

**CURRICULUM VITAE  
PENG GAO**

Department of Geography and the Environment  
Maxwell School of Citizenship and Public Affairs  
144 Eggers Hall  
Syracuse University, Syracuse, New York 13244

Phone: 315-443-2607  
E-mail: pegao@syr.edu  
Office: 144F Eggers Hall

**EDUCATION**

- Ph.D.** 2003 **Physical Geography**, University of Buffalo, State University of New York, USA  
*Dissertation: Mechanics of bedload transport in the saltation and sheetflow regimes.*
- M.S.** 1993 **Physical Geography**, Lanzhou University, P.R. China  
*Thesis: Fractal analysis on small channel networks*
- B.S.** 1990 **Solid Mechanics**, Lanzhou University, P.R. China  
*Thesis: Mechanism of the development of vertical joints in loess areas.*

**PROFESSIONAL EMPLOYMENT**

- Professor,** 2017- present  
Department of Geography and the Environment
- Associate Professor,** 2011 – 2017  
Department of Geography, Syracuse University
- Assistant Professor,** 2005 - 2011  
Department of Geography, Syracuse University
- Postdoctoral Fellow,** 2003 - 2005  
Department of Land, Air, and Water Resources, California University,  
Davis, California
- Assistant Researcher,** 1993 - 1997  
Institute of Mountain Hazards and Environment, Chinese Academy of  
Science, Chengdu, Sichuan, P.R. China

**RESEARCH INTERESTS AND CURRENT RESEARCH FOCUS**

Research interests

- River dynamics and fluvial systems
- Geospatial-based urban studies

Current research focus

- Morphodynamic processes controlling braided rivers in the Qinghai-Tibet Plateau, China
- Mechanisms of short- and long-term evolution of meandering rivers in the Qinghai-Tibet Plateau, China
- Understanding socioeconomic equality in various urban managements (flood damage, snowplow, and green infrastructure)

**PUBLICATIONS**

Refereed Articles

- 2022 **Gao, P\***, Li, Z.W., You, Y.C., Yinjun Zhou, and Hervé Piégay. Assessing functional characteristics of a braided river in the Qinghai-Tibet Plateau, China. *Geomorphology*, 403, 108180
- 2022 You, Y.C., Li, Z.W., **Gao, P\***, and Hu, T.S. Impacts of dams and land-use changes on hydromorphology of braided channels in the Lhasa River of the Qinghai-Tibet Plateau, China. *International Journal of Sediment Research*, 37, 214-228.
- 2022 Li, Z.W., **Gao, P\***, and Wu, X.Y. Processes of neck cutoff and channel adjustment affected by seeding herbaceous vegetation and variable discharges. *Catena*, 208, 1056731.
- 2021 **Gao, P**, Gao, W., and Nan, K. Assessing the impact of flood inundation dynamics on an urban environment. *Natural Hazards*, 109, 1047-1072.
- 2021 **Gao, P**, Li, Z.W., and Yang, H.Y. Variable discharges control composite bank erosion in Zoige meandering rivers. *Catena*, 204, 105384, <https://doi.org/10.1016/j.catena.2021.105384>
- 2021 Guo, X.W., **Gao, P\*** and Li, Z.W., Morphological characteristics and changes of two meandering rivers in the Qinghai-Tibet Plateau, China. *Geomorphology*, 379, 107626. <https://doi.org/10.1016/j.geomorph.2021.107626> (**\*corresponding author**).
- 2020 Zhu, H.L., **Gao, P\***, Li, Z.W., Fu, J.T., Li, G.R., Liu, Y.B., Li, X.L., Hu, X.S., Impacts of the Degraded Alpine Swamp Meadow on Tensile Strength of Riverbank: A Case Study of the Upper Yellow River. *Water*, 12(9), 2348. (**\*corresponding author**).
- 2020 LI, Z. and **Gao, P\***, Characterizing spatially variable water table depths in a disturbed Zoige peatland watershed, *Journal of Hydro-environment Research*, 29, 70-79. (**\*corresponding author**).
- 2020 Li, Z. Lu, H., **Gao, P\***, You, Y., and Hu, X., Characterizing braided rivers in two nested watersheds in the Source Region of the Yangtze River on the Qinghai-Tibet Plateau, *Geomorphology*, 351 (**\*corresponding author**).
- 2019 Li, Z., **Gao, P\***, Hu, X., Yi, Y., Pan, B., and You, Y., Coupled impact of decadal precipitation and evapotranspiration on peatland degradation in the Zoige basin, China, *Physical Geography*, DOI: 10.1080/02723646.2019.1620579 (**\*corresponding author**).
- 2019 Li, Z., **Gao, P\***, and Lu, H., Dynamic changes of groundwater storage and flows in a disturbed alpine peatland under variable climatic conditions, *Journal of Hydrology*, 575, 557-568 (**\*corresponding author**).
- 2019 **Gao, P.**, Cooper, J., and Wainwright, J., Toward understanding complexity of sediment dynamics in geomorphic systems, *Geomorphology*, 330, 129-132.
- 2019 Li, Z. and **Gao, P\***, Impact of natural gullies on groundwater hydrology in the Zoige peatland, China, *Journal of Hydrology: Regional Studies*, 21, 25-39 (**\*corresponding author**).
- 2019 Li, Z., Wu, X., and **Gao, P\***, Experimental study on the process of neck cutoff and channel adjustment in a highly sinuous meander under constant discharges, *Geomorphology*, 327, 215-229 (**\*corresponding author**).
- 2019 Li, Z. and **Gao, P\***, Channel adjustment after artificial neck cutoffs in a meandering river of the Zoige basin within the Qinghai-Tibet Plateau, China, *Catena*, 172, 255-265 (**\*corresponding author**).
- 2018 Li, Z., **Gao, P\***, You, Y., Characterizing hydrological connectivity of artificial ditches in Zoige peatlands of Qinghai-Tibet plateau, *Water*, 10, 1364; <https://doi.org/10.3390/w10101364> (**\*corresponding author**).
- 2018 Wu, X., Li, Z., **Gao, P\***, Cao, H., Hu, T., Response of the downstream Braided Channel to Zhikong Reservoir on Lhasa River, *Water*, 10, 1144; doi:10.3390/w10091144 (**\*corresponding author**).
- 2018 Bao, Y., He, X, Wen, A. **Gao, P\***, P., Tang, Q., Yana, D., Long, Y., Dynamic changes of soil erosion in a typical disturbance zone of China's Three Gorges Reservoir, *Catena*, 169, 128-139 (**\*corresponding author**).

- 2016 **Gao, P.** and Zhang, Z.R., Spatial patterns of sediment dynamics within a medium-sized watershed over an extreme storm event, *Geomorphology*, 267, 25-36.
- 2016 **Gao, P.** and Hartnett, J.J., Exploring the Causes of an Extreme Flood Event in Central New York, USA. *Physical Geography*, 37(1), 38-55.
- 2016 **Gao, P.** and Zhang, L., Determining spurious correlation between two variables with common elements: event area-weighted suspended sediment yield and event mean runoff depth. *The Professional Geographer* 68(2), 261-270 DOI: 10.1080/00330124.2015.1065548.
- 2015 Wainwright, J., Parsons, A.J., Cooper, J.R., **Gao, P.**, Gillies, J.A., Mao, L., Orford, J.D., and Knight, P.G. The concept of transport capacity in Geomorphology. *Reviews of Geophysics* 53, doi:10.1002/2014RG000474.
- 2015 **Gao, P.** Wang, Z-Y, and Siegel, D. Spatial and temporal changes of sedimentation in Three Gorges Reservoir of China. *Lakes and Reservoirs: Research and Management* 20, 1-10.
- 2015 **Gao, P.**, Borah, D., and Yi, C., Storm Event Flow and Sediment Simulations in a Central New York Watershed: Model Testing and Parameter Analyses. *Transactions of American Society of Agricultural and Biological Engineers* 58(5), 1241-1252.
- 2015 Bao, Y.H., **Gao, P.\***, and He, X.B., The water-level fluctuation zone of Three Gorges Reservoir — A unique geomorphological unit. *Earth-Science Reviews*, 150, 14-24. (\* **corresponding author**).
- 2014 Tang, Q., Bao, Y., He, X., Zhou, X., Cao, Z., **Gao, P.**, Zhong, R., Hu, Y., Zhang, X., Sedimentation and associated trace metal enrichment in the riparian zone of the Three Gorges Reservoir, China. *Science of the Total Environment*, 479-480, 258-266.
- 2013 **Gao P.**, Nearing, M., and Commons, M. Suspended sediment transport at the instantaneous and event time scales in semi-arid watersheds of southeastern Arizona, USA. *Water Resources Research*, 49, 1-14, doi: 10.1002/wrcr.20549.
- 2013 **Gao P.**, Borah, D.K., and Josefson, M. Evaluation of the storm event model DWSM on a medium-sized watershed in central New York, USA. *Journal of Urban and Environmental Engineering*, 7: 1-7.
- 2013 **Gao P.** Rill and Gully Development Processes. In: John F. Shroder (ed.) *Treatise on Geomorphology*, Volume 7, pp. 122-131. San Diego: Academic Press.
- 2012 **Gao, P.** Validation and implications of an energy-based bedload transport equation. *Sedimentology*, 59, 1926-1935.
- 2012 **Gao, P.** and Chen, C. Investigating the Periodicities of Step-Pool Sequences in Alluvial Mountain Streams. *Geographic Analysis*, 44, 258-277.
- 2012 **Gao, P.** and Josefson, M. Temporal variations of suspended sediment transport in Oneida Creek watershed, Central New York. *Journal of Hydrology*, 426-427, 17-27.
- 2012 **Gao, P.**, Puckett, J. A new approach for linking event-based upland sediment sources to downstream suspended sediment transport. *Earth Surface Processes and Landforms*, 37, 169-179 DOI: 10.1002/esp.2229.
- 2012 **Gao, P.** and Josefson, M. Event-based suspended sediment dynamics in a central New York watershed. *Geomorphology*, 139-140, 425-437 doi:10.1016/j.geomorph.2011.11.007.
- 2011 **Gao, P.** An equation for bed-load transport capacities in gravel-bed rivers. *Journal of Hydrology*, 402, 297-305.
- 2010 **Gao, P.** Surface water pollution. Encyclopedia of Geography, SAGE Reference publication.
- 2010 **Gao, P.** Closure to “Transition between two bed-load transport regimes: saltation and sheet flow” by Peng Gao. *Journal of Hydraulic Engineering*, 136, 76-77.
- 2008 **Gao, P.** Understanding watershed suspended sediment transport. *Progress in Physical Geography*, 32, 243-263.
- 2008 **Gao, P.**, Pasternack, G. B., Bali, K. M., Wallender, W. W. Estimating suspended sediment concentration using turbidity in an irrigation-dominated southeastern California watershed, *Journal of Irrigation & Drainage Engineering* 134, 250-259.

- 2008 **Gao, P.** The transition between two bedload transport regimes: Saltation and Sheetflow. *Journal of Hydraulic Engineering* 134, 340-349.
- 2007 **Gao, P.** and Pasternack, G. B., Dynamics of suspended sediment transport at field-scale drain channels of irrigation-dominated watersheds in the Sonoran Desert, southeastern California. *Hydrological Processes* 21, 2081-2092.
- 2007 **Gao, P.**, Pasternack, G. B., Bali, K. M., Wallender, W. W., Suspended sediment transport in an intensively cultivated watershed in southeastern California. *Catena* 69, 239-252.
- 2006 Bali, K., **Gao, P.**, Pasternack, G. B., and Wallender, W. Calibration and use of in situ turbidity sensors for estimating sediment load in drainage waters. In (Burt, C.M. and Anderson, S.S., Eds.) *SCADA and Related Technologies for irrigation District Modernization*. US Committee on Irrigation and Drainage, Vancouver, Washington, p. 257-270.
- 2006 Abrahams, A.D. and **Gao, P.**, Bedload transport model for rough turbulent open-channel flows over plane beds, *Earth Surface Process and Landform* 31, 910-928.
- 2005 **Gao, P.**, Pasternack, G. B., Bali, K., and Wallender, W. Impact of agricultural practices on soil erosion at the field-scale in the Salton Sea watershed. In (M. Svendsen, D. Wichelns, S. S. Anderson, Eds) *Water District Management and Governance- Third International Conference on Irrigation and Drainage*. US Committee on Irrigation and Drainage, Denver, p. 571-580.
- 2004 **Gao, P.** and Abrahams, A.D., Bedload transport resistance in rough open-channel flows, *Earth Surface Process and Landform*, 29, 423-435.
- 2000 Abrahams, A.D., **Gao, P.** and Aebly, F.A., Relation of sediment transport capacity to stone cover and size in rain-impacted interrill overland flow, *Earth Surface Processes and Landforms*, 25, 497-504.
- 1996 **Gao, P.**, Nonlinear dynamic features and methods in landslides, *Journal of Basic Science and Engineering*, 4(3), 280-287 (in Chinese).
- 1996 **Gao, P.**, Multiple time series analysis of ground water dynamics in landslide body. In: *Landslides: Research and control*, Sichuan Science and Technology Press, Chengdu, China, 130-136 (In Chinese).
- 1996 **Gao, P.**, Predicting models and analysis of ground water dynamics in landslide body. In: *Landslides: Research and control*, Sichuan Science and Technology Press, Chengdu, China, 166-176 (In Chinese).
- 1995 **Gao, P.**, Nonlinear mechanism and methods in landslide process, *Proceedings of the Second Academic Conference of Chinese Young Scientists*, 404-419 (in Chinese).
- 1995 **Gao, P.**, The approach and application of multifractal to drainage basins, *The Chinese Journal of Geological Hazards and Controls*, 6(2), 31-39 (in Chinese).
- 1994 **Gao, P.** Exploring nonlinear approaches on landslide study, *Geography*, 7(4), 46-52 (in Chinese).
- 1994 **Gao, P.**, Fractional Brownian motion and landslide study, *Geography*, 7(4), 56-61 (in Chinese).
- 1994 **Gao, P.** and Ai, N., Catastrophe model for the damage of soil landslides, *Journal of Engineering Geology*, 2(4), 67-76 (in Chinese).
- 1993 **Gao, P.**, Ai, N., and Li, H., The fractal study of drainage geomorphology, *Advance in Earth Sciences*, 8(5), 63-68 (in Chinese).

### **Non-refereed Contribution**

**Gao, P.** and Pasternack, G. B. 2004. Imperial Valley drains silt TMDL modeling studies. Colorado River Basin Regional Water Quality Control Board Final Report. 38pp

## **CONFERENCE PRESENTATIONS AND INVITED TALKS**

- 2022 ‘Response of a braided river in the Qinghai-Tibet Plateau to anthropogenic impacts’ *I.S.River, the 4<sup>th</sup> International Conference, July 4-8, Lyon, France*
- 2022 ‘Braided rivers in the Qinghai-Tibet Plateau: distribution and functioning characteristics’ June 14, *University of Lyon, EUR H<sub>2</sub>O’Lyon, Site of ENS, 15 Parvis R. Descartes, F-69362, Lyon, France*
- 2022 ‘Cutoff – an essential process controlling meandering river evolution’, June 5, *Laboratory of the ecology of natural and anthropised hydrosystems (LEHNA), CNRS, Lyon, France*
- 2022 ‘Upscaling medium-resolution Landsat images using deep learning super resolution’, May 18, *University of Lyon, UMR 5600 CNRS – EVS, Site of ENS, 15 Parvis R. Descartes, F-69362 Lyon, France*
- 2021 ‘Processes of neck cutoff and channel adjustment affected by seeding herbaceous vegetation and variable discharges’ *American Geophysical Union, December* (online) (with Zhiwei Li and Xinyu Wu)
- 2021 ‘How long it takes for neck cutoff to occur in highly sinuous meandering rivers?’ *American Geophysical Union, December* (online) (with Zhiwei Li and Yuchi You)
- 2020 ‘Functional characteristics of a braided river in the Qinghai-Tibet Plateau, China’ *American Geophysical Union, December* (online).
- 2019 River clusters on the Qinghai-Tibet Plateau, China: Definition, distribution, and characteristics, *American Geophysical Union, December 9-13, 2019, San Francisco, USA* (with Zhwei Li).
- 2019 Morphodynamic analysis of meander migration in the source region of Yellow River, China *American Geophysical Union, December 9-13, 2019, San Francisco, USA* (with Zhwei Li and Tao Tang).
- 2019 Morphodynamic characteristics of the braided Upper Lancang River, China *American Geophysical Union, December 9-13, 2019, San Francisco, USA* (with Hanyou Lu and Zhwei Li).
- 2019 Improved UAV Data Processing for Generating Correct High-Resolution Digital Elevation/Terrain Models, *The 50<sup>th</sup> Binghamton Geomorphology Symposium, October 11-13, Denver, Colorado, USA.*
- 2019 Braided rivers on the Qinghai-Tibet Plateau, China, *September 26-28, Western Ontario University* (invited).
- 2019 The Zoige peatlands on the Qinghai-Tibet Plateau and their current status, *June 27, Foshan University, China* (invited).
- 2019 Does the so-called bedload transport capacity exist in natural rivers? *May 7, Wuban University* (invited).
- 2019 “Impacts of riparian vegetation on neck cutoff in an experimental meandering channel” *European Geophysical Union, April 7-13, 2019, Vienna, Austria* (with Zhwei Li and Xinyu Wu).
- 2019 “Morphodynamic characteristics of the braided Upper Lancang River, China” *European Geophysical Union, April 7-13, 2019, Vienna, Austria* (with Zhwei Li and Yuchi You).
- 2018 “Fluvial processes controlling bank erosion of meanders in Zoige basin, China” *American Geophysical Union, December 10-14, 2018, Washington DC, USA* (with Zhwei Li and Hanyuan Yang).
- 2018 “Experimental study on the process of neck cutoff and channel adjustment in a highly sinuous meander under constant discharges” *American Geophysical Union, December 10-14, 2018, Washington DC, USA* (with Zhwei Li and Xinyu Wu).
- 2017 “Morphological changes of a braided river reach in the source of the Yangtze River over thirty years” *American Geophysical Union, December 10-14, 2017, New Orleans, USA*
- 2017 “Quantifying climatic impacts on peatland in the Zoige basin, China” *American Geophysical Union, December 10-14, 2017, New Orleans, USA.*
- 2017 “Mechanics of peatland reduction in the Zoige region within the Qinghai-Tibet Plateau, China” *Association of American Geography, April 5-9, Boston, USA.*

- 2017 “Fluvial responses of two meandering bends to an artificial neck cutoff in a tributary of the Upper Yellow River of China” *Association of American Geography, April 5-9, Boston, USA* (presented by Zhiwei Li).
- 2016 “Sedimentation in China’s Three Gorges Reservoir: a tamed river dragon” *Association of American Geography, March 27-April 2, San Francisco, USA.*
- 2015 “Spatial patterns of sediment dynamics within a medium-sized watershed over an extreme storm event” *American Geophysical Union Annual Meeting: December 14- 20, San Francisco, USA.*
- 2015 “GIS and green building/environment design” The 3<sup>rd</sup> Green Building and Urban Environment Forum, October 20, Syracuse University, USA (*invited*).
- 2015 “Geostatistic characteristics of three vegetation representations and their impact on watershed modeling” *The 23rd International Conference on Geoinformatics: June 19-21, Wuban, China.*
- 2015 “GIS application for urban planning and architecture design” *Shenzhen Institute of Building Research, Co Ltd. China: June 4 (invited).*
- 2015 “Dynamics of sediment transport at the watershed scale: how much do we know?” *School of Energy and Hydraulic Engineering, Changsha University of Science and Technology: May 18, Changsha, Hubei, China (invited).*
- 2014 “Parameterizing a physically-based erosion model at the watershed scale” *Association of American Geographers Annual Meeting, April 8-12, Tampa, FL.*
- 2013 “A general feature of suspended sediment transport at the event temporal scale” *The 8th IAG International Conference on Geomorphology: August 27 – 31, Paris, France.*
- 2013 “Modeling event-based sediment transport at the watershed scale” Chengdu Institute of Mountain Hazard and Environment, June 2, Chinese Academy of Science, Chengdu, China (*invited*).
- 2013 “Bedload transport capacity in sand- and gravel-bed rivers” Department of Civil Engineering and Engineering Mechanics, University of Arizona, January 25, Tucson, Arizona (*invited*)
- 2013 “Identifying general patterns of suspended sediment transport in different climatic zones” US Department of Agriculture, ARS, January 23, Tucson, Arizona (*invited*).
- 2012 “The relationship between specific event sediment yields and runoff depth and its significance” *American Geophysical Union Annual Meeting: December 3- 7, San Francisco, USA* (poster with Mark Nearing, Murray Hicks, and Michael Commons).
- 2012 “Evaluation of the Storm Event Model "DWSM" on a watershed in central New York, USA” *The International Conference Sediment Transport Modeling in Hydrological Watersheds and Rivers, November 14-16, 2012, Istanbul, Turkey* (with Deva Borah and Maria Joesfson).
- 2011 “Temporal variations of suspended sediment transport in Oneida Creek watershed, Central New York” *American Geophysical Union Annual Meeting: December 5- 9, San Francisco, USA* (poster with Maria Josefson).
- 2011 “Event-based suspended sediment dynamics in a central New York watershed” *The Geological Society of America Annual Meeting: October 9-12, Minneapolis, Minnesota, USA* (poster with Mario Josefson).
- 2011 “Uniformitarianism vs. Catastrophism– A Path Illuminating the Development of Geomorphology” Department of Geography, Syracuse University October 10 (Colloquium).
- 2011 “Philosophy of Geomorphology” Department of Geography, Lanzhou University, August 5 (*invited*)
- 2011 “Temporal variations of suspended sediment load in Oneida Creek Upstream watershed, Central New York” *Association of American Geographers Annual Meeting, Seattle, WA, April 12 – 16.*
- 2010 “Can the complex fluvial system be characterized simply?” Department of Geography, State University of New York, University of Buffalo, October 8 (*invited*)
- 2010 “Dynamic link between sediment sources and downstream load of a watershed” *Association of American Geographers Annual Meeting, Washington DC, April 14-18.*

- 2009 “Investigating the periodicity of step-pool sequences in alluvial mountain streams” *American Geographical Union Fall meeting, San Francisco, December 14-18*, (Poster with Chung Chen).
- 2009 “Watershed sediment modeling – from simplicity to complexity” (invited talk) in *College of Hydrodynamics and Hydraulic Engineering, Sichuan University, Chengdu, China*.
- 2009 “A new index system for modeling suspended sediment in Oneida Creek Watershed, Central New York” *Association of American Geographers Annual Meeting, Las Vegas, NV, March 23-27* (with Jay Puckett).
- 2008 “Bedload transport capacity.” in *British Society for Geomorphology Annual Meeting, University of Exeter, Exeter, UK, July 2008*.
- 2007 “Watershed suspended sediment monitoring and modeling – Retrospect and Prospect.” (invited talk) in *Institute of Mountain Hazards and Environment, Chinese Academy of Science, Chengdu, Sichuan, China, July 7*.
- 2007 “Modeling step-pool sequences in mountain watersheds.” *Association of American Geographers Annual Meeting, San Francisco, CA, April 17-21*. (with and presented by Anne Chin)
- 2006 “Is the classic bed load prediction puzzle solved.” (Invited talk) *The Department of Earth Sciences K. Douglas Nelson Colloquium Series, Syracuse University*.
- 2006 “Suspended sediment transport in an intensively cultivated watershed in southeastern California.” *Association of American Geographers Annual Meeting, Chicago, IL, Mar. 7–16*.
- 2004 “Suspended sediment dynamics at the Field-scale Channel of an Irrigation-dominated Watershed.” *American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 13-17* (poster with Pasternack, G.B.).
- 2003 “Modeling the Erosion Process in Beaded Streams in a Semi-arid Bajada, Southern New Mexico.” *American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 8-15* (poster).
- 2003 “Mechanics of bedload transport and its applications.” *Association of American Geographers Annual Meeting, New Orleans, LA, Mar. 18 – 24*. (with Abrahams, A.D.).
- 2002 “Mechanics of bedload transport in open-channel flow.” *US - China Joint Workshop on Sediment Transportation and Environmental Studies, Milwaukee, WI, July 21 - 28*.
- 2002 “Mechanics of bedload transport in open-channel flow.” *Association of American Geographers Annual Meeting, Los Angeles, CA, Mar.19 -23* (with Abrahams, A.D.)
- 2001 Mechanics of bedload transport in open-channel flow, *American Geophysical Union Fall Meeting, San Francisco, CA, Dec. 10-14* (poster, with Abrahams, A.D.).
- 2001 “Bedload and total load sediment transport equations for rough, open-channel flow.” *American Geographical Union Fall Meeting, San Francisco, CA, Dec. 10-14* (poster, with Abrahams, A.D.).
- 2001 “Dynamic friction coefficient in open-channel flow.” *Association of American Geographers Annual Meeting, New York, NY, Feb. 27 - Mar. 3* (with Abrahams, A.D.).
- 2000 “Predicting bedload transport resistance in open-channel flow.” *Association of American Geographers Annual Meeting, Pittsburgh, PA, Apr. 4-8* (with Abrahams, A.D.).
- 2000 “Predicting bedload transport resistance in open-channel flows.” *American Geophysical Union Spring Meeting, Washington, D.C., May 30 - June 3* (poster with Abrahams, A.D.).

## PROFESSIONAL SERVICE

- 2018- present Editorial Board member of *Geomorphology*.
- 2021 Panel member for reviewing USDA NP 211 Panel 8 Sedimentation.
- 2018 Organizing (with James Cooper and John Wainwright) the 49<sup>th</sup> Binghamton Geomorphology Symposium (October 5-7) <http://community.dur.ac.uk/john.wainwright/Binghamton/>.
- 2018 Guest editor of the special issue: Sediment complexity in *Geomorphology*.
- 2013-2018 Chair of the award committee, Secretary, and Chair of Geomorphology Specialty Group of American Association of Geography.