).

Kristen Newcomer. 1st place Paper at SWAAG conference, \$250. 2015 (MS Advisor).

Ioannis Kamarinas. 1st place Poster at SWAAG conference, \$250. 2015 (PhD Advisor).

Samantha Abbott. Joe and Jerry Moore Scholarship in Water Resources, Texas State University, \$500. 2015 (MS advisor).

Samantha Abbott. Graduate Merit Fellowship, Texas State University, \$2,500. 2014-2015 (MS advisor).

Nick Wilgruber. Green Infrastructure Site Location Decision Support Tool. NNEMS Fellowship, Environmental Protection Agency, \$30,000. 2012-2014 (MA advisor).

Nick Wilgruber. OU Foundation Fellowship, Oklahoma University, \$12,000. 2012-2014 (MA advisor).
Chelsea Martin-Mikle. Green Infrastructure Site Location Decision Support Tool. NNEMS Fellowship, Environmental Protection Agency, \$30,000. 2012-2014 (MA co-advisor).
Chelsea Martin-Mikle, 2012. OU Foundation Fellowship, Oklahoma University, \$12,000. 2012-2014 (MA co-advisor).

TEACHING AND MENTORING

Courses at Texas State University

GEO 3434: Water Resources
GEO 3425: Geomorphology
GEO 4314: River Basin Management
GEO 4326/5326: Parks and Protected Places
GEO 5334: Applied Water Resources
GEO 7313: Environmental Systems Analysis
GEO 7393j: Soil & Society
GEO 7334: Geographic Aspects of Water

Courses at University of Oklahoma

GEOG 1114: Introduction to Physical Geography
GEOG 3023: Principles of Physical Geography
GEOG 3890/5990: Soil and Society
GEOG 4203/5203: Geomorphology
GEOG 5113: Quantitative Methods in Geographical Research
GEOG 5623: GIS Design Seminar
GEOG 6210: Large-scale Ecosystem Restoration

Invited Guest Lectures

Sustainability Seminar, Department of Philosophy, Texas State University, 2016
Forestry Harvest Planning, Forest Engineering, University of Canterbury, 2014
Landscape Ecology, Appalachian Laboratory, Univ. of Maryland Center for Environmental Science, 2008
Classic Readings in Ecology, Appalachian Laboratory, Univ. of Maryland Center for Environmental Science, 2007

Students Advised or Co-advised at Texas State University – last known position

Priyanjali Bose (MS) – expected August 2023
Thesis: Adaptions to drought in the Canadian River Basin, USA
Raihan Jamil (PhD) – expected August 2023
Dissertation: Spatiotemporal changes in park space associated with urban growth.
Hannah Johnson (MS Sustainability, 2023) – GIS Analyst for Environmental Consulting Firm
Thesis: An Analysis of the Effects of Distance, Activities, and Amenities on Texas State Parks Visitation
Joanna Weathersby (MS, 2023) – Grant-funded Research Assistant at TXST
Thesis: *A Broader View of Conservation: Mapping Nature and Culture in Gillespie County, Texas*
Isabelle Habegger (BS Honors, 2022) – Expected May 2022

Thesis: *Tex-essibility: An Analysis of Accessibility in Texas State Parks*
 Madeline Wade (MS, 2022) – PhD Research Assistant at Oklahoma University
 Thesis: *Blue Index San Marcos: Assessing Emotional Experiences, Values, and Patterns of Use of Waterscapes in San Marcos, Texas*

Christina Lopez (PhD, 2021) – Coastal/Watershed Coordinator, Meadows Center for Water and the Environment, Texas State University
 Dissertation: *Community Geography, Place Identity, Environmental Stewardship: What Motivates Volunteerism at Environmental Nonprofit Organizations?*

Elizabeth Davila (MAG, 2021) – GIS Analyst, Water Resources Department, Halff Associates, Inc., Austin, TX
 Thesis: *Spatiotemporal river use patterns and implications for Texas wild-rice distribution in the San Marcos River (Texas, USA) for Summer 2016*

Aaron Raper (MAG, 2020) – GIS Analyst, Water Resources Department, Halff Associates, Inc., Austin, TX
 Thesis: *Plum Creek Watershed Management: A survey and synthesis of management strategies within the context of watershed-scale changes in land use, hydrology, and water quality*

Imokhai (Theo) Tenebe (MS Engineering, 2020) – Engineering Specialist, TCEQ Dam Safety Program, Austin, TX
 Thesis: *Land use and water quality connections in the Manawatu Catchment, NZ*
 - Co-advised with Dr. Keisuke Ikehata (Civil Engineering)

Ioannis Kamarinas (PhD, 2018) – GIS Strategist for BP, Houston, TX
 Dissertation: *Geospatial analyses of terrestrial-aquatic connections across New Zealand and their influence on river water quality*

Mike Kraft (MAG, 2017) – Public health specialist in Florida
 Thesis: *Demographic Usage Patterns of Purgatory Creek Park, San Marcos, TX*

Grant Moss (MS, 2017) – The Nature Conservancy, Texas City Prairie Preserve, Houston, TX
 Thesis: *Protecting water quality and connecting protected places in Texas using riparian connectivity networks*

Kristen Newcomer (MS, 2017) – GIS specialist, Texas Natural Resources Information System (TNRIS), Texas Water Development Board (TWDB)
 Thesis: *Historical Riparian Habitat Changes of an Endangered Bird Species: Interior Least Terns along the Red River below Denison Dam*

Samantha Abbott (MS, 2016) – Project Manager at Texas Commission on Environmental Quality (TCEQ), Remediation Division
 Thesis: *Cross-scale interactions among land use, climate and river sediment loads in the Manawatu Catchment, New Zealand*

Matt Heinemann (MS, 2016) – Environmental Consultant
 Thesis: *Leveraging data mining and market segmentation to gain conservation opportunity intelligence*

Students Advised or Co-advised at University of Oklahoma – last known position

Chelsea J. Martin-Mikle (MA, 2014) – Project Coordinator for the Glacier National Park - Blackfeet Project
 Thesis: *Development of a Spatially-explicit Approach for Identifying Priority Sites for Low Impact Development in a Mixed-use Watershed*
 - Co-advised with Dr. Kirsten de Beurs (Geography & Environmental Sustainability)

Nick Wilgruber (MA, 2014) – Lecturer at Northampton Community College
 Thesis: *Land Cover Change Impacts on Stream Channel Loss*
 - Co-advised with Dr. Kirsten de Beurs (Geography & Environmental Sustainability)

Trung V. Tran (PhD, 2013) – Assistant Professor at Fayetteville State University
 Dissertation: *Landscape heterogeneity and spatio-temporal resolution considerations for mapping land cover changes*
 - Co-advised with Dr. Kirsten de Beurs (Geography & Environmental Sustainability)

Rana N. Jawarneh (PhD, 2012) – Associate Professor of GIS at Qatar University
 Dissertation: *Environmental Influences on Past and Future Urban Development in the Arkansas Red River Basin (USA), 1857-2050*

Sadiq Khan (PhD, 2011) – Data Scientist at National Geospatial-Intelligence Agency
 Dissertation: *Satellite remote sensing and hydrologic modeling for flood monitoring in data poor environments*
 - Co-advised with Dr. Yang Hong (Civil Engineering & Environmental Sciences)

Sayed Moursi (Postdoc, 2010) – Associate Professor at Qatar University
 Project: *Effects of Dam Operation on Downstream Hydrology, Riparian Vegetation, and Channel Migration Patterns*

PRESENTATIONS TO PROFESSIONAL SOCIETIES AND INSTITUTES

Over 80 (7 invited); See Appendix at end of CV

INVITED ACADEMIC SEMINARS

Vilnius University (Lithuania), Institute of Geosciences, 2019
 U.S. Geological Survey, Center for Earth Resources Observation & Science (EROS), 2017
 South Dakota State University, Geospatial Sciences Center of Excellence, 2017
 Appalachian Laboratory, University of Maryland Center for Environmental Science, 2017
 Massey University, Institute of Agriculture & Environment, 2014
 Lincoln University, Department of Environmental Management, 2014
 National Institute of Water & Atmospheric Research (Hamilton, NZ), 2014
 Virginia Tech University, Department of Forest Resources & Environmental Conservation, 2014
 University of North Texas, Department of Geography, 2013
 University of Oklahoma, Department of Geography & Environmental Sustainability, 2013
 Texas State University, Geography Department, 2013
 Horizons Regional Council (Palmerston North, NZ), 2012
 Cawthron Institute (Nelson, NZ), 2012
 University of Otago, Department of Zoology, 2012
 University of Auckland, School of Environment, 2012
 University of Waikato, Department of Biological Sciences, 2012
 National Institute of Water & Atmospheric Research (Hamilton, NZ), 2012
 University of Oklahoma, Geography Department, 2008
 Oklahoma State University, Department of Natural Resource Ecology and Management, 2008
 Chesapeake Bay Laboratory, University of Maryland Center for Environmental Science, 2008
 Appalachian Laboratory, University of Maryland Center for Environmental Science, 2007
 Horn Point Laboratory, University of Maryland Center for Environmental Science, 2007
 University of North Carolina, Geography Department, 2007
 Shippensburg University, Geography and Earth Science Department, 2007

East Carolina University, Geography Department, 2006

HONORS AND AWARDS

Outstanding Leadership Award, Department of Geography, Texas State Univ., 2022
Alumni Association Teaching Award of Honor, Texas State University, 2020
International Visiting Scholar, Vilnius University, Lithuania, 2019
Outstanding Service Award, Department of Geography, Texas State Univ., 2018
Alpha Chi Favorite Professor Award, Texas State University, 2016
Dean's Award for Excellence in Grant Funding, College of Liberal Arts, 2015
Achievement Award for Excellence in Scholarly/Creative Activity, College of Liberal Arts, 2015
Early Career Award, NASA New Investigator Program in Earth Science, 2013
Fulbright Senior Scholar, New Zealand, 2012
Nystrom Award Finalist, Association of American Geographers, 2009
Delegate for Meeting of Young Researchers in Earth Sciences, 2008
Department of Geological Sciences Fellowship, Univ. of South Carolina, 2002
Julian J. Petty Award for top graduate in Geography Department, Univ. of South Carolina, 2002
Magna cum laude, Univ. of South Carolina, 2001
Honorable Discharge, U.S. Air Force, 1999

SERVICE

Professional

Editorial Board, *Geographies* journal (2020-present)
Steering Committee of the Binghamton Geomorphology Symposium Series (2015-2020)
Chair of the Southwest Division of the American Association of Geographers (2017)
Guest-editor of *Geomorphology* journal special issue (2017)
Secretary of the Southwest Division of the American Association of Geographers (2016)
Treasurer of the Southwest Division of the Association of American Geographers (2014-2015)
Conference Session Chair and Organizer (8 total):

3. "Student Paper and Poster Competitions (4 sessions total)," Southwest Division of Association of American Geographers (SWAAG) Annual Meeting, San Antonio, TX, 2015.
2. "Land Change Science (3 sessions total)," Southwest and Great Plains-Rocky Mountain Associations of American Geographers (SWAAG-GPRM) Joint Annual Meeting, Albuquerque, NM, 2014.
1. "Landscape Controls on Ecosystem Processes," Annual Meeting of the Association of American Geographers, Washington DC, 2010.

Journal/Book reviewer (>75): The Professional Geographer (2); Journal of the American Water Resources Association (2); Geomorphology (4); Journal of Environmental Management; Earth Surface Processes and Landforms (4); Journal of the North American Benthological Society (2); Journal of Geophysical Research – Biogeosciences (2); Global Change Biology (2); Applied Geography (2); Ecology; Earth Interactions; Reviews in Engineering Geology; Remote Sensing (2); Environmental Science: Processes & Impacts; Freshwater Science (5); Remote Sensing of Environment; Ecohydrology; Water Resources Research; Environmental Management (3); IEEE Transactions on Visualization and Computer Graphics; River Research & Applications (2); Ecological Engineering; Ecological Applications; Hydrological Processes; International Journal of Applied Earth Observation and Geoinformation; PLOS

One; Social Sciences; Ambio; Water (2); Science of the Total Environment (2); Sustainability (2); Annals of the American Association of Geographers; Physical Geography; Ecology & Society; BioScience; Landscape & Urban Planning; Journal of Arid Environments; New Zealand Journal of Marine and Freshwater Research; Data; City & Environment Interactions; People and Nature; Springer Nature; InTech Open; Texas Water Journal; Heliyon; Society & Natural Resources; Geographies (2); Ecosphere
Proposal reviewer (9 total): National Science Foundation (6); United States Geological Survey; American Association for the Advancement of Science; Sam Houston State University ERG
Panel reviewer: NASA
Member: American Association of Geographers (Geomorphology, Water Resources); American Geophysical Union (Hydrology, Biogeosciences); Ecological Society of America (Biogeosciences); Society for Freshwater Science; International Association for Landscape Ecology

Texas State University (TXST), 2013-present

Faculty advisor for “Bobcat Stream Team” student organization (2016-present)
Graduate Fulbright Campus Committee (2022)
College of Liberal Arts Curriculum Committee (2018-2022)
University Corporation for Atmospheric Research, Member Representative (2013-2015)
Graduate student Committee Member (8 PhD, 16 Masters)

TXST Department of Geography, 2013-present

Water Resources Major co-Advisor (2013-present)
Scheduling Committee (Chair 2018-2022; Member 2022-present)
Associate Chair of Department (2018-2022)
Online Education Committee (2021-2022)
Alumni Reunion & Student Celebration Chair (2018-2022)
Scholarships & Awards Committee (2018-2019)
Chair, Professor of Environmental Geography Search Committee (2019-2020)
Chair/Coordinator, Colloquium Series (2014-2018)
Graduate Committee (2013-2014, 2016-2017)
Budget Staff Search Committee (2016)
Co-Organizer & Host for Career Awareness Day for 5th grade Gifted & Talented Program (2015)
Water Conservation Endowed Chair Search Committee (2014-2015)
Political Geography Faculty Search Committee (2014)
Geography Student Research Symposium (2013-2014, 2015-2016)

University of Oklahoma (OU), 2009-2013

Executive board for Kessler Atmospheric & Ecological Field Station
Graduate student Committee Member (14 PhD, 4 Masters)

OU Department of Geography & Environmental Sustainability, 2009-2013

Graduate Committee (2009-2013)
Colloquium Committee (2009-2013)
Geography Day organizer for ~100 high school students/year (2009-2012)
Department representative for new student orientation (2009-2012)
Remote Sensing Faculty Search Committee (2010)

John T. Snow Scholarship Selection Committee (2012)
Department representative for GIS Day (2012)

Media Coverage

EAHCP Steward newsletter and website, interview on “The Art of Balance,”
https://www.eahcpsteward.org/?utm_campaign=08095211-100f-4a24-a252-203cfaef3109&utm_source=so&utm_medium=mail&cid=e8d0bff2-e0a6-4edc-ad79-084e47a588f1, October 2020.
Texas State University Research Stories, <https://stories.txstate.edu/research/river-ecology.html>:
November 2018.
Texas Monthly magazine, article on “Data-Driven Solutions for Natural Spaces,” November 2018.
Chesapeake Quarterly, <http://www.chesapeakequarterly.net/V14N1/main3/>: April 2015
AGU Blogosphere, <http://blogs.agu.org/geospace/2014/12/19/new-zealand-watersheds-show-dirt-logging-grazing/>: 12/19/2014
Interview by U.S. Embassy in New Zealand,
<https://www.youtube.com/watch?v=pYBrK1O4UEQ&list=UUHdD1ujwX1fCB0CiamefSWA>: 05/30/2014
The Oklahoma Daily: 11/17/2009 (1A); 3/24/2011 (online)
The Norman Transcript: 11/18/2009 (A3); 11/19/2010 (A5); 3/22/2011(A2)
The Oklahoman: 11/19/2009 (15A)
National Public Radio, KGOU: 3/22/2011
OK News 9: 3/22/2011
OK NewsChannel 4, KFOR: 3/22/2011

Community Service and Organizations

Executive Board Member for the San Marcos Greenbelt Alliance (2018-2021)
Conservation Committee for the San Marcos Greenbelt Alliance (2018-present)
Emerald Crown Trail working group member (2017-2021)
San Marcos Greenbelt Alliance (Lifetime Member)
San Marcos River Foundation (Lifetime Member)
Invited speaker on Water Resources; Hernandez Elementary (2015-2016)

PRIVATE AND LEGAL CONSULTING (references available upon request)

Hydrologic connectivity assessment in the Arid West, USA (2021-2023)
Mitigation banks assessment for Arizona (2018-2019)
Mitigation banks assessment for a southeastern U.S. state (2018)
Jurisdictional Waters of the U.S. assessment, Arizona (2014-2015, 2017-2019)
Mitigation banks assessment and policy guidance for Colorado (2018)
Conservation and mitigation banks assessment, United States national scale (2017)
Environmental impact mitigation, Texas (2017)
River connectivity assessment for proposed dam removal, North Carolina (2014-2015)
Property boundary dispute involving river accretion vs. avulsion, Oklahoma (2011-2012)
Fluvial Geomorphology Assessment, Aiken, SC (2003-2004)

Appendix: PRESENTATIONS TO PROFESSIONAL SOCIETIES AND INSTITUTES
(Invited)**

- Elmore AJ, Ordway EM, Steele MK, Williamson MA, Nelson DR, Julian JP, Laumann KM. 2023. Envisioning a Network for Scalable Airborne Observation of Socio-Environmental Systems. *International Association of Landscape Ecology*, North America annual meeting, Riverside, CA.
- Nelson DR, Steele MK, Williamson MA, Julian JP, Elmore AJ. 2022. Human-environment archetypes of NEON field sites to promote interdisciplinarity and long-term research partnerships. *American Geophysical Union*, Fall meeting, Chicago, IL.
- Julian JP, Lopez CL, Wade M. 2022. Nature-society relational values in a riverine social-ecological system. *Southwest Division of the American Association of Geographers (SWAAG)*, Fayetteville, AR.
- Weathersby JM, Julian JP. 2022. A Broader View of Conservation: Mapping Ecosystem Services of Working Landscapes. *Southwest Division of the American Association of Geographers (SWAAG)*, Fayetteville, AR.
- Julian JP. 2022. Texas State Parks: A century of connecting nature, history, and society. *American Association of Geographers* annual meeting, New York City (virtual).
- Julian JP, Misiune I, Maleki S. 2021. Social demand for urban natural areas: A tale of two cities. *Southwest Division of the American Association of Geographers (SWAAG)*, Oklahoma City, OK.
- Weathersby JM, Julian JP. 2021. A Broader View of Conservation: Mapping Natural and Cultural Resources in a Working-lands Landscape. *Southwest Division of the American Association of Geographers (SWAAG)*, Oklahoma City, OK.
- Wade M, Julian JP. 2021. Blue Index San Marcos: Assessing Emotional Experiences, Values, and Use of Waterscapes in San Marcos, TX. *Southwest Division of the American Association of Geographers (SWAAG)*, Oklahoma City, OK.
- Jamil R, Julian JP. 2020. Urban Development and Greenspace: A Case Study of Parcel Level Spatial Distribution and Supply- Demand Scenario in Austin. *American Association of Geographers* annual meeting, Denver, CO (virtual).
- Fovargue R, Atkinson CL, Julian JP, Vaughn CC, Neeson TM. 2019. Reducing heat stress on freshwater mussels through reservoir management in a drying climate. *Ecological Society of America* annual meeting, Louisville, KY.
- Julian JP. 2019. Old Forts and New Amenities in the Southern Plains, with a Focus on Nature Tourism. *American Association of Geographers* annual meeting, Washington, DC.
- Manning A, Julian JP. 2019. What is a river?: Riparian vegetation as an indicator of stream channel presence and connectivity in arid environments. *International Association of Landscape Ecology*, U.S. annual meeting, Fort Collins, CO.
- **Julian JP, Weaver RC, Daly G. 2018. Cross-scale connections among stakeholders of freshwater ecosystem services in the San Marcos River watershed. *Mermaid Society River Guardianship Symposium*, San Marcos, TX.**
- Manning A, Julian JP. 2018. What is a river?: Riparian vegetation as an indicator of stream channel presence and connectivity in arid environments. *Southwest Division of the American Association of Geographers (SWAAG)*, Baton Rouge, LA.
- Julian JP, Weaver RC. 2018. Stream Mitigation in Colorado: Demand, Supply, and Challenges. *Southwest Division of the American Association of Geographers (SWAAG)*, Baton Rouge, LA.

- Julian JP, Weaver RC, Daly G. 2018. Social Demand and Cross-Scale Interactions in a Riverine Social-Ecological System. *International Association of Landscape Ecology*, U.S. annual meeting, Chicago, IL.
- Meitzen KM, Phillips J, Manning A, Perkins T, Julian JP. 2018. Spatial Patterns of Riparian and Geomorphic Disturbance Following Catastrophic Record Flooding on the Blanco River, Texas, USA. *International Association of Landscape Ecology*, U.S. annual meeting, Chicago, IL.
- **Julian JP, Weaver RC. 2018. Stream Mitigation in Colorado: Demand, Supply, and Challenges. Colorado River Basin Summit, *Meridian Institute*, Denver, CO.
- **Julian JP, Weaver RC. 2018. Stream Mitigation in Colorado: Demand, Supply, and Challenges. *Ecological Restoration Business Association (ERBA) 2nd Annual Policy Conference*, Washington DC.
- **Julian JP, Vaughn CC, Atkinson CL, Gates KK. 2017. “Environmental flow considerations for freshwater mussels: droughts, dams, timing, and temperature.” *Mussel Summit*, U.S. Fish & Wildlife Service, Austin, TX.
- Julian JP, Daly G, Weaver RC. 2017. Cross-scale connections among stakeholders of freshwater ecosystem services in the San Marcos River watershed: A PECS WaterSES social-ecological system case study. *Programme on Ecosystem Change and Society (PECS) 2nd annual meeting*, Oaxaca, Mexico.
- Bosarge J, Julian JP. 2017. Spatio-temporal patterns of recreational use along the upper San Marcos River, Texas, USA. *Southwest Division of the American Association of Geographers (SWAAG)*, Huntsville, TX.
- Julian JP, Weaver RC, Daly G. 2017. Cross-scale connections among stakeholders of freshwater ecosystem services in the San Marcos River watershed. *Southwest Division of the American Association of Geographers (SWAAG)*, Huntsville, TX.
- Maleki S, Julian JP, Weaver RC. 2017. Social Demand for Urban Wilderness. *Southwest Division of the American Association of Geographers (SWAAG)*, Huntsville, TX.
- Manning A, Julian JP. 2017. Ecosystem services and damage costs of federal lands: Case study of Gila National Forest, USA. *Binghamton Geomorphology Symposium*, San Marcos, TX.
- **Julian JP, Abbott SK, Kamarinas I, Meitzen KM, Fuller IC, McColl ST, Dymond J. 2017. State-shifting at the edge of resilience: River water quality responses to changes in land use intensity. *Binghamton Geomorphology Symposium*, San Marcos, TX.
- **Julian JP, Daly G. 2017. A river runs through it: San Marcos’ (Texas, USA) growing demand for freshwater. *Society for Freshwater Science annual meeting*, Raleigh, NC.
- Castro AJ, Baxter C, Running K, Atkinson C, Quintas-Soriano C, Vaughn CC, Garcia-Llorente M, Egoh B, Burnham M, Brandt J, Martin-Lopez B, Julian JP, Liao F, Norstrom A. 2017. Water scarcity and governance across Social-Ecological Systems: a Program on Ecosystem Change and Society (PECS). *Society for Freshwater Science annual meeting*, Raleigh, NC.
- Julian JP, de Beurs KM, Owsley BC. 2017. River water quality changes in New Zealand over 26 years: Responses to land management and land use intensity. *NASA Land Cover Land Use Change*, Spring Science Team Meeting, Rockville, MD.
- Julian JP, de Beurs KM, Owsley BC, Davies-Colley RJ, Ausseil AE. 2017. River water quality changes in New Zealand over 26 years: Responses to land use intensity. *American Association of Geographers annual meeting*, Boston, MA.

- Quintas-Soriano C, Castro AJ, Brandt J, Gibson D, Narducci J, Garcia-Llorente M, Burnham M, Running K, Martin-Lopez B, Vaughn CC, Baxter C, Liao F, Atkinson C, Julian JP, Egoh B, Norstrom A. 2017. Investigating water scarcity and governance across social-ecological systems (WaterSES): a program on ecosystem change and society (PECS) perspective. *Natural Capital Symposium*, Stanford University, Palo Alto, CA.
- Kamarinas I, Julian JP, Abbott S. 2017. A New Methodology for Watershed-Scale Riparian Buffer Placement to Improve Water Quality: Palmerston North, New Zealand case-study. *Urban Riparian Symposium*, Houston, TX.
- de Beurs KM, Owsley BC, Julian JP. 2016. Determining the Relative Roles of Climate and Land Use on Land Cover Changes in New Zealand. *Southwest Division of the American Association of Geographers (SWAAG)*, Denton, TX.
- Moss G, Julian JP. 2016. Connecting Protected Places in Texas using Riparian Conservation Networks. *Southwest Division of the American Association of Geographers (SWAAG)*, Denton, TX.
- Kamarinas I, Julian JP. 2016. Nonlinear Relationships between Land Use/Cover Change and Sediment Runoff on an Intensively Managed Landscape. *Southwest Division of the American Association of Geographers (SWAAG)*, Denton, TX.
- Julian JP, de Beurs KM, Owsley BC, Davies-Colley RJ. 2016. Spatiotemporal Connections between Land Use and River Water Quality across 77 Catchments in New Zealand over 26 years. *Southwest Division of the American Association of Geographers (SWAAG)*, Denton, TX.
- Daly G, Julian JP. 2016. Social Demand of a Blue Space: Use, Value, and Perceptions of the San Marcos River, Texas. *Southwest Division of the American Association of Geographers (SWAAG)*, Denton, TX.
- Julian JP, de Beurs KM, Owsley BC, Davies-Colley RJ. 2016. Spatiotemporal Connections between Land Use and River Water Quality across 77 Catchments in New Zealand over 26 years. *Binghamton Geomorphology Symposium*, Fort Collins, CO.
- Daly G, Julian JP, Weaver R. 2016. A River Runs Through It: How Texas State University students use and value their San Marcos River. *American Association of Geographers*, San Francisco, CA.
- Tran TV, de Beurs KM, Julian JP. 2016. Monitoring Forest Disturbances in Southeast Oklahoma using Landsat and MODIS Images. *American Association of Geographers*, San Francisco, CA.
- Julian JP, Kamarinas I, de Beurs KM, Owsley BC, Davies-Colley RJ. 2016. Twenty-five years of changes in agricultural production, land use/cover, and river water quality in New Zealand. *American Association of Geographers*, San Francisco, CA.
- Kamarinas I, Julian JP, Owsley BC, de Beurs KM. 2016. Using multi-resolution data to understand how land cover changes affect sediment runoff to rivers across multiple scales. *American Association of Geographers*, San Francisco, CA.
- Abbott SK, Julian JP, Kamarinas I, Dymond J. 2015. Effects of Land Use and Extreme Precipitation on Hillslope Erosion and Suspended Sediment Yields in the Manawatu River, New Zealand. *American Geophysical Union*, Fall Meeting, San Francisco, CA.
- Abbott SK, Julian JP, Kamarinas I, Dymond J. 2015. Effects of land use and extreme precipitation on hillslope erosion and suspended sediment yields in the Manawatu River, New Zealand. *Southwest Division of the Association of American Geographers*, San Antonio, TX.

- Kamarinas I, Julian JP. 2015. Mapping stream networks in New Zealand using climate, geology and source of flow. *Southwest Association of American Geographers*, San Antonio, TX.
- Julian JP, Kamarinas I, de Beurs KM, Owsley BC, Davies-Colley RJ. 2015. Twenty-five years of changes in agricultural production, land use/cover, and river water quality in New Zealand. *Southwest Association of American Geographers*, San Antonio, TX.
- Newcomer KB, Julian JP, Meitzen K. 2015. Historical riparian habitat changes of an endangered bird species: Interior Least Terns along the Red River below Denison Dam. *Southwest Division of the Association of American Geographers*, San Antonio, TX.
- Daly G, Julian JP. 2015. A River Runs Through It: How Texas State University students use and value their San Marcos River. *Southwest Division of the Association of American Geographers*, San Antonio, TX.
- Julian JP, Kamarinas I, de Beurs KM, Owsley BC, Hughes A. 2015. Shifting sediment runoff regimes in a New Zealand watershed resulting from land use and climate changes. *International Association of Landscape Ecology*, World Congress, Portland, OR.
- Julian JP, de Beurs KM, Owsley BC, Kamarinas I. 2015. Land Management Impacts on Water Quality in New Zealand across Political Boundaries. *NASA Carbon Cycle & Ecosystems Joint Science Workshop*, College Park, MD.
- Julian JP, Castro AJ, Vaughn CC, Atkinson CL. 2014. Effects of Drought and Water Resource Management on Biophysical and Sociocultural Ecosystem Services in South-Central United States. *American Geophysical Union*, Fall Meeting, San Francisco, CA.
- Owsley BC, de Beurs KM, Julian JP. 2014. A Unified Disturbance Analysis for Forests and Grasslands in New Zealand. *AGU Fall Meeting*, GC31A-0442, Wednesday December 17, 2014.
- Kamarinas I, Julian JP, Owsley BC, de Beurs KM, Hughes A. 2014. Assessing Landscape Connectivity and River Water Quality Changes Using an 8-day, 30-Meter Land Cover Dataset. *AGU Fall Meeting*, H31I-0755, Wednesday December 17, 2014.
- Abbott SK, Kamarinas I, Julian JP, Dymond J. 2014. Legacy Effects of Land Use and an Extreme Precipitation Event on River Sediment Loads in the Manawatu Catchment, New Zealand. *Southwestern Association of American Geographers*, Albuquerque, NM.
- Owsley BC, de Beurs KM, Julian JP. 2014. A Unified Disturbance Analysis for Forests and Grasslands in New Zealand. *Southwestern Association of American Geographers*, Albuquerque, NM.
- Kamarinas I, Julian JP, Owsley BC, de Beurs KM, Hughes A. 2014. Identifying Critical Source Areas of Sediment Runoff and their Effect on River Water Quality Using High-Resolution Spatio-Temporal Datasets. *Southwestern Association of American Geographers*, Albuquerque, NM.
- Julian JP, Daly G, Dascher DD, Espinoza JY, Flores-Ortiz HW, Newcomer KB. 2014. Water Resources and Protected Areas in the South-Central United States. *Southwestern Association of American Geographers*, Albuquerque, NM.
- Newcomer KB, Julian JP, Meitzen K. 2014. Spatiotemporal changes in Interior Least Tern sandbar habitat along the Red River below Denison Dam. *Southwestern Association of American Geographers*, Albuquerque, NM.
- Daly G, Julian JP. 2014. Changing Ecosystem Services in the Fastest Growing City in the Nation. *Southwestern Association of American Geographers*, Albuquerque, NM.
- Tran TV, de Beurs KM, Julian JP. 2014. Monitoring and Classifying Forest Disturbances in Southeastern Oklahoma from 2000 to 2011 using High Spatiotemporal Resolution Imagery. *Southwestern Association of American Geographers*, Albuquerque, NM.

- Castro AJ, Garcia-Llorente M, Vaughn CC, Julian JP, Martin-Mikle C. 2014. Ecosystem Services across Watersheds: A Systematic Review. *Society for Freshwater Science*, Joint Aquatic Sciences Meeting, Portland, OR.
- Wilgruber NA, Julian JP, de Beurs KM, Mayer PM. 2014. Land Cover Impacts on Stream Channel Loss in Central Oklahoma from 1874 to 2010. *Society for Freshwater Science*, Joint Aquatic Sciences Meeting, Portland, OR.
- Julian JP, de Beurs KM, Owsley BC, Kamarinas I. 2014. Land Management Impacts on Water Quality in New Zealand across Political Boundaries. *NASA Land Cover Land Use Change*, Spring Science Team Meeting, Rockville, MD.
- Owsley BC, de Beurs KM, Julian JP. 2014. A fused disturbance model for land management analysis in New Zealand. *Global Land Project*, 2nd Open Science Meeting, Berlin, Germany.
- Martin-Mikle CJ, de Beurs KM, Julian JP, Mayer PM. 2013. Development of a Tool for Siting Low Impact Development in Urban Watersheds. *American Geophysical Union*, Fall Meeting, San Francisco, CA.
- Julian JP, Owsley BC, de Beurs KM, Kamarinas I, Hughes A. 2013. Interactive effects of climate and weekly land cover changes on water quality patterns in a subtropical catchment in New Zealand. *American Geophysical Union*, Fall Meeting, San Francisco, CA.
- Owsley BC, de Beurs KM, Julian JP. 2013. Landsat and MODIS fusion for disturbance analysis in New Zealand. *American Geophysical Union*, Fall Meeting, San Francisco, CA.
- de Beurs KM, Owsley BC, Julian JP, Henebry GM. 2013. AVHRR, MODIS and Landsat time series for the monitoring of vegetation changes around the world. *American Geophysical Union*, Fall Meeting, San Francisco, CA.
- Owsley BC, de Beurs KM, Julian JP. 2013. A fused disturbance model for disaster assessment and planning. CaGIS/ASPRS, San Antonio, TX.
- Martin-Mikle CJ, de Beurs KM, Julian JP. 2013. "A Suite of GIS-Based Tools for Siting Low Impact Development in an Urban Watershed." *Oklahoma Water Resources Research Institute*, Governor's Water Conference & OWRRI Water Research Symposium, Midwest City, OK.
- Wilgruber NA, Julian JP, de Beurs KM. 2013. "Stream Channel Burial in a Mixed Land-use Watershed: A Case Study of the Lake Thunderbird Watershed in Central Oklahoma from 1874 to 2010." *Oklahoma Water Resources Research Institute*, Governor's Water Conference & OWRRI Water Research Symposium, Midwest City, OK.
- Vaughn CC, Julian JP, Atkinson CL, Gates KK, Allen DC, Galbraith HC, Spooner DE. 2013. "Freshwater Mussels and Environmental Flows in Southeastern Oklahoma." *Oklahoma Water Resources Research Institute*, Governor's Water Conference & OWRRI Water Research Symposium, Midwest City, OK.
- **Julian JP, Gardner RH. 2013. "Land Cover Effects on Watershed Hydrologic Memory." *Center for Integrated Earth System Science*, Water Forum III, Austin, TX.
- Vaughn CC, Julian JP, Atkinson CL. 2013. "Modeling the Relationship between Mussel Ecosystem Services and Environmental Flows." *Society for Freshwater Science*, Jacksonville, FL.
- Martin-Mikle CJ, Wilgruber NA, de Beurs KM, Julian JP. 2013. "Riparian Buffer Siting Decision Support Tool for an Urban Watershed." *International Association of Landscape Ecology*, Annual Meeting, Austin, TX.

- Wilgruber NA, Julian JP, de Beurs KM, Martin-Mikle CJ. 2013. "The evolving drainage network of urban watersheds: A case study of the Lake Thunderbird watershed in central Oklahoma from 1874 to 2010." *International Association of Landscape Ecology*, Annual Meeting, Austin, TX.
- Tran TV, de Beurs KM, Julian JP. 2013. "Detecting Rapid Forest Disturbance in a Mixed-forest Landscape: Southeast Oklahoma 2000-2011." *International Association of Landscape Ecology*, Annual Meeting, Austin, TX.
- Julian JP. 2013. "Riparian land use and bio-hydro-geomorphic feedbacks along a large floodplain-river system in the Great Plains from 1820 to 2008." *International Association of Landscape Ecology*, Annual Meeting, Austin, TX.
- Vaughn CC, Julian JP, Atkinson CL. 2013. "Modeling the Relationship between Mussel Ecosystem Services and Environmental Flows." *Freshwater Mollusk Conservation Society*, Guntersville, AL.
- Julian JP, de Beurs KM. 2013. Land Management Impacts on Water Quality in New Zealand across Political Boundaries. *NASA Land Cover Land Use Change*, Spring Science Team Meeting, Rockville, MD.
- Vaughn CC, Julian JP. 2013. "Incorporating ecological costs and benefits into environmental flow recommendations for Oklahoma rivers." *Oklahoma Water Resources Research Institute*, Stillwater, OK.
- **Julian JP, Gardner RH. 2012. "Land Cover Effects on Watershed Runoff Patterns: A Regional Perspective using Power Spectral Analyses." *American Geophysical Union*, Fall Meeting, San Francisco, CA.
- Tran TV, Julian JP, de Beurs K. 2012. "Effects of Landscape Characteristics on the Accuracy of Subpixel Classification." *Association of American Geographers*, Annual Meeting, New York, NY.
- Guinn SM, Fitzpatrick M, Julian JP, Elmore AJ. 2011. "Mapping Headwater Streams in the Potomac River Basin." *Maryland Water Monitoring Council*, 17th Annual Meeting, Baltimore, MD.
- Elmore AJ, Julian JP, Guinn SM, Weitzell R, Fitzpatrick MC. 2011. "A river runs under it: Modeling the distribution of streams and stream burial in large river basins." *American Geophysical Union*, Fall Meeting, San Francisco, CA.
- Vaughn CC, Julian JP, Atkinson CL. 2011. "Incorporating ecological costs and benefits into environmental flow recommendations: Ecosystem services provided by freshwater mussels." *Ecological Society of America*, Annual Meeting, Austin, TX.
- Julian JP, Elmore AJ, Guinn SM, Fitzpatrick M. 2011. "Where do streams really begin?: An ecoregion perspective in the Mid-Atlantic U.S." *Ecological Society of America*, Annual Meeting, Austin, TX.
- Vaughn CC, Julian JP, Atkinson CL, Allen DC. 2011. "How do we quantify ecosystem services provided by freshwater mussels?" *North American Benthological Society*, Annual Meeting, Providence, RI.
- Elmore AJ, Guinn SM, Julian JP, Weitzell R. 2011. "Headwater stream channel mapping and impact assessment in the Mid-Atlantic, USA." *Geological Society of America*, Northeastern and North-Central Joint Annual Meeting, Pittsburgh, PA.
- Jawarneh RN, Julian JP. 2011. "Environmental Influences on Past and Future Urban Development around Little Rock, Arkansas (USA) 1857-2050." *Association of American Geographers*, Annual Meeting, Seattle, WA.

- Tran TV, Julian JP. 2011. "A Subpixel Approach to Understand Land Cover Change in the Arkansas-Red River Basin." *Association of American Geographers*, Annual Meeting, Seattle, WA.
- Julian JP, Gardner RH. 2011. "Land Cover Influences on Watershed Runoff Patterns." *Association of American Geographers*, Annual Meeting, Seattle, WA.
- Julian JP. 2010. "Shedding light upon landscape controls on primary productivity in rivers." *Association of American Geographers*, Annual Meeting, Washington, DC.
- Julian JP. 2009. "Basin-scale consequences of agricultural land use on light availability and primary production in rivers." *Association of American Geographers*, Annual Meeting, Las Vegas, NV.
- Julian JP, Stanley EH, Doyle MW. 2008. "Benthic Light Availability Model (BLAM): Application to basin-scale gross primary productivity in rivers." *Ecological Society of America*, Annual Meeting, Milwaukee, WI.
- Julian JP, Doyle MW, Stanley EH. 2008. "Basin-scale hydrogeomorphic controls on riverine light availability." *Association of American Geographers*, Annual Meeting, Boston, MA.
- Gardner RH, Julian JP, Elmore A, Lookingbill T. 2008. "Assessing the Consequences of Land Use Change in the Upper Potomac." *Metropolitan Washington Council of Governments*, Potomac Monitoring Forum, Berkeley Springs, WV.
- Julian JP, Lookingbill T, Elmore A, Gardner RH. 2007. "Potomac River Ecosystem Project: Basin-scale controls on ecosystem processes." *Maryland Water Monitoring Council*, 13th Annual Meeting, Baltimore, MD.
- Julian JP. 2007. "How wide does my channel need to be?: Incorporating bank shear stress into natural channel design." *Canaan Valley Institute*, Mid-Atlantic Stream Restoration Conference, Cumberland, MD.
- Riggsbee JA, Julian JP, Doyle MW, Wetzel RG. 2007. "Dam Removal as River Restoration: Biological, Physical, and Chemical Responses." *River Restoration Northwest*, Stream Restoration Design Symposium, Stevenson, WA.
- Julian JP, Doyle MW, Stanley EH. 2007. "Light in Rivers: Hydrogeomorphic Controls and Spatial Trends." *North American Benthological Society*, 55th Annual Meeting, Columbia, SC.
- Riggsbee JA, Julian JP, Doyle MW, Wetzel RG. 2007. "Effects of Suspended Sediments on Downstream Biogeochemistry following Dam Removal." *North American Benthological Society*, 55th Annual Meeting, Columbia, SC.
- Julian JP, Doyle MW, Stanley EH. 2006. "BLAM (Benthic Light Availability Model): A proposed model of hydrogeomorphic controls on light in rivers." *American Geophysical Union*, Fall Meeting, San Francisco, CA.
- Julian JP, Riggsbee JA, Doyle MW, Stanley EH, Zahn SE. 2006. "Hydro-geomorphic controls and anthropogenic influences on light availability in rivers." *Binghamton Geomorphology Symposium*, 37th International Meeting, Columbia, SC.
- Julian JP, Torres R. 2006. "Predicting Erosion Rates of Cohesive Riverbanks." *NC Stream Restoration Institute*, Southeast Regional Stream Restoration Conference, Charlotte, NC.
- Riggsbee JA, Julian JP, Doyle MW, Wetzel RG. 2006. "Sediment and nutrient fluxes following dam removal." *NC Stream Restoration Institute*, Southeast Regional Stream Restoration Conference, Charlotte, NC.
- Riggsbee JA, Doyle MW, Julian JP, Wetzel RG. 2005. "Channel Adjustment and Riparian Zone Recovery Following the Removal of a Low-Head Dam in North Carolina." *American Society of Civil Engineers*, Watershed Management Conference, Williamsburg, VA.

- Riggsbee JA, Wetzel RG, Doyle MW, Julian JP. 2005. "Floodplain, Wetland, and Channel Biogeochemical Relationships following Dam Removal on a Coastal Plain River." *Society of Wetland Scientists*, 26th Annual Meeting, Charleston, SC.
- Julian JP, Torres R. 2005. "Hydraulic Erosion of Cohesive Riverbanks in Response to Urban Runoff." *American Geophysical Union – North American Benthological Society*, Joint Assembly, New Orleans, LA.