

# Derek J. Martin, Ph.D.

375 Rankin Science West  
Appalachian State University  
Boone, North Carolina 28607  
[martindj1@appstate.edu](mailto:martindj1@appstate.edu)  
419-704-8000

## EDUCATION

<b>Ph.D.</b>	Geography	University of Tennessee	Knoxville, TN	2014
<b>M.S.</b>	Geospatial Science	Missouri State University	Springfield, MO	2005
<b>B.S.</b>	Biology (Ecology Conc.)	Lake Superior State University	Sault Ste. Marie, MI	2002

## APPOINTMENTS

<b>Associate Professor of Geography</b> , Appalachian State University	Boone, NC	2020-Present
<b>Graduate Program Director</b> , Appalachian State University	Boone, NC	2018-Present
<b>Assistant Professor of Geography</b> , Appalachian State University	Boone, NC	2014-2019
<b>Research Assistant</b> , The University of Tennessee	Knoxville, TN	2013-2014
<b>Teaching Associate</b> , The University of Tennessee	Knoxville, TN	2010-2013
<b>Research Specialist</b> , Ozarks Environmental and Water Resources Institute	Springfield, MO	2007-2010
<b>GIS Technician</b> , Upper Mississippi River Basin Association	St. Paul, MN	2005-2007

## GRANTS AND AWARDS (External)

Praskievicz, S., **Martin, D.J.** 2021. *Large wood in low-gradient floodplain rivers: Spatial distribution, physical controls, and geomorphic effects*. National Science Foundation, Geomorphology and Land Use Dynamics (GLD). 2021-2024. **\$353,216. FUNDED**

### FUNDED

Gangloff, M., **Martin, D.J.** 2020. *Biotic and geomorphic monitoring of the Ward's Mill Dam removal, Watauga River, North Carolina*. American Rivers. 2020-2023. **\$55,103. FUNDED**

**Martin, D.J.**, Montoya, N. 2019. *Development of a hydrological monitoring network for Peru's Cordillera Vilcanota*. National Geographic Extreme Environments: Alpine Climate Change. 2020-2021. **\$99,998. Not Funded**

**Martin, D.J.**, Wemple, B. 2018. *Fluvial carbon export from the neotropical páramo grasslands of the Northern Andes*. National Geographic Explorer Grant. 2018-2019. **\$28,218. Not Funded**

Pavlowsky, R.T., Bendix, J., **Martin, D.J.**, Dogwiler, T. 2017. *Impacts of an extreme flood on riparian forests and large woody debris in the Ozark Highlands*. National Science Foundation RAPID. **\$40,000. FUNDED**

**Martin, D.J.** 2016. *Stream bank erosion in páramo ecosystems: Implications for fluvial export of organic carbon*. Oak Ridge Associate Universities Ralph E. Powe Junior Faculty Enhancement Award. **\$10,000. FUNDED**

**Martin, D.J.** 2014. *Identifying spatial patterns of large woody debris deposition in a mid-gradient, Ozark river system*. John Fraser Hart Ph.D. Honors Paper Award, Southeast Division Association of American Geographers. **\$1,000. AWARDED**

## GRANTS AND AWARDS (Internal)

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- Martin, D.J.** 2021. *Expanding our study abroad to the Tropical Andes to include Ecuador*. Faculty International Travel Grant, Appalachian State University. **\$3,000.**
- Martin, D.J.** 2020. *Evaluating the geomorphic impacts of the Ward's Mill Dam removal on the Watauga River*. Graduate Research Associate Mentor (GRAM) Award, Appalachian State University. **\$24,000.**
- Martin, D.J.** 2019. *Soil organic carbon storage in valley bottom landforms of the upper Ningar River, Ecuador*. University Research Council grant, Appalachian State University. **\$4,958.**
- Martin, D.J.** 2019. *Monitoring the impacts of removing small dams in southern Appalachian Rivers*. Student and Faculty Enhancement (SAFE) grant, Appalachian State University. **\$500.**
- Martin, D.J.** 2016. *Chloride toxicity in the Upper South Fork of the New River*. Graduate Research Associate Mentor (GRAM) Award, Appalachian State University. **\$24,000.**
- Martin, D.J.** 2015. *Geomorphic characterization of the Ningar River, a páramo-draining river system in the Ecuadorian Andes*. University Research Council grant, Appalachian State University. **\$3,049.**
- Martin, D.J.** 2015. *Establishing geomorphic monitoring stations along the Ningar River, a páramo-draining river system in the Ecuadorian Andes*. Board of Trustees International Research Grant, Appalachian State University. **\$2,500.**
- Martin, D.J.** 2013. *A geospatial characterization of large woody debris in the Big River, Missouri Ozarks*. Yates Dissertation Fellowship, The Graduate School, University of Tennessee. **\$15,000.**
- Martin, D.J.** 2012. *A geospatial characterization of large woody debris in the Big River, Missouri Ozarks*. McCroskey Foundation Grant, Department of Geography, University of Tennessee. **\$500.**
- Martin, D.J.** 2012. *Making a more active physical geography classroom*. GTA@OIT Teaching Associate Grant, University of Tennessee. **\$500.**
- Martin, D.J.** 2010 – Shipley-Swan Graduate Fellowship, University of Tennessee **\$5,000.**

## PUBLICATIONS

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- Martin, D.J.**, Pavlowsky, R.T., Bendix, J., Dogwiler, T. *Fluvial wood loading as a result of a "500 year" flood event in the Missouri Ozarks*. Accepted/Under revision at **Physical Geography**.
- McDade, B., **Martin, D.J.**, van de Gevel, S., and Mitchel, J. 2020. *Impacts of the hemlock woolly adelgid (*Adelges tsugae*) on headwater stream large woody debris loads in the southern Appalachian Mountains*. **The Southeastern Geographer**.
- Rose, L.D., Akob, D.M, Tuberty, S.R., Corsi, S.R., DeCicco, L.A., Colby, J.D. and **Martin, D.J.** 2019. *Use of high-through-put screening results to prioritize chemicals for potential adverse biological effects within a West Virginia watershed*. **Science of the Total Environment** 677:362-372. DOI:10.1016/j.scitotenv.2019.04.180
- Martin, D.J.**, Ely, C., Wemple, B. 2019. *Stream bank erosion in an Andean páramo river system: Implications for hydro-development and carbon dynamics in the neotropical Andes*. **Journal of Mountain Science** 16(2)243-255.  
DOI: 10.1007/s11629-018-5110-3
- Rose, L.D., Akob, D.M, Tuberty, S.R., Corsi, S.R., DeCicco, L.A., Colby, J.D. and **Martin, D.J.** 2018. *Chemistry of waters collected in the Wolf Creek and Buffalo Creek watershed in West Virginia in 2016: U.S. Geological Survey data release*.  
DOI: 10.5066/P9WE8RDV.

## PUBLICATIONS (CONTINUED)

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- Ely, C., and **Martin, D.J.** 2018. *Investigating the Geomorphic characteristics of an Amazonian headwater stream draining a Páramo ecosystem.* **Physical Geography**. DOI: 10.1080/02723646.2018.1513289
- Martin, D.J.** Tran, L., Harden, C.P., and Pavlowsky, R.T. 2018. *Identifying controls on in-channel wood deposition locations in a low-gradient, variably confined alluvial river system.* **Progress in Physical Geography** 42(2):139-161. DOI: 10.1177/0309133318759613
- Pavlowsky, R.T., Lecce, S., Owen, M., and **Martin, D.J.** 2017. *Legacy sediment, lead, and zinc storage in channel and floodplain deposits of the Big River, Old Lead Belt mining district, Missouri, USA.* **Geomorphology** 299:54-75. DOI: 10.1016/j.geomorph.2017.08.042
- Martin, D.J.**, Pavlowsky, R.T., and Harden, C.P. 2016. *Reach-scale characterization of large woody debris in a low-gradient, Midwestern USA river system.* **Geomorphology** 262:91-100. DOI: 10.1016/j.geomorph.2016.03.005
- Keck, B.P., Marion, Z.H., **Martin, D.J.**, Kaufman, J.C., Harden, C.P., Schwartz, J.S., and Strange, R.J. 2014. *Fish functional traits correlated with environmental traits in a temperate biodiversity hotspot.* **PLoS ONE** 9(3): e93237. DOI: 10.1371/journal.pone.0093237.
- Martin, D.J.**, and Pavlowsky, R.T. 2011. *Spatial patterns of channel instability in an Ozark river, SW Missouri.* **Physical Geography** 32 (5):445-468. DOI: 10.2747/0272-3646.32.5.445
- Lecce, S.A., Pavlowsky, R.T., Bassett, G.S., and **Martin, D.J.** 2011. *Metal contamination from gold mining in the Cid District, North Carolina.* **Physical Geography** 32 (5):469-495. DOI: 10.2747/0272-3646.32.5.469
- Pavlowsky, R.T., Lecce, S., Bassett, G. and **Martin, D.J.** 2010. *Legacy Hg-Cu contamination of active stream sediments in the Gold Hill mining district, North Carolina.* **Southeastern Geographer** 50 (4) 503522.

## MASTERS THESES DIRECTED AND SERVED

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- Platt, J. **CURRENT.** *Short and long term impacts of dam removal on TSS transport: A case study from the Watauga River, North Carolina.* **Martin, D.J.**, Mayfield, M., Gangloff, M., Tuberty, S.
- Williams, Q. **CURRENT.** *Geomorphic VARIABILITY of the Watauga River in anticipation of the removal of Ward's Mill Dam, North Carolina.* Committee: **Martin, D.J.** (Chair), Mayfield, M., Gangloff, M.
- Cappel, B. 2021. *Geocomputational analysis of microhydro generation site parameters.* Committee: Colby, J. (Chair), Summerville, B. **Martin, D.J.**
- McDade, B. 2019. *Impacts of the hemlock woolly adelgid (Adelges tsugae) on headwater stream wood loads in the southern Appalachian Mountains.* Committee: **Martin, D.J.** (Chair), Van de Gevel, S., Mitchell J.
- Rose, L. 2019. *Use of high-through-put screening results to prioritize chemicals for potential adverse biological effects within a West Virginia watershed.* Committee: Tuberty, S.R. (Chair), Akob, D.M, Corsi, S.R., DeCicco, L.A., Colby, J.D. and **Martin, D.J.**
- Sanders, Z. 2018. *Chloride toxicity in the Upper South Fork of the New River: Implications for watershed health and aquatic life.* Committee: **Martin, D.J.** (Chair), Colby, J, Gu, C.
- Ely, C. 2017. *A geomorphic characterization of an Ecuadorian páramo river.* Committee: **Martin, D.J.** (Chair), Gu, C., Mayfield, M.

## MASTERS INTERNSHIPS DIRECTED AND SERVED

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Bowen, J. 2021. *In Progress*. Committee: **Martin, D.J.** (Chair)

Blaszyk, Matthew. 2021. *Working With the City of Rock Hill, south Carolina's Long-Range Planning Department to Create an Existing Conditions Report for the North Anderson Road Corridor*" Committee: Crepeau, R. (Chair), **Martin, D.J.**

Blaszyk, Patrick. 2021. *Assisting the Town of Indian Trail Planning Department with Day-to-Day Planning-Related Tasks*. Committee: Crepeau, R. (Chair), **Martin, D.J.**

Gastelle, N. 2021. *Project Homes: Keep RVA Cool*. Committee: **Martin, D.J.** (Chair), Shay, E.

Magee, T. 2020. *Promoting the Culture, Values, and Resources of Northwestern North Carolina through Land Prioritization Planning*. Blue Ridge Conservancy. Committee: **Martin, D.J.** (Chair), Sugg, M.

Spagnolo, W. 2019. *Water Quality Monitoring with the High Country Office of Mountain True*. Committee: **Martin, D.J.** (Chair), Mayfield, M.

McMahan, M. 2018. *Chandler Concrete*. Committee: **Martin, D.J.** (Chair), Schroeder, K.

Johnson, K. 2016. *Land Surveying with Dedmon Surveys*. Committee: **Martin, D.J.** (Chair), Schroeder, K.

## INVITED PRESENTATIONS

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**Martin, D.J.** 2017. *You are here: Using geographic technologies to engage students*. **Tech 4 Teaching Fair**, Appalachian State University, Boone, North Carolina

**Martin, D.J.** 2015. *Reading the river: How geographers look at patterns to understand process in river systems*. **Geography Awareness Week Seminar Series**, Missouri State University, Springfield, Missouri.

**Martin, D.J.** 2014. *Examining the fluvial contaminant legacies of historical mining operations: Case studies from the North Carolina Piedmont and Missouri Ozarks*. **Department of Geography and Planning seminar series lecture**. Appalachian State University, Boone, North Carolina.

**Martin, D.J.** 2013. *Where's the wood?: A geospatial analysis of fluvial wood deposition in a low gradient, Midwestern river system*. **Department of Geography colloquium series lecture**. University of Tennessee, Knoxville, Tennessee

**Martin, D.J.** 2009. *Channel disturbance in Ozark rivers*. **Guest Lecture - Watershed Hydrology Class**. Department of Geography, Geology, and Planning, Missouri State University, Springfield, Missouri, April 2009.

## CONFERENCE PRESENTATIONS

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**Martin, D.J.**, Pavlowsky, R.T., Bournival, L., Bendix, J. Dogwiler, T. 2020. *Impacts of a large flood (~1,000 yr) on in-channel wood loads in the North Fork River Basin, Ozark Mountains, Missouri*. **Annual meeting of the American Association of Geographers**, Seattle, WA (Virtual).

Kinlaw, T., Colby, J., **Martin, D.J.**, Tuberty, S., Goughnour, E., Sanders, E, Kuntz, C., Spagnolo, W., and Buckner, G. 2019. *Local and Global Flow Accumulation Threshold and Drainage Line Analysis in the Upper South Fork of the New River*. New River Symposium, Boone, NC

Sanders, C, Colby, J, **Martin, D.J.**, Goughnour, E, Kuntz, N, Spagnolo, W, Buckner, G, Tuberty, S, Selong, J. 2019. *Effects of Land Cover and Riparian Buffers on Cold-Water Fish Assemblages in Upper South Fork New River Headwater Streams*. New River Symposium, Boone, NC

## CONFERENCE PRESENTATIONS (CONTINUED)

**Martin, D.J.**, Pavlowsky, R.T., Bendix, J., Dogwiler, T. 2019. *Impacts of a large flood (~1,000 yr) on in-channel wood loads in the North Fork River Basin, Ozark Mountains, Missouri. Annual meeting of the Southeastern Division American Association of Geographers*, Wilmington, North Carolina.

Tuberty, S., Colby, J., **Martin, D.J.**, 2019. *The AppAqua Research Cluster at Appalachian State University: An Interdisciplinary, Long Term Monitoring Effort on the Upper South Fork of the New River*. New River Symposium, Boone, NC

Hess, J., Pavlowsky, R.T., Dogwiler, T., Bendix, J., **Martin, D.J.**, Bournival, L. 2019. *Catastrophic flood effects on riparian forests in Mark Twain National Forest, Southern Missouri. Annual Missouri Natural Resources Conference*, Osage Beach, Missouri.

Kinlaw T., Colby, J., **Martin, D.J.**, Tuberty, S. Goughnour, E., Sanders, C. Kuntz, N., Spagnolo, W., and Buckner, G. 2019. *Upper South Fork of the New River: Drainage Line Generation, Comparison, and Accuracy Assessment*. NCGIS Conference, Winston-Salem, NC.

Goughnour, E., Colby, J., **Martin, D.J.**, Tuberty, S., Sanders, C., Kuntz, N., Kinlaw, T., Spagnolo, W. 2018. *Water Quality and Quantity Data Collection in the Upper South Fork of the New River: Implications of Hurricane Florence*. Poster, Annual Meeting of the Southeastern Division of the Association of American Geographers, Johnson City, TN, November 18-19.

Wemple, B., Schloegle, C, Roske, M, Aravelo, P., **Martin, D.** 2018. *Building partnerships for long-term water monitoring in the southern Ecuadorian Andes. Joint Conference on Forests and Water*, Valdivia, Chile.

**Martin, D.J.**, Pavlowsky, R.T., Bournival, L., Bendix, J. Dogwiler, T. 2018. *Impacts of a large flood (~1,000 yr) on in-channel LWD loads in the North Fork River Basin, Ozark Mountains, Missouri. Annual meeting of the Southeastern Division American Association of Geographers*, Johnson City, Tennessee.

Tuberty, S., Colby, J., **Martin, D.J.**, Gu, C., Sanders, C., Goughnour, E., Sanders, Z., Fleetwood, M. 2018. *The trouble with trolls: Applications and challenges of using aquatic data sondes in the Upper South Fork of the New River drainage. Carolinas Area Benthologists Workshop*, Hot Springs, North Carolina.

Bournival, L., Pavlowsky, R.T., **Martin, D.J.** 2018. *Distribution of Large Woody Debris after a big flood, North Fork Watershed, Missouri Ozarks. Annual meeting of the American Association of Geographers*, New Orleans Louisiana.

Bendix, J., Pavlowsky, R.T., **Martin, D.J.**, and Dogwiler, T. 2018. *Impact of an Extreme Flood on Riparian Forests in the Missouri Ozarks. Annual meeting of the American Association of Geographers*, New Orleans, Louisiana.

Sanders, Z., and **Martin, D.J.** 2018. *Total Suspended Sediments and Chloride in Southern Appalachian Headwater Streams: Implications for Watershed Health. Annual meeting of the American Association of Geographers*, New Orleans, Louisiana.

McDade, B., and **Martin, D.J.** 2018. *Hemlock Woolly Adelgid Induced Decline of Eastern Hemlock and Consequences for Southern Appalachian Streams. Annual meeting of the American Association of Geographers*, New Orleans, Louisiana.

**Martin, D.J.**, Ely, C. and Wemple, B. 2017. *Stream bank erosion in páramo ecosystems: Assessing the potential for fluvial export of organic carbon. 9<sup>th</sup> International Conference on Geomorphology*, New Delhi, India.

**Martin, D.J.**, Ely, C. 2017. *Stream bank erosion in páramo ecosystems: Assessing the potential for fluvial export of organic carbon. Annual meeting of the American Association of Geographers*, Boston, Massachusetts.

**Martin, D.J.**, Ely, C., Finan, K. 2016. *Stream bank erosion in páramo ecosystems: Assessing the potential for fluvial export of organic carbon. Annual meeting of the American Association of Geographers*, San Francisco, California.

Colby, J., Balcomb, J., Carlyle, C., Swinson, B., Turner, A., Cockerill, K., Gu, C. **Martin, D.J.**, Tuberty, S., Ely, C., Rudolph, J. 2016. *Southern Appalachian headwater stream research: The Upper South Fork of the New River Watershed. Annual meeting of the American Association of Geographers*, San Francisco, California.

## CONFERENCE PRESENTATIONS (CONTINUED)

- Pavlowsky, R.T., Pierson, M., Lecce, S., **Martin, D.J.**, Owen, M. 2015. *Channel and floodplain management of contaminated legacy sediment in Big River, Old Lead Belt, Missouri*. **Annual meeting of the Association of American Geographers**, San Francisco, California.
- Martin, D.J.**, Finan, K., McMahan, M. 2015. *Geomorphic characterization of an Amazonian headwater stream: Implications for hydropower development in the Andes*. **Annual meeting of the Southeast Division of the Association of American Geographers**, Pensacola, Florida.
- Rudolph, J., Colby, J., **Martin, D.J.**, Tuberty, S. 2015. *Post-restoration streambank stability monitoring using structure from motion*. **Annual meeting of the Southeast Division of the Association of American Geographers**, Pensacola, Florida.
- Martin, D.J.** 2014. *Geospatial characterization of fluvial wood arrangement in a mid-gradient, semi-confined river system*. **Annual meeting of the American Geophysical Union**, San Francisco, California.
- Martin, D.J.**, Harden, C.P., Tran, L. 2013. *Spatial analysis of fluvial wood arrangement in a Midwestern river system: Geomorphic implications and influences*. Poster. **Annual Meeting of the American Geophysical Union**, San Francisco, California.
- Martin, D.J.** 2013. *Longitudinal arrangement of fluvial wood in a low gradient river system*. Ph.D. Honors Paper, **Annual meeting of the Southeastern Division of the Association of American Geographers**, Roanoke, Virginia.
- Martin, D.J.** 2013. *Large woody debris in an Ozarks River: Implications for sediment storage*. **Annual meeting of the Association of American Geographers**, Los Angeles, California.
- Martin, D.J.** 2012. *Large woody debris in an Ozarks River: Implications for contaminated sediment storage*. **Annual meeting of the Southeastern Division of the Association of American Geographers**, Asheville, North Carolina. Poster.
- Owen, M, Pavlowsky, R.T., Lecce, S., and **Martin, D.J.** 2012. *Local-scale variations in floodplain contamination by historical mining in the Old Lead Belt, SE Missouri*. **Annual meeting of the Southeastern Division of the Association of American Geographers**, Asheville, North Carolina. Poster.
- Martin, D.J.** 2012. *Spatial patterns of channel instability along an Ozark River*. **Annual meeting of the Association of American Geographers**, New York, New York.
- Martin, D.J.** 2011. *Hydrology and water quality of regulated diurnal flows of the Nantahala River, NC*. **Annual meeting of the Association of American Geographers**, Seattle, Washington. Poster.
- Lecce, S., Pavlowsky, R.T., and **Martin, D.J.** 2010. *Storage of mining sediment in floodplain deposits of the Big River, Missouri*. **Annual meeting of the Southeastern Division of the Association of American Geographers**, Birmingham, Alabama. Poster.
- Pavlowsky, R.T., **Martin, D.J.**, and Owen, M. 2010. *Channel morphology and sediment characteristics of Ozark Rivers*. **Annual meeting of the Southeastern Division of the Association of American Geographers**, Birmingham, Alabama.
- Owen, M., Pavlowsky, R.T., and **Martin, D.J.** 2010. *Geomorphic evaluation of channel dredging to control contaminated sediment transport in Big River, Old Lead Belt, Eastern Missouri*. **Annual meeting of the Southeastern Division of the Association of American Geographers**, Birmingham, Alabama.
- Martin, D.J.** 2010. *Geospatial technologies: Water resource applications*. **Missouri Environmental Education Association Workshop**, Nixa, Missouri.
- Martin, D.J.**, Pavlowsky, R.T. 2009. *Analysis of stream channel disturbance zones*. **Annual meeting of the Southeastern Division of the Association of American Geographers**, Knoxville, Tennessee.

## CONFERENCE PRESENTATIONS (CONTINUED)

- Pavlowsky, R. T., Lecce, S., Schlomer, G., and **Martin, D.J.** 2009. *Legacy Hg-Cu contamination of active sediments in Gold Hill mining district, North Carolina.* **Annual meeting of the Southeastern Division of the Association of American Geographers**, Knoxville, Tennessee.
- Martin, D.J.** Pavlowsky, R.T. 2009. *Impacts of in-channel dredging for lead-contaminated sediment mitigation, Big River, Old Lead Belt, Missouri.* **Big River Workshop - Missouri Natural Resources Annual Conference**, Osage Beach, Missouri.
- Martin, D.J.** 2009. *Analysis and classification of channel disturbance zones in an Ozark River.* **Annual meeting of the Association of American Geographers**, Las Vegas, Nevada.
- Dryer, P.W., Pavlowsky, R.T., Lecce, S., **Martin, D.J.** 2009. *Mining-related contamination of channel and overbank sediments in the Big River, Old Lead Belt, SE Missouri.* **Annual meeting of the Association of American Geographers**, Las Vegas, Nevada. Poster.
- Martin, D.J.** 2009. *Identification of channel disturbance zones in Ozark Rivers.* **Workshop on Ozark Streams – Missouri Natural Resources Annual Conference**, Osage Beach, Missouri.
- Martin, D.J.** *Classification of channel disturbance zones of the Finley River, Southwest Missouri.* **Annual meeting of the Great Lakes Division of the Association of American Geographers**, Bloomington, Indiana. Poster.
- Martin, D.J.** and Haack, J. 2008. *GIS applications for natural resources: Research and monitoring.* **Southwest Regional GIS User Group Workshop**, Springfield, Missouri.
- Martin, D.J.**, Pavlowsky, R.T. 2008. *Historical patterns of channel stability in an Ozark watershed.* **Annual Binghamton Geomorphology Symposium**, Austin, Texas. Poster.
- Martin, D.J.**, Pavlowsky, R.T. 2008. *Historical and present-day channel stability assessment of Finley Creek, Missouri, using aerial photography.* **Annual meeting of the Association of American Geographers**, Boston, Massachusetts.
- Williams, A., Owen, M., Pavlowsky, R.T., and **Martin, D.J.** 2008. *Human disturbance and geomorphic response of a small Ozarks Plateau catchment.* **Annual meeting of the Association of American Geographers**, Boston, Massachusetts. Poster.
- Martin, D.J.** 2008. *Using historical aerial photography and GIS for stream channel monitoring and assessment: Finley Creek case study.* **Missouri Natural Resources Conference**, Osage Beach, Missouri.
- Martin, D.J.** 2007. *The Ozarks Environmental and Water Resources Institute: Geospatial science mission & GIS project application.* **Southwest Regional GIS Workshop**, Springfield, Missouri.
- Martin, D.J.** 2005. *Geospatial analysis of gravel bar deposition and channel migration within the Ozark National Scenic Riverways, Missouri (1955-2003).* **Annual Graduate Interdisciplinary Research Forum**, Springfield, Missouri.
- Martin, D.J.** 2005. *Geospatial analysis of gravel bar deposition and channel migration within the Ozark National Scenic Riverways, Missouri (1955-2003).* **Annual Meeting of the Association of American Geographers**, Denver, Colorado.
- Martin, D.J.** 2005. *Development of a GIS/RS based method to monitor spatial patterns of gravel bar movement within the Ozark National Scenic Riverways, Missouri (1955-2003).* **Annual Missouri Natural Resources Conference**, Osage Beach, Missouri. Poster.
- Martin, D.J.** and Pavlowsky, R.T. 2004. *Status and comparison of physical habitat assessments in the U.S.A.* **Annual Meeting of the American Society of Agricultural and Biological Engineers**, St. Paul, Minnesota.

## COURSES TAUGHT OR CURRENTLY TEACHING

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GHY 1010	Global Environmental Systems
GHY 1012	Global Change of the Biosphere
GHY 3530	Water Resources in the Tropical Andes (Study Abroad)
GHY 3140	Andean Mountain Geography (Study Abroad)
GHY/PLN 3800	Introduction to Quantitative Methods
GHY 4820/5820	Geographical Hydrology
GHY 5800	Advanced Quantitative Methods

## DEPARTMENTAL SERVICE

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Graduate Program Director	2019 - Present
Graduate Committee	2019 - Present
Departmental Seminar Committee	2018 - Present
Periodic Comprehensive Review Committee	2017 - Present
Map Library Committee	2017 - Present
Honors and Awards Committee	2016 - 2018
Social Committee	2016 – Present
Department Chair Search Committee	2016 - 2017
Comprehensive Exam Committee	2015 - 2017
Departmental Personnel Committee	2015 - Present
Gamma Theta Upsilon Faculty Representative	2015 – 2019
Human Geography Search Committee	2014 - 2015
World Geography Bowl Faculty Adviser	2014 - Present
Appalachian Geographical Society Faculty Adviser	2014 - 2019

## DISCIPLINARY SERVICE

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### **Southeastern Division of the American Association of Geographers**

2018 *Panelist – Teaching as a Graduate Student*

### **Association of American Geographers**

2017 *Panelist – Active Teaching Approaches in Physical Geography Classes*

2016 *Panelist – Including undergraduates in Geographic research*

### **Manuscript Reviews**

*Geomorphology*

*Physical Geography*

*Southeastern Geographer*

*Water*

*Journal of Flood Risk Management*

### **Proposal Reviews**

*National Geographic*

## PROFESSIONAL AFFILIATIONS

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*American Association of Geographers*

*American Geophysical Union*

*Southeastern Division of the American Association of Geographers*



## OUTREACH ACTIVITIES AND REGIONAL COMMUNITY SERVICE

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2019-Present	Associate Scientist for the High Country Office of Mountain True – Watauga River Dam Removal
2019-Present	Associate Scientist for Fundación Cordillera Tropical, Cuenca, Ecuador
2018	Volunteer for Watauga Watershed Field Days (North Carolina)
2017-Present	Citizen Observer, Weather Underground Weather Station Network (North Carolina)
2011	NSF K-12 Watershed Education Volunteer (Tennessee)
2009	Springfield Discovery Center Volunteer – Geocaching and GPS Education (Missouri)

## MEDIA

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2020	ASU College of Arts and Sciences YouTube: <i>Research in the time of COVID19</i>
2017	Appalachian Magazine. <i>Masters Matter: Dr. Derek J. Martin and Christopher Ely</i>
2016	Mountain Research Initiative Blog. <i>Ordinary Processes in an Extraordinary Environment</i>
2015	Mountain Research Initiative Blog. <i>Carbon and Erosion in the Páramo Shangri La.</i>
2010	Ozarks Magazine. <i>An Accurate Map of the Ozarks.</i>
2009	KSMU Public Radio, Springfield, Missouri. <i>Water Quality in Southwest Missouri</i>