

SCOTT F. JONES, PhD

University of North Florida | Department of Biology

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Education

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| PhD, Environmental & Evolutionary Biology <i>University of Louisiana at Lafayette</i> (Advisor: Dr. Mark Hester) | 2018 |
| BS, Biology with Honors (Environmental Studies minor) <i>Calvin University</i> | 2012 |

Employment

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| Assistant Professor , University of North Florida <i>Department of Biology, Jacksonville, FL</i> | 2022-present |
| Biologist , U.S. Geological Survey <i>Western Ecological Research Center, Davis, CA</i> (Mentor: Dr. Karen Thorne) | 2018-2022 |
| Postdoctoral Research Associate , Louisiana Universities Marine Consortium <i>DeFelice Marine Center, Chauvin, LA</i> (Mentor: Dr. Brian Roberts) | 2018 |
| Research Contractor , U.S. Geological Survey <i>Wetland and Aquatic Research Center, Lafayette, LA</i> (Mentor: Dr. Ken Krauss) | 2017-2018 |

Peer-Reviewed Publications

12. Thorne, K., **S.F. Jones**, C. Freeman, K. Buffington, C. Janousek, G. Guntenspergen. 2022. Atmospheric river storm flooding influences tidal marsh elevation building processes. *Journal of Geophysical Research: Biogeosciences*, 127: 32021JG006592. <https://doi.org/10.1029/2021JG006592>
11. **Jones, S.F.**, C.A. Schutte, B.J. Roberts, K.M. Thorne. 2022. Seasonal impoundment management reduces nitrogen cycling but not resilience to surface fire in a tidal wetland. *Journal of Environmental Management*, 303: 114153. <https://doi.org/10.1016/j.jenvman.2021.114153>
10. Thorne, K.M., K.J. Buffington, **S.F. Jones**, J.L. Largier. 2021. Wetlands in intermittently closed estuaries can build elevations to outpace sea-level rise. *Estuarine, Coastal and Shelf Science*, 257: 107386. <https://doi.org/10.1016/j.ecss.2021.107386>
9. **Jones, S.F.**, A. Kennedy, C.M. Freeman, K.M. Thorne. 2021. Intensity of grass invasion negatively correlated with population density and age structure of an endangered dune plant across its range. *Biological Invasions* 23(8): 2451-2471. <https://doi.org/10.1007/s10530-021-02516-5>
8. **Jones, S.F.**, C.N. Janousek, M.L. Casazza, J.Y. Takekawa, K.M. Thorne. 2021. Seasonal impoundment alters patterns of tidal wetland plant diversity across spatial scales. *Ecosphere*, 12(2): e03366. <https://doi.org/10.1002/ecs2.3366>
7. Casazza, M., F. McDuire, **S.F. Jones**, C. Overton, A. Lorenz, J. Yee, C. Feldheim, J. Ackerman, K. Thorne. 2021. How waterfowl use of wetland habitats can inform wetland restoration for multi-species benefits. *Journal of Applied Ecology* 58(9): 1910-1920. <https://doi.org/10.1111/1365-2664.13845>
6. **Jones, S.F.**, C.L. Stagg, E.S. Yando, W.R. James, K.J. Buffington, M.W. Hester. 2021. Stress gradients interact with disturbance to reveal alternative states in salt marsh: multivariate resilience at the landscape scale. *Journal of Ecology* 109: 3211-3223. **Special Feature: Reconciling resilience**

across ecological systems, species and subdisciplines. <https://doi.org/10.1111/1365-2745.13552>

5. Yando, E.S., **S.F. Jones**, M.W. Hester. 2021. Limited mangrove propagule retention at a latitudinal range limit: spatiotemporal patterns at the patch scale. *Estuaries and Coasts*, 44(3): 834-845. <https://doi.org/10.1007/s12237-020-00805-1>
4. Yando, E.S., M.J. Osland, **S.F. Jones**, M.W. Hester. 2019. Jump-starting coastal wetland restoration: A comparison of marsh and mangrove foundation species. *Restoration Ecology*, 27(5): 1145-1154. <https://doi.org/10.1111/rec.12963>
3. **Jones, S.F.**, E.S. Yando, C.T. Hall, C.L. Stagg, M.W. Hester. 2019. Restoration affects sexual reproductive capacity in a salt marsh. *Estuaries and Coasts*, 42(4): 976-986. <https://doi.org/10.1007/s12237-019-00552-y>
2. **Jones, S.F.**, C.L. Stagg, K.W. Krauss, M.W. Hester. 2018. Flooding alters plant-mediated carbon cycling independently of elevated carbon dioxide concentrations. *Journal of Geophysical Research: Biogeosciences*, 123: 1976-1987. <https://doi.org/10.1029/2017JG004369>
1. **Jones, S.F.**, K.W. Krauss, C.L. Stagg, M.W. Hester. 2016. Tidal saline wetland regeneration of sentinel vegetation types in the northern Gulf of Mexico: an overview. *Estuarine, Coastal and Shelf Science*, 174: A1-A10. **Invited review & featured on cover.** <https://doi.org/10.1016/j.ecss.2016.02.010>

Manuscripts Under Review & In Revision

1. Yando, E.*; **S.F. Jones***, W.R. James*, D. Colombano, D. Montemayor, S. Nolte, J. Raw, S. Ziegler, L. Chen, D. Daffonchio, M. Fusi, K. Rogers, L. Sergienko. An integrative salt marsh conceptual framework for global comparisons. *Under review at Limnology and Oceanography Letters*. ***Co-lead authors**

Technical Reports

Jones, S.F., A. Kennedy, C.M. Freeman, K.M. Thorne. 2021. Distribution and Abundance of the Endangered Antioch Dunes Evening-Primrose (*Oenothera deltoides* subsp. *howellii*). In *Distribution, Abundance, and Genomic Diversity of the Endangered Antioch Dunes Evening Primrose (Oenothera Deltoides subsp. Howellii) Surveyed in 2019*. Eds. Thorne & Vandergast. U.S. Geological Survey Open File Report 2021-1017, 40 pp. <https://doi.org/10.3133/ofr20211017>.

Invited Presentations

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| Jones, S.F. . Fire and rain: coastal wetland resilience in an uncertain future. <i>Santa Clara University Environmental Studies and Sciences Department</i> . Oral. Online. | 2022 |
| Jones, S.F. . Understanding coastal ecosystems through a plant lens. <i>University of North Florida Department of Biology</i> . Oral. *online due to COVID-19 | 2022 |
| Jones, S.F. . Quantifying wetland responses to environmental change: plant-mediated ecosystem function. <i>University of Toledo Department of Environmental Science</i> . Oral. | 2021 |
| Jones, S.F. , C. Schutte, B. Roberts, K.M. Thorne. Ecosystem resilience to fire disturbance in Suisun Marsh. <i>Interagency Ecological Program Annual Workshop</i> . Oral. *online due to COVID-19 | 2020 |
| Jones, S.F. , K.M. Thorne, E. Milano, A. Vandergast. Antioch Dunes Evening Primrose conservation: adventures in rare plant diversity. <i>U.S. Fish and Wildlife Service Conservation Science Webinar Series</i> . Oral. Online. | 2020 |
| Jones, S.F. , C. Schutte, B. Roberts, K.M. Thorne. Water management in Suisun Marsh controls ecosystem resilience to fire disturbance. <i>University of California at Davis Wildlife, Fish and Conservation Biology</i> . Oral. | 2020 |

- Jones, S.F.** Quantifying plant-mediated ecosystem function in coastal salt marshes. 2018
Louisiana Universities Marine Consortium. Oral.
- Jones, S.F.**, D.P. Warners. Summer monitoring of the Plaster Creek watershed. 2012
Calvin University Biology Department. Oral.

Contributed Presentations

- Jones, S.F.**, M. Bristow, A. Ryktarsyk, K. Thorne. Land management influences oligohaline tidal marsh carbon cycling and climate mitigation potential. *Joint Aquatic Sciences Meeting 2022*. Grand Rapids, MI. Oral. 2022
- Jones, S.F.**, M.L. Casazza, C.N. Janousek, B.J. Roberts, C.A. Schutte, J.Y. Takekawa, K.M. Thorne. Seasonal impoundment of brackish tidal wetlands in a Mediterranean-type climate: implications for ecosystem function. *Coastal Estuarine Research Federation 26th Biennial Conference*. Oral. *online due to COVID-19 2021
- Jones, S.F.**, M. Ferrell, K. Bandy, K.M. Thorne. Dutch Slough tidal marsh restoration monitoring: launching a program to track ecosystem development. *2021 Bay-Delta Science Conference*. Oral. *online due to COVID-19 2021
- Jones, S.F.**, C. Schutte, B. Roberts, K.M. Thorne. Coastal wetland soil nitrogen concentrations and process rates respond to management history and fire disturbance. *American Geophysical Union Fall Meeting*. Poster. *online due to COVID-19 2020
- Stagg, C.S., E. Ward, C. Daniel, B. Rayfield, L. Windham-Myers, R. Sleeter, B. Sleeter, K. Kroeger, B. Uhan, V. Woltz, J. Liu, W. Conner, R. Day, M. Gonnee, K. Thorne, K. Buffington, **S.F. Jones**, K. Krauss, Z. Zhu. A national assessment of tidal wetland carbon sequestration and GHG emissions with implications for land management in the United States. *American Geophysical Union Fall Meeting*. Poster. *online due to COVID-19 2020
- Jones, S.F.**, C.N. Janousek, M.L. Casazza, J.Y. Takekawa, K.M. Thorne. Long-term water management for waterfowl in brackish marsh induces vegetation state change to saline marsh. *Coastal Estuarine Research Federation 25th Biennial Conference*. Mobile, AL. Oral. 2019
- Jones, S.F.**, C. Schutte, B. Roberts, K.M. Thorne. Water management in Suisun Marsh controls resilience to fire disturbance. *14th Biennial State of the San Francisco Estuary Conference*. Oakland, CA. Poster. 2019
- Jones, S.F.**, C. Schutte, B. Roberts, K.M. Thorne. Initial responses of Suisun Marsh brackish wetlands to fire disturbance. *Society of Wetland Scientists Annual Meeting*. Baltimore, MD. Oral. 2019
- Roberts, B.J., C.A. Schutte, Ryann Rossi, **S.F. Jones**, A.E. Bernhard, A.E. Giblin, E.B. Overton. A large-scale salt marsh mesocosm facility to test the effects of disturbances on wetland ecosystem processes. *American Geophysical Union Fall Meeting*. Washington, DC. Poster. 2018
- Jones, S.F.**, K. Southwick-Thompson, E.S. Yando, C. Bertrand, P. Byerly, P. Pangborn, K. Craig, J. Scioli, S.B. Ferguson. Science & Art: Biology meets Poetry. *The Deep South in the Global South Conference*. Lafayette, LA. Oral. *Panel Co-chair 2018
- Jones, S.F.**, C.L. Stagg, M.W. Hester. Salt marsh resilience to disturbance varies along a hydrologic gradient. *Coastal Estuarine Research Federation 24th Biennial Conference*. Providence, RI. Oral. 2017
- Jones, S.F.**, M.W. Hester. Hypervolumes as a novel method for quantifying restoration outcomes. *Society for Ecological Restoration Southeast Chapter Symposium*. Ocean 2017

Springs, MS. Oral.

Jones, S.F., M.W. Hester. Effects of altered hydrology and elevated CO₂ on *Spartina alterniflora* salt marsh elevation change and carbon balance in Louisiana, USA. 2017
University of Louisiana at Lafayette Graduate Student Appreciation Week. Lafayette, LA. Poster.

Jones, S.F., C.L. Stagg, K.W. Krauss, M.W. Hester. Drivers of coastal salt marsh plant and soil responses to future climate change: effects of altered hydrology and elevated CO₂. 2016
University of Louisiana at Lafayette Graduate Student Symposium. Lafayette, LA. Oral. *2nd place oral

Jones, S.F., C.L. Stagg, K.W. Krauss, M.W. Hester. *Spartina alterniflora* salt marsh response to climate change: effects of altered hydrology and increased atmospheric CO₂. 2016
Gulf Estuarine Research Society and Society of Wetland Scientists South Chapters Joint Meeting. Pensacola Beach, FL. Oral. *1st place oral

Jones, S.F. Abiotic drivers of *Spartina alterniflora* salt marsh structure and function. 2016
University of Louisiana at Lafayette Biology Colloquium. Lafayette, LA. Oral.

Jones, S.F., C.L. Stagg, K.W. Krauss, M.W. Hester. Interactive effects of variable hydrologic regimes and atmospheric CO₂ on *Spartina alterniflora* salt marsh in coastal Louisiana. 2016
State of the Coast 2016. New Orleans, LA. Oral.

Jones, S.F., M.W. Hester. *Spartina alterniflora* marsh response to climate changes and hydrologic regime: implications for coastal management. 2015
University of Louisiana at Lafayette Biology Colloquium. Lafayette, LA. Oral.

Jones, S.F., M.W. Hester. Elevation change and plant community structure in a sediment-slurry restoration site near Port Fourchon, LA. 2014
Society of Wetland Scientists South Central Chapter Fall Meeting. Corpus Christi, TX. Oral.

Jones, S.F., C. L. Stagg, S.A. Graham, I.A. Mendelssohn, M.W. Hester. Elevation change in a sediment-slurry amendment restoration site near Port Fourchon, LA. 2014
State of the Coast 2014. New Orleans, LA. Poster.

Jones, S.F., C.L. Stagg, C.M. Swarzenski, M.W. Hester. Effects of climate change on community structure and resilience in smooth cordgrass (*Spartina alterniflora*) dominated salt marsh. 2013
Society of Wetland Scientists South Central Chapter Fall Meeting. Starkville, MS. Poster.

Jones, S.F., M.W. Hester. Effects of climate change on community structure and resilience in smooth cordgrass (*Spartina alterniflora*) dominated salt marsh. 2013
University of Louisiana at Lafayette Graduate Student Symposium. Lafayette, LA. Oral.

Jones, S.F., D.P. Warners. The Calvin Tree Inventory Project. 2011
Michigan Academy of Science, Arts & Letters. Saginaw, MI. Oral.

Jones, S.F., D.P. Warners. Field botany at Flat Iron Lake Preserve: flower phenology and tree inventory. 2010
West Michigan Regional Undergraduate Science Research Conference. Grand Rapids, MI. Poster.

Teaching

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| Lecturer of Record , <i>University of North Florida</i> General Biology II, Plant Anatomy & Physiology | 2022-present |
| Guest Lecturer , <i>University of North Florida</i> General Biology II ('Introduction to Halophytes') | 2022 |
| Teaching Assistant , <i>University of Louisiana at Lafayette</i> | 2017-2018 |

Fundamentals of Biology II

Guest Lecturer, University of Louisiana at Lafayette 2017-2018

Introduction to Coastal Ecology, Ecology and Taxonomy of Aquatic Plants,
Plant Systematics and Biodiversity, Fundamentals of Biology II

Biology Education Professional Development Certification 2017

University of Louisiana at Lafayette Department of Biology

I designed a 5-week ecology module for all second-semester freshman biology majors,
and launched it in Fundamentals of Biology II.

Lab Teaching Assistant, Calvin University 2012

Research Methodology

Lab Teaching Assistant, Calvin University 2010

Cellular Biology

Mentoring

Senior Seminar Mentor, University of North Florida 2022-present

Mentored 1 senior undergraduate seminar (capstone) project

Technician Mentor, USGS Western Ecological Research Center 2018-present

Mentored and supervised 9 technicians in field, lab, and office settings

Primary Mentor, Research Experience for Undergraduates 2018

Louisiana Universities Marine Consortium

Herbert Leavitt, Eckerd College. "Impact of salt marsh vegetation on soil conditions"

Undergraduate Research Assistant Mentor, University of Louisiana at Lafayette 2014-2018

Mentored 8 undergraduate students in lab and greenhouse

Awards

1st Place STEM Category, Graduate Showcase Paper Competition (\$400) 2018

University of Louisiana at Lafayette Graduate School

1st Place Louisiana Research, Say It In Six Competition (\$300) 2018

University of Louisiana at Lafayette Graduate School

2nd Place, 3 Minute Thesis Competition (\$250) 2017

University of Louisiana at Lafayette Graduate School

Ted Beaulieu, Sr. Scholarship (\$5,000) 2017

Coastal Conservation Association of Louisiana

2nd Place Oral, Graduate Student Symposium 2016

University of Louisiana at Lafayette Biology Department

2nd Place, 3 Minute Thesis Competition (\$350) 2016

University of Louisiana at Lafayette Graduate School

1st Place Oral, SWS-SCC/SAC/GERS Joint Meeting (\$800) 2016

Society of Wetland Scientists South Atlantic/Central Chapters

Doctoral Fellowship (\$108,000 total) 2013-2016

Louisiana Board of Regents

Media & Outreach

Presenter, East Bay Regional Park District Annual Stewardship Seminar 2022

Diversity and ecology of evening primroses in Contra Costa county

Presenter, Suisun Resource Conservation District Spring Landowner Workshop 2022

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| Blue carbon sequestration at Lower Joice | |
| Presenter , <i>Dutch Slough Tidal Restoration Site Visit</i> Met with California Natural Resource Agency Secretary Wade Crowfoot and staff | 2022 |
| Presenter , <i>Dutch Slough Tidal Restoration Site Visit</i> Met with the Delta Independent Science Board and public attendees | 2022 |
| Interview for article , <i>San Francisco Chronicle</i> Discussed Dutch Slough tidal restoration/carbon project for front-page article | 2021 |
| Presenter , <i>Suisun Resource Conservation District Fall Landowner Workshop</i> What is blue carbon? Mitigating climate effects with managed wetlands | 2021 |
| Presenter , <i>Suisun Adaptive Management Advisory Team meeting</i> Seasonal impoundment alters patterns of tidal wetland plant diversity across spatial scales | 2021 |
| STEM Day presenter , <i>Calistoga Jr./Sr. High School</i> Discussed overcoming barriers in science | 2020 |
| Sacramento Tribal Outreach Attendee , <i>Bureau of Indian Affairs</i> Linking Native Nation science needs with USGS expertise | 2019 |
| Interview for article , <i>Nature News & Comment</i> Inspired by Twitter thread | 2019 |
| Science on the Bayou Public presentation with Sci-Art Collective colleagues | 2018 |
| Volunteer judge , <i>Louisiana Region VI Science and Engineering Fair</i> Annual event | 2014-2018 |
| Interview for article , <i>The Daily Advertiser</i> Regarding how the ‘Tax Cuts and Jobs Act’ could affect graduate students | 2017 |
| Project Lead , <i>Acadian Rain Gardens</i> Secured funding (\$2,500) and community support for pilot rain garden installations | 2017 |
| Guest Lecturer , <i>Lafayette, LA area high schools</i> Every semester guest lectures to get high schoolers excited about science | 2013-2016 |
| Middle School Tutor , <i>Camelot Woods</i> After-school program for at-risk youth | 2010 |

Professional Service

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| Peer reviewer , <i>Scientific Journals</i> African Journal of Ecology, Ecological Processes, Ecology, Ecosystem Health and Sustainability, Ecosystems, Estuaries & Coasts, Frontiers in Forests & Global Change, Functional Ecology, Hydrobiologia, Journal of Applied Ecology, Journal of Coastal Research, Journal of Ecology, Limnology & Oceanography, Plant & Soil, Regional Environmental Change, Restoration Ecology, Science of the Total Environment, Waterbirds, Wetlands | 2016-Present |
| Member , <i>Antioch Dunes Plant Recovery Team (informal)</i> Quarterly meetings to discuss listed plant recovery updates, research needs, and feedback for the Antioch Dunes National Wildlife Refuge | 2021-present |
| Panel member , <i>USGS Intern Professional Development Webinar</i> “Applying to Graduate School” | 2021 |
| Expert workshop invitee , <i>California Important Plant Areas- Central Valley</i> Workshop to discuss important plant areas and provide feedback on Central Valley | 2021 |

IPA model, as a regional expert on biodiversity.

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| Session co-convenor and poster chair , <i>American Geophysical Union Fall Meeting</i> Integrating hydrology, biogeochemistry, and ecology in coastal wetlands to understand their response to global environmental change | 2020 |
| Panel member , <i>University of Louisiana at Lafayette Graduate Student Orientation</i> “Making the transition to doctoral studies” | 2016-2018 |
| Graduate student representative , <i>University of Louisiana at Lafayette Graduate Student Appeals Committee</i> | 2016-2017 |
| Steering committee member , <i>University of Louisiana at Lafayette Biology Graduate Student Symposium</i> | 2017 |
| Expert Panel Member , <i>Bloomberg Mayor’s Challenge Idea Accelerator</i> Informed Lafayette, LA pitch centered on stormwater management | 2017 |
| Panel member , <i>University of Louisiana at Lafayette Graduate Student Orientation</i> “Transitioning to graduate school” | 2017 |

Professional Affiliations

American Geophysical Union
Coastal and Estuarine Research Federation
Society of Wetland Scientists