

BRANDON L. EDWARDS

Curriculum vitae

November 2018

EDUCATION

2013 PhD, Geography, Louisiana State University
2006 MS, Geography, Louisiana State University
2002 BS, Geography, Louisiana State University

PROFFESIONAL APPOINTMENTS

2017-present USDA ARS, Jornada Experimental Range, Research Assistant Professor

2015-2017 US Army Corps of Engineers, Engineer Research and Development Center,
Environmental Lab, Coastal Geomorphologist (Under contract through Louisiana
State University Agricultural Center)

2014-2017 Louisiana State University Agricultural Center, School of Renewable Natural
Resources, Post-doctoral Research Associate

2011-2014 Louisiana State University Agricultural Center, School of Renewable Natural
Resources, Research Associate

FULL PAPERS IN REFEREED JOURNALS

Accepted **Edwards, B.L.**, N.P. Webb, D.P. Brown, E. Elias, D.E. Peck, F.B. Pierson, C.J.
Williams, and J.E. Herrick. Climate change impacts on wind and water erosion
on US rangelands: a review. *Journal of Soil and Water Conservation*. (*Invited*)

2017 Allen, S.T., M.L. Reba, **B.L. Edwards**, and R.F. Keim. Evaporation and the sub-
canopy energy environment in a flooded forest. *Hydrological Processes* 31:
2860-2871.

2016 Lemon, M.G.T., S.T. Allen, **B.L. Edwards**, S.L. King, and R.F. King. Satellite Derived
Temperature for Monitoring Water Status in a Floodplain Forest of the Upper
Sabine River, Texas. *Southeastern Naturalist* 15: 90-102

2016 **Edwards, B.L.**, R.F. Keim, E.J. Johnson, C.R. Hupp, S. Marre, and S.L. King.
Geomorphic adjustment to hydrologic modifications along a
meandering river: implications for surface flooding on a floodplain.
Geomorphology 269: 149-159.

2016 Allen, S.T., **B.L. Edwards**, M.L. Reba, and R.F. Keim. Sub-canopy
evapotranspiration from floating vegetation and open water in a swamp forest.
Wetlands 36: 681-688.

- 2015 **Edwards, B.L.**, and S.L. Namikas. Characterizing the sediment bed in terms of resistance to motion: toward an improved model of saltation thresholds for aeolian transport. *Aeolian Research* 19: 123-128. (*Invited*)
- 2015 Kaller, M.D., R.F. Keim, **B.L. Edwards**, A.R. Harlan, T. Pascoe, W.E. Kelso, and D.A. Rutherford. Aquatic vegetation mediates the relationship between hydrologic connectivity and water quality in a managed floodplain, Atchafalaya River, Louisiana, USA. *Hydrobiologia* 760: 29-41.
- 2014 Jones, C.N., D.T. Scott, **B.L. Edwards**, and R.F. Keim. Perirheic mixing and biogeochemical processing in flow-through and backwater floodplain wetlands. *Water Resources Research* 50: 7394-7405.
- 2014 Scott, D.T., R.F. Keim, **B.L. Edwards**, C.N. Jones, and D.E. Kroes. Floodplain biogeochemical processing of floodwaters in the Atchafalaya River Basin during the Mississippi River flood of 2011. *Journal of Geophysical Research: Biogeosciences* 119: 537-546.
- 2013 Keim, R.F., J.A. Zoller, D.H. Braud, and **B.L. Edwards**. Classification of forested wetlands using ordination of multitemporal reflectance. *Wetlands* 33: 1103-1115.
- 2013 **Edwards, B.L.**, S.L. Namikas, and E.J. D'Sa. A Simple infrared technique for measuring beach surface moisture. *Earth Surface Processes and Landforms* 38: 192-197.
- 2013 **Edwards, B.L.**, S.L. Namikas, and P.P. Schmutz. Comparison of surface moisture measurements to depth-integrated moisture measurements on a fine-grained beach. *Journal of Coastal Research* 29: 1284-1291.
- 2011 **Edwards, B.L.** and S.L. Namikas. Changes in shoreline change trends in response to a detached breakwater field at Grand Isle, Louisiana. *Journal of Coastal Research* 27: 698-705.
- 2010 Namikas, S.L., **B.L. Edwards**, M.C. Bitton, J. Booth, and Y. Zhu. Temporal and spatial variability in the surface moisture content of a fine-grained beach. *Geomorphology* 114: 303-310.
- 2009 **Edwards, B.L.**, and S.L. Namikas. Small-scale variability in surface moisture on a fine-grained beach: implications for modeling aeolian transport. *Earth Surface Processes and Landforms* 34: 1333-1338.
- 2009 Namikas, S.L., B.O. Bauer, **B.L. Edwards**, P.A. Hesp, and Y. Zhu. Measurements of Aeolian Mass Flux Distributions on a Fine-Grained Beach: Implications for Grain-Bed Collision Mechanics. *Journal of Coastal Research Sp. Iss.* 56: 337-341.

- 2007 Namikas, S.L., **B.L. Edwards**, M. Bitton, W. McKenna, J. Booth, C. J. Pennington, and Y. Zhu. Discussion of: Delgado, I., and Lloyd, G., 2004. A simple low cost method for one-person beach profiling. *Journal of Coastal Research*, 20(4), 1246-1252. *Journal of Coastal Research* 23: 1337-1340.

OTHER PUBLICATIONS

- 2016 King, S.L., R.F. Keim, C.R. Hupp, **B.L. Edwards**, W.A. Kroschel, E.L. Johnson, and J.W. Cochran. *Altered Hydrologic and Geomorphic Processes and Bottomland Hardwood Plant Communities of the Lower White River Basin*. US Geological Survey Open-File Report 2016–1113. 34 p.
- 2016 Konsoer, K.M., D. Richards, and **B.L. Edwards**. Planform evolution of neck cutoffs on elongate meander loops, White River, Arkansas, USA. In: Constantinescu, G., M. Garcia, and D. Hanes (Eds.), *River Flow 2016*. Taylor and Francis Group, London, pp. 1730-1735.
- 2014 Allen, S.T., **B.L. Edwards**, R.F. Keim, and M.L. Reba. Measurement of sub-canopy evaporation in a flooded forest. *Evapotranspiration: Challenges in Measurement and Modeling from Leaf to the Landscape Scale and Beyond Conference Proceedings*. ASABE, St. Joseph, MI. 9 p.

GRANTS AND AWARDS

- 2014-2015 *A comprehensive assessment of deltaic baldcypress-water tupelo forested wetland condition in Louisiana's coastal zone*. Coastal Protection and Restoration Authority (Co-PI), \$24,019
- 2014-2015 *Adaptive Management of Catahoula Lake for Sediment Mobility and Control of Woody Encroachment*. Louisiana Water Resources Research Institute (Co-PI), \$15,000
- 2009-2011 *Field Investigation of the Influence of Surface Moisture on the Initiation of Motion on Wind-blown Sand on Beaches*. National Science Foundation Doctoral Dissertation Research Improvement Grant (Co-PI), \$11,578

RESEARCH INTERESTS

Coastal geomorphology
 Aeolian processes
 Floodplain geomorphology and hydrology
 Remote sensing of coastal and wetland environments
 Anthropogenic modifications and management

PROFESSIONAL AFFILIATIONS

American Geophysical Union
 Association of American Geographers
 Coastal Research and Education Foundation
 Sigma Xi