

Julianne Knight Gray

4611 6th Avenue South
St. Petersburg, Florida 33711
joolzknightgray@me.com 228-547-9915

Education

- 2005 MS Coastal Sciences, The University of Southern Mississippi
- 2000 BS Biology, Missouri State University
Thesis: Descriptions of four new species and a new genus belonging to the family Apeudidae (Crustacea: Peracarida: Tanaidacea) from New Zealand marine waters. M.S. Thesis, The University of Southern Mississippi, 88 pp.

Employment

- 2005-present Biological Scientist, Florida Fish and Wildlife, Florida Wildlife Research Institute, St. Petersburg, Florida (part time 2007-2014)
- 2007-2014 Senior Project Scientist, Terra Environmental Services, Tampa, Florida
- 2001-2005 Microbiology Technician, USM-Gulf Coast Research Laboratory, Ocean Springs, Mississippi (full time 2003-2005)

Specializations

- Taxonomic identifications of marine, estuarine and freshwater Arthropoda, Echinodermata and other various invertebrate phyla collected from the southeastern United States, Gulf of Mexico and Caribbean.
- Taxonomic identification of stomach contents of fish from freshwater, marine, estuarine, inshore and offshore Gulf of Mexico waters.
- Taxonomic Illustrations and descriptions of new species of peracarid Crustacea
- Fish Identification and collection
- Marine and estuarine benthic macroinvertebrate sampling (Petit Ponar, Dip nets, Van Veen)
- Design, organize and maintain specimen voucher collections
- Use of YSI and other aquatic instruments
- Marine microbiological sampling and processing
- Field sampling and data collection
- 40-Hr HAZWOPER

Invertebrate Identification Projects

- A 2-year ecological study characterizing the benthic community structure within the area of a thermal discharge from an estuarine/ coastal power plant along Tampa Bay
- A 2-year ecological study characterizing the benthic community structure within the area of a thermal discharge from a coastal power plant along the west coast of Florida, north of Tampa Bay
- Freshwater Arthropoda from FLDEP Stream Condition Index (SCI) studies throughout Florida
- Ongoing monitoring of the marine and estuarine benthic invertebrates surrounding the desalination plant to fulfill permit requirements of the Florida Department of Environmental Protection.
- Marine, estuarine and freshwater planktonic and benthic Arthropoda, Echinodermata and other invertebrates collected as part of a hydrobiological monitoring program in Tampa Bay, Florida
- Freshwater benthic Arthropoda from Barbados
- Marine benthic Arthropoda, Echinodermata and other invertebrates collected from Venice, Florida to fulfill environmental resource permitting requirements
- Estuarine Arthropoda and other invertebrates collected from Turkey Creek on the east coast of Florida

Publications and Presentations

- Bakenhaster, M., **J. Knight Gray**. *In prep.* New diet data for ocean sunfish, *Mola mola*, and sharptail mola, *Masturus lanceolatus* (Tetraodontiformes: Molidae) from gut contents of specimens stranded on the Atlantic coast of Florida
- **Knight Gray, J.** and J. Foster. *In prep.* A new genus and species of caprellid shrimps (Amphipoda: Caprellidae) from shallow protected waters of the eastern Gulf of Mexico.
- **Knight Gray, J.**, G. Bird and R.W. Heard. *In prep.* Two new species and a new genus within the family Apseudidae (Crustacea; Tanaidacea) from the marine waters of New Zealand.
- **Knight, J.** and R.W. Heard. 2006. A new species, *Apseudes larseni* (Crustacea: Tanaidacea), from the marine waters of New Zealand. *Zootaxa*. 1306: 56-67
- **Knight, J.**, K. Larsen and R. Heard. 2003. A new genus and species, *Tumidochelia randyi*, from the Gulf of Mexico (Crustacea: Peracarida: Tanaidacea). *Proceedings of the Biological Society of Washington*. 116(2): 497-502
- 2015 Initial Efforts to Integrate Fish Trophodynamics into Long-term Groundfish Surveys in the Eastern Gulf of Mexico, AFS—Switzer, T.; M. Bakenhaster; B. Hall*; **J. Knight Gray**; G. Ramos; K. Thompson; E. Matheson; D. Chagaris & B. McMichael
- 2015 Taxonomic Utility of Fish Jaw Bones in Stomach Content Analysis and Rapid Development of Illustrated Identification Keys with Stacked Digital Images, AFS—Ramos, G.; B. Hall*; **J. Knight Gray**; M. Bakenhaster; K. Thompson; E. Matheson; D. Chagaris & B. McMichael

Professional Affiliations

- Florida Association of Benthologists (FAB)—President
- Crustacean Society
- Society of Freshwater Sciences (SFS)
- The University of Southern Mississippi Alumni Association
- Missouri State Alumni Association