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EDUCATION

- Ph.D. **Louisiana State University**, Baton Rouge, LA
Department of Oceanography and Coastal Sciences, 2016
Advisor: R. Eugene Turner
Dissertation Title: Coastal ecosystem resiliency and adaptability after major disturbances.
- B.S. **Dickinson College**, Carlisle, PA
Environmental Science, Magna Cum Laude, 2005

PROFESSIONAL APPOINTMENTS

- 2018-present Postdoctoral Research Fellow at University of Central Florida
Department of Biology
PI: Linda Walters
- 2018-present Senior Science Fellow at Coalition to Restore Coastal Louisiana
- 2016- 2018 Science Director at Coalition to Restore Coastal Louisiana

PUBLICATIONS

- Submitted Morris, R., D. Bilkovic, M. Boswell, D. Bushek, J. Cebrian, J. Goff, K. Kibler, M. La Peyre, **G. McClenachan**, J. Moody, P. Sacks, J Shinn, E. Sparks, N. Temple, L. Walters, B. Webb, and S. Swearer. 2018. The application of oyster reefs in shoreline protection: are we over-engineering for an ecosystem engineer? *Global Change Biology*.
- Submitted Turner, R.E., **G. McClenachan**, M. Layne, Y. Mo, and E.M. Swenson. 2018. Mississippi River Diversions: A Land Loss Accelerant or Engine of Land Gain? *Science Advances*.
- Accepted Turner, R.E. and **G. McClenachan**. 2018. Reversing wetland death from 76,000 cuts: Opportunities to restore Louisiana's dredged canals. *Plos One*.

- 2016 Turner, R.E., **G. McClenachan**, and A.W. Tweel. 2016. Islands in the oil: Quantifying salt marsh shoreline erosion after the Deepwater Horizon oiling. *Marine Pollution Bulletin*. 10(1): 316-232.
- 2016 **McClenachan, G.** 2016. Coastal ecosystem resiliency after major disturbances. *LSU Doctoral Dissertations*. 3161. https://digitalcommons.lsu.edu/gradschool_dissertations/3161.
- 2014 Hooper-Bui, L.M., N.N. Rabalais, A.S. Engel, R.E. Turner, **G. McClenachan**, B. Roberts, E.B. Overton, D. Justic, K. Sturdivant, K. Brown, and J. Conover. 2014. Key insights into the coastal effects of the Macondo Blowout from the Coastal Waters Consortium: A GoMRI Consortium. International Oil Spill Conference, Savannah, Georgia, 5-8 May, 2014 (1): 604-617.
- 2014 Turner, R.E., E.B. Overton, B.M. Ashton, M.S. Miles, **G. McClenachan**, L. Hooper-Bui, A. Summer Engel, E.M. Swenson, J.M. Lee, C.S. Milan, and H. Gao. 2014. Distribution and recovery trajectory of Macondo (Mississippi Canyon 252) oil in Louisiana salt marshes. *Marine Pollution Bulletin*, 87(1-2): 57-67.
- 2013 **McClenachan, G.**, R.E. Turner, and A.W. Tweel. 2013. Effects of oil on the rate and trajectory of Louisiana marsh shoreline erosion. *Environmental Research Letters*. 8(4): 044030.
- 2012 Kapur, A., C. Baldwin, M. Swanson, N. Wilberforce, **G. McClenachan**, and M. Rentschler. 2012. Comparative life cycle assessment of conventional and Green Seal-compliant industrial and institutional cleaning products. *The International Journal of Life Cycle Assessment*. 17(4): 377-387.
- In prep **McClenachan, G.**, and R.E. Turner. 2018. Documenting shoreline erosion: the temporal and spatial scale of disturbance driven wetland loss. *Ecological Applications*. Submission Fall 2018. *Manuscript available.
- In prep Lewis, K.A., K. De Mutsert, G. McClenachan, and J.H. Cowan, Jr. Living on the edge: Investigating the importance of marsh and marsh edge to fisheries production. *Fisheries*. Submission Spring 2019. *Manuscript available.

GRANTS AND FELLOWSHIPS

- 2018 Kibler, K., L. Walters, M. Donnelly, V. Kitsikoudis, **G. McClenachan**, A. Roddenberry. Developing a Shoreline Restoration Suitability Model for North IRL and Mosquito Lagoon, Phase II. Indian River Lagoon National Estuary Program. **\$117,546**.

- 2017 **McClenachan, G.** Fishing for Data: Collecting baseline data on fish populations and environmental conditions in southeastern Louisiana using fishermen citizen scientists. Restore the Mississippi River Delta. **\$99,440.**
- 2017 **McClenachan, G.** Oyster reef ecosystem benefits monitored via time-lapse photography. Restore the Mississippi River Delta. **\$11,157.**
- 2010-2014 Board of Regents Graduate Fellowship, Louisiana Board of Regents.

TEACHING EXPERIENCE

University of Central Florida: Department of Biology
Resilience and Disturbance Ecology (Spring 2019)

Guest Lecturer
GIS for Biologists (Fall 2018)

Nichols State University: Department of Biology
Guest Lecturer
Marine and Environmental Biology (Fall 2018)

Louisiana State University: Department of Oceanography and Coastal Sciences
Introduction to Oceanography (TA, Fall 2015)
Wetland field workshop (Summer 2013)

Guest Lecturer
Wetland loss, Restoration, and Management (Fall 2017)

CONFERENCE PRESENTATIONS

Papers Presented

- 2018 State of the Coast. “Why isn’t everyone backfilling? History of rationales for the lack of backfilling.” New Orleans, LA. May 30- June 1.
- 2017 Coastal and Estuarine Research Federation Conference. “Salt marsh resiliency shifts after the Deepwater Horizon oil spill.” Providence, RI. Nov 5-9.
- 2017 Gulf of Mexico Oil Spill and Ecosystem Science Conference.
“Salt marsh resiliency shifts after the Deepwater Horizon oil spill.” New Orleans, LA. Feb 6-9.

- 2016 Restore America's Estuaries Conference.
 "Documenting marsh shoreline erosion over days, months and a year: The legacy effects of disturbances." New Orleans, LA. Dec 12-15.
- 2016 Gulf of Mexico Oil Spill and Ecosystem Science Conference.
 "Louisiana commercial fishing industry response to the Deepwater Horizon oil spill." Tampa, FL. Feb 1-4.
- 2015 Coastal and Estuarine Research Federation Conference.
 "Coastal erosion and disturbances: Documenting the impact of micro-bay formation." Portland, OR, November 7-12.
- 2015 Gulf of Mexico Oil Spill and Ecosystem Science Conference.
 "Rate and trajectory of erosion along the Louisiana coast after the Deepwater Horizon oil spill." Houston, TX, February 16-19
- 2015 Student Conference on Conservation Science.
 "Effects of oil on the rate and trajectory of Louisiana marsh shoreline erosion." Brisbane, Australia, January 19-29.
- 2013 Coastal and Estuarine Research Federation Conference.
 "Louisiana commercial fishing industry response to the Deepwater Horizon oil spill." San Diego, CA. November 3-7.
- 2013 Association for the Sciences of Limnology and Oceanography (ASLO).
 "Effects of oil on the rate and trajectory of Louisiana marsh shoreline erosion." New Orleans, LA. February 17-22.
- 2013 Gulf of Mexico Oil Spill and Ecosystem Science Conference.
 "Effects of oil on the rate and trajectory of Louisiana marsh shoreline erosion." New Orleans, LA. January 21-23.
- 2012 International Wetlands Conference (INTECOL).
 "Effects of oil on the rate and trajectory of Louisiana marsh shoreline erosion." Orlando, FL. June 3-8.
- 2011 Coastal and Estuarine Research Federation Conference.
 "Effects of oil on the rate and trajectory of Louisiana marsh shoreline erosion." Daytona Beach, FL. November 6-11.

Posters

- 2014 Association for the Sciences of Limnology and Oceanography (ASLO).
 "Effects of oil on the rate and trajectory of Louisiana marsh shoreline erosion." Honolulu, HI, February 23rd-28th.

2014 Gulf of Mexico Oil Spill and Ecosystem Science Conference.
“Louisiana commercial fishing industry response to the Deepwater Horizon oil spill.” Mobile, AL. January 26th-29th, 2014.

INVITED TALKS

2018 University of Central Florida, Orlando FL
2017 New College of Florida, Sarasota FL
2017 Louisiana State University, Baton Rouge LA

PROFESSIONAL SERVICE

Journal Reviewer: *Aquatic Invasions, Marine Pollution Bulletin, Marine Ecology Progress Series, Southeastern Naturalist*

Conference session organizer: State of the Coast. New Orleans, LA. “Backfilling canals: Progress and Pratfalls.”

Grant reviewer: National Fellowship of GWIS

SCIENCE OUTREACH AND MENTORING

2018 **Undergraduate mentor and advisor.** University of Central Florida
Mentored 3 undergraduates in independent research.

2017 **AmeriCorps supervisor.** Coalition to Restore Coastal Louisiana
Mentored and supervised a graduate student in GIS research.

2017 **Undergraduate research mentor.** Tulane University
Worked with 2 students using GIS to explore restoration effects.

2013-2015 **Ocean Commotion.** Louisiana State University
Developed and presented science education for elementary and middle schoolers

2011-2015 **Environmentors.** Louisiana State University
Yearlong science mentoring for underprivileged high school students.

AWARDS

- 2016 Outstanding Dissertation Award, Dept. of Oceanography and Coastal Sciences, LSU.
- 2015 Ted Ford Scholarship Award, Dept. of Oceanography and Coastal Sciences, LSU.
- 2014 Gulf of Mexico Research Initiative Scholar, Coastal Waters Consortium.
- 2014 1st place, 2014 Graduate Student Seminar Competition, Dept. of Oceanography and Coastal Sciences, LSU.
- 2005 1st place, Senior Research Symposium, Dickinson College.

RESEARCH EXPERIENCE

- 2018-present University of Central Florida, Orlando, FL. Landscape scale historical ecosystem changes in the Indian River Lagoon system.
- 2016-2018 Coalition to Restore Coastal Louisiana, New Orleans, LA
Interdisciplinary research on effects of climate change, restoration activities, land loss, and other disturbances on fish and fishermen communities.
- 2010-2016 Louisiana State University, Baton Rouge, LA.
Field and statistical research on the effect of natural and anthropogenic disturbances on marsh shoreline erosion and commercial fisheries.

RELEVANT WORK EXPERIENCE

- 2007-2010 Environmental Scientist, Green Seal, Washington, DC.
- 2006-2007 Associate Research Support Specialist, Institute of Ecosystem Studies, Baltimore, MD.
- 2005-2006 Assistant Research Specialist, Institute of Ecosystem Studies, Baltimore, MD.

REFERENCES

R. Eugene Turner

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