

Ryan J. Rezek Ph.D.

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Education

- Dec 2017 **Ph.D., Coastal and Marine System Science**, Texas A&M University-Corpus Christi.
Advisor: Dr. Jennifer Pollack
Dissertation: [Ecological structure and function of restored habitats across a range of coastal environments.](#)
- Jun 2010 **Masters, Marine Biodiversity and Conservation**, University of California San Diego, Scripps Institution of Oceanography.
- Jun 2007 **B.S., Ecology and Evolutionary Biology**, University of California Santa Cruz

Employment History

- Aug 2021 – *Present* **Assistant Professor**, Department of Marine Science, Coastal Carolina University, Conway, SC
- Jul 2019 - Aug 2021 **Postdoctoral Research Associate**, Florida International University, Miami, FL
Advisor: Dr. Jennifer Rehage
- Jul 2018 - Jul 2019 **Postdoctoral Research Associate**, University of South Florida, Tampa, FL
Advisor: Dr. Susan Bell
- Jan 2018 - Jun 2018 **Adjunct Faculty**, Texas A&M University-Corpus Christi
- Jun 2013 - Dec 2017 **Graduate Research Assistant**, Texas A&M University-Corpus Christi
Advisor: Dr. Jennifer Pollack
- Sep 2012 - Jun 2013 **Adjunct Instructor**, Texas A&M University-Corpus Christi
- Jan 2011 - Aug 2012 **Environmental Monitor/Assistant Biologist**, Chambers Group Inc. San Diego, CA.
- Jul 2007 - May 2009 **Fisheries Technician**, Pacific States Marine Fisheries Commission. Santa Cruz, CA.

Publications

- Rezek, R.J.**, James, W.R., Bautista, V., Zink, I., Rehage, J.S. and Santos, R.O., 2022. Temporal trends of Biscayne Bay pink shrimp fisheries catch, economic indicators, and potential interactions with South Florida recreational flats fisheries. *Environmental Biology of Fishes*, pp.1-19.
- James, W.R., Santos, R.O., Rodemann, J.R., **Rezek, R.J.**, Fratto, Z.W., Furman, B.T., Hall, M.O., Kelble, C.R., Rehage, J.S. and Nelson, J.A., 2022. Widespread seagrass die-off has no legacy effect on basal resource use of seagrass food webs in Florida Bay, USA. *ICES Journal of Marine Science*, 79(6), pp.1831-1842.
- James, W.R., Bautista, V., **Rezek, R.J.**, Zink, I.C., Rehage, J.S. and Santos, R.O., 2022. A review of the potential impacts of commercial inshore pink shrimp fisheries on the recreational flats fishery in Biscayne Bay, FL, USA. *Environmental Biology of Fishes*, pp.1-12.
- Gervasi, C.L., Nelson, J.A., Swart, P.K., Santos, R.O., **Rezek, R.J.**, James, W.R., Jefferson, A.E., Drymon, J.M., Carroll, J., Boucek, R.E. and Rehage, J.S., 2022. Otolith stable isotope micro-sampling to discriminate poorly studied stocks: Crevalle Jack in the eastern gulf of Mexico. *Estuarine, Coastal and Shelf Science*, 278, p.108130.

- Massie, J.A., Santos, R.O., **Rezek, R.J.**, James, W.R., Viadero, N.M., Boucek, R.E., Blewett, D.A., Trotter, A.A., Stevens, P.W. and Rehage, J.S., 2022. Primed and cued: long-term acoustic telemetry links interannual and seasonal variations in freshwater flows to the spawning migrations of Common Snook in the Florida Everglades. *Movement Ecology*, 10(1), pp.1-20
- Jennifer S. Rehage, R. E. Boucek, Rolando O. Santos, Jordan A. Massie, Natasha M. Viadero, **Ryan J. Rezek**. Untangling Flow-Ecology Relationships: Effects of Seasonal Stage Variation on Common Snook Aggregation and Movement Rates in the Everglades. 2022. *Estuaries and Coasts*. doi: <https://doi.org/10.1007/s12237-022-01065-x>
- Santos, R.O., James, W.R., **Rezek, R.J.**, Zink, I., Rehage J.S., Bautista, V. Biscayne Bay shrimp commercial harvest and its potential ecological impacts on recreational fish species. White Paper Submitted to Bonefish and Tarpon Trust, December 2021.
- Gervasi, C.L., Santos, R.O., **Rezek, R.J.**, James, W.R., Boucek, R.E., Bradshaw, C., Kavanagh, C., Osborne, J. and Rehage, J.S., 2021. Bottom-up conservation: Using translational ecology to inform conservation priorities for a recreational fishery. *Canadian Journal of Fisheries and Aquatic Sciences* doi: [10.1139/cjfas-2021-0024](https://doi.org/10.1139/cjfas-2021-0024).
- Nathan J. Waltham, C. Alcott, M. A. Barbeau, J. Cebrian, R. M. Connolly, L. A. Deegan, K. Dodds, L. A. et al. (**R. J. Rezek**). 2021. Tidal marsh restoration optimism in a changing climate and urbanizing seascape. *Estuaries and Coasts*. doi:[10.1007/s12237-020-00875-1](https://doi.org/10.1007/s12237-020-00875-1)
- Ryan J. Rezek**, J. A. Massie, J. A. Nelson, R. O. Santos, N. M. Viadero, R. E. Boucek, and J. S. Rehage. 2020. Individual consumer movement mediates food web coupling across a coastal ecosystem. *Ecosphere*. doi: [10.1002/ecs2.3305](https://doi.org/10.1002/ecs2.3305)
- Ronald Baker, M. D. Taylor, K. W. Able, M. W. Beck, J. Cebrian, D. D. Colombano, et al. (**R. J. Rezek**) 2020. Fisheries rely on threatened salt marshes. *Science*. doi: [10.1126/science.abe9332](https://doi.org/10.1126/science.abe9332)
- Jessica L. Pierce, M. V. Laretta, **R. J. Rezek**, and J. S. Rehage. 2020. Survival of Florida Largemouth Bass in a coastal refuge habitat across years of varying drying severity. *Transactions of the American Fisheries Society*. doi: [10.1002/tafs.10274](https://doi.org/10.1002/tafs.10274)
- Ryan J. Rezek**, B. T. Furman, R. P. Jung, M. O. Hall, and S. S. Bell. 2019. Long-term performance of seagrass restoration projects in Florida, USA. *Scientific Reports*. doi: [10.1038/s41598-019-51856-9](https://doi.org/10.1038/s41598-019-51856-9)
- Ryan J. Rezek**, B. Lebreton, T. A. Palmer, G. W. Stunz, and J. B. Pollack. 2018. Structural and functional similarity of epibenthic communities on standing and reefed platforms in the northwestern Gulf of Mexico. *Progress in Oceanography*. doi: [10.1016/j.pocean.2018.09.020](https://doi.org/10.1016/j.pocean.2018.09.020)
- Ryan J. Rezek**, B. Lebreton, B. Sterba-Boatwright, and J. B. Pollack. 2017. Ecological structure and function in a restored versus natural salt marsh. *PLOS One*. doi: [10.1371/journal.pone.0189871](https://doi.org/10.1371/journal.pone.0189871)
- Ryan J. Rezek**, B. Lebreton, E. B. Roark, T. A. Palmer, and J. B. Pollack. 2017. How does a restored oyster reef develop? An assessment based on stable isotopes and community metrics. *Marine Biology*. doi: [10.1007/s00227-017-3084-2](https://doi.org/10.1007/s00227-017-3084-2)

Professional Presentations

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- 2021 **Rezek R. J.**, Rehage J. S., Trexler, J., Heithaus M., Nelson J. A., et al. Trophodynamics Working Group Progress Update, Florida Coastal Everglades LTER Brown Bag Meeting Series, October 1st 2021 (remote), [Recorded Link](#).
- 2020 **Rezek R. J.**, Rehage J. S., Trexler, J., Heithaus M., Nelson J. A., et al. Progress and future directions of the Florida Coastal Everglades Long Term Ecological Research Program (FCE LTER) Trophodynamics Working Group, FCE LTER All Scientists Meeting 2020. Florida International University (remote).
- 2019 **Rezek R. J.**, Furman B., Jung R., Hall M. O., Bell S. Long-term performance of seagrass restorations in Florida. Oral presentation, Benthic Ecology Meeting. St. John's, Newfoundland, Canada
- 2017 **Rezek R. J.**, Pollack J. B., Lebreton B. Functional equivalence of offshore platforms and “Rigs-to-Reefs” artificial reef communities in the Gulf of Mexico. Oral presentation, Benthic Ecology Meeting. Myrtle Beach, SC

- 2016 **Rezek R. J.**, Pollack J. B., Lebreton B. Community and food web structure in a constructed salt marsh in Nueces Bay, Texas. Oral presentation, Society of Wetland Scientists Annual Meeting. Corpus Christi, TX
- 2016 **Rezek R. J.**, Pollack J.B., Lebreton B. Habitat function in a natural vs. restored *Spartina alterniflora* salt marsh. Oral presentation, Benthic Ecology Meeting. Portland, ME
- 2016 White E., **Rezek R. J.**, Pollack J. B. Continued monitoring of community development in a restored *Spartina alterniflora* salt marsh. Poster presentation, Texas Bays and Estuaries Meeting. Port Aransas, Texas. *Awarded second place student poster presentation (\$100 prize).
- 2015 **Rezek R. J.**, Pollack J. B., Lebreton B. Monitoring Functional Recovery of a Restored Oyster Reef: a population ecology and food web approach. Oral presentation, Benthic Ecology Meeting. Quebec City, Canada.
- 2014 **Rezek RJ**, Pollack J. B., Lebreton B. Incorporating Trophic Analysis into Habitat Assessment of a Restored Oyster Reef. Oral presentation, International Conference of Shellfish Restoration. Charleston, SC

Grants

- 2022 **Rezek J. Ryan (PI)**, Grace Kahmann. 2022. Trophic ecology and isotopic niche overlap of the invasive Peacock eel (*Macragnathus siamensis*) and native fish species in the Florida Everglades. Everglades Foundation. ForEverglades Scholarship. 01/01/2023 – 12/31/2023. **\$25,000**
- 2022 **Ryan J. Rezek (PI)**. 2022. LTER: Drivers of Abrupt Change in the Florida Coastal Everglades. National Science Foundation (Sponsor: Florida International University; Subaward No: 000609) Dates: 06/01/2022-09/15/2022. **\$17,161**
- 2021 W. Ryan James (PI), Jennifer S. Rehage, Rolando O. Santos, **Ryan J. Rezek (Co-PI)**. Seagrass seascape state, stability, and function in relation to water quality in Biscayne Bay. U.S. Environmental Protection Agency (Award to FIU: SF-02D21022-0). **\$347,738**.
- 2021 E. Gaiser (PI), J. Fourqurean, K. Grove, J. S. Rehage, J. Kominoski (**R. J. Rezek role: unfunded collaborator**) 2021-2024. Effects of pulse amplification on the resilience of the Florida Coastal Everglades. National Science Foundation LTER Program, Florida Coastal Everglades. **\$4,750,800**.
<https://fcelter.fiu.edu/>.
- 2016 Coastal and Marine System Science Travel Grant, Texas A&M University-CC - **\$1,000**
- 2016 The Wetland Foundation Conference Travel Grant - **\$1,200**
- 2014 Center for Coastal Studies Awards for Graduate Student Research and/or Travel - **\$1,200**
- 2014 Texas Sea Grant Grants-in-aid of Graduate Research - **\$2,000**
- 2013 University Research Enhancement Grant, Texas A&M Corpus Christi - **\$5,000**
- 2012 Beverage crate donation from Pepsi Bottling Co. Estimated value -**\$8,000**

Awards and Recognitions

- 2021 Outstanding Reviewer Performance Designation (top 2%), *Estuaries and Coasts*. [Link](#)
- 2020 Collaborator of the Year, Florida Coastal Everglades Long Term Ecological Research Program All Scientists Meeting. 2020. Florida International University (remote)