Anthony J. Rietl

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Employment

2016 to Present – Louisiana Universities Marine Consortium (LUMCON)
Postdoctoral Researcher in the lab of Dr. Brian Roberts

Education

2011 to 2016 – Louisiana State University – *Ph.D. Renewable Natural Resources*
Specialization – *Wetland Ecology, Biogeochemistry, Microbial Ecology*
Dissertation Topic – **Vegetation influences microbial community structure and methane emissions in southeastern Louisiana wetlands**
Graduate Advisor: Dr. John A. Nyman

2010 – The University of Mississippi – *M.S. Biology*
Thesis: **The effects of ecological restoration on soil microbial enzyme activities and leaf litter decomposition**
Graduate Advisor: Dr. Colin R. Jackson

2008 – The University of Louisville – *B.S. Biology with a concentration in Ecology*
Undergraduate Research Thesis: **Carbon storage and sequestration potential of woodlands adjacent to interstates in Louisville, KY**
Undergraduate Advisor: Dr. Margaret M. Carreiro

Publications

Rietl, AJ, Nyman, JA, Lindau, CW, & Jackson, CR (2017). Wetland methane emissions altered by vegetation: an interaction between stem clipping and nutrient enrichment. Aquatic Botany 136, 205-211

Rietl, AJ, Nyman, JA, Lindau, CW, & Jackson, CR (2016). Gulf ribbed mussels (*Geukensia granosissima*) increase methane emissions from a coastal *Spartina alterniflora* marsh. Estuaries and Coasts DOI: 10.1007/s12237-016-0181-2

Rietl AJ, Overlander ME, Nyman JA, & Jackson CR (2016). Microbial Community Composition and Extracellular Enzyme Activities Associated with *Juncus roemerianus* and *Spartina alterniflora* Vegetated Sediments in Louisiana Saltmarshes. Microbial Ecology 71, 290-303

Rietl AJ, & Jackson CR, (2012). Effects of the ecological restoration practices of prescribed burning and mechanical thinning on soil microbial enzyme activities and leaf litter decomposition. Soil Biology and Biochemistry 50, 47-57.

Research Experience

2014 – The 11th annual Wetlands of the Mekong Delta training course, Mahasarakham Thailand
2010 – *Research Intern* – The Netherlands Institute for Ecology, Wageningen, Netherlands
Host: Wim H. van der Putten

Teaching and Outreach

2011-2012 – RNR 1002 Issues in Natural Resource Management (freshmen and Sophomore).

2014-2015 – EPA funded outreach: *Surfactants and Dispersants* – Developed experiments for K-12 teachers to use in class to educate students in environmental toxicology. Specifically, we aimed to relate our outreach to the BP oil spill and to show students how surfactants and dispersants interact to elevate toxicity beyond either substance alone.

Oral Presenatations

Rietl, Anthony J., Sorrentino, M., Roberts, B. Spatial distribution and morphology of the salt marsh periwinkle (*Littoraria irrorata*) in southeastern Louisiana. *Gulf Estuarine Research Society/Society of Wetland Scientists Joint Meeting South Central and South Atlantic Chapters.* Pensacola, FL, November 2016

Rietl, Anthony J., Overlander, Megan E., Nyman, John A., Jackson, Colin R. Effects of vegetation type on sediment microbial community structure and activity in coastal salt marshes of southeastern Louisiana. *Louisiana Association of Professional Biologists.* Baton Rouge, LA, August 2014

Rietl, Anthony J., Nyman, John A., Lindau, Charles W., Jackson, Colin R. Interacting effects of nutrient enrichment and simulated herbivory on methane emissions and methane associated microbial communities from four freshwater wetland plant species. *Louisiana Association of Professional Biologists.* Baton Rouge, LA, August 2013

Rietl, Anthony J., Nyman, John A., Lindau, Charles W., Jackson, Colin R. Interacting effects of nutrient enrichment and simulated herbivory on methane emissions and methane associated microbial communities from four freshwater wetland plant species. *Ecological Society of America Annual Meeting*. Minneapolis, MN, August 2013

Rietl, Anthony J., Nyman, John A., Lindau, Charles W., Jackson, Colin R. Nutrient enrichment and simulated herbivory interact to suppress methane emission at mid-levels of N-enrichment in freshwater wetland microcosms. *The Society of Wetland Scientists Annual Meeting*. Duluth, MN, June 2013

Rietl, Anthony J., Nyman, John A. Methane emissions in a freshwater marsh mesocosm: species specific responses to simulated herbivory. *Gulf Estuarine Research Society*. Dauphin Island, AL, November 2012

Poster Presentations

Rietl, Anthony J., Jackson, Colin R. Belowground effects of ecological restoration practices: Year-round patterns in microbial enzyme activities and leaf litter decomposition. *Ecological Society of America Annual Meeting.* Pittsburg, PA August 4th 2010.

Craig, Anjel, Maynard, Erynn, **Rietl, Anthony J.,** Ryndock, Jason**.** Ecosystem restoration at Strawberry Plains. *Strawberry Plains Audubon Center 2009 Hummingbird Migration Celebration*. Holly springs, MS September 12th 2009.

Jackson, Colin R., **Rietl, Anthony J.,** Wiegers, Kayleigh M., Brewer, Stephen J. Interactions between soil moisture and an invasive plant species on soil microbial

enzyme activity. *Association of Southeastern Biologists*. Birmingham, AL April 3rd 2009.

Grants Awarded

2013 – Sigma Xi Grant - $1,000
2010 – Sigma Xi Grant - *$400*
2009 – USDA Forest Restoration Ecology Grant - *$400*
2009 – USDA Forest Restoration Ecology Graduate Fellowship