

OLIVIA H HAWKINS
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Graduate Teaching Assistant
Department of Ecology, Evolution & Organismal Biology
Kennesaw State University
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EDUCATION

- 2019-2021 **M.S.** Kennesaw State University, GA, Integrative Biology
 PI: Chris Sanford
 Thesis: The contribution of the body, pectoral fins, and ribbon
 fin to turning maneuvers of a gymnotiform swimmer
- 2015-2019 **B.S.** University of South Florida, FL, Marine Biology
 Minor: French, *magna cum laude*

RESEARCH EXPERIENCE

- 2019-2021 **Thesis Research**, Kennesaw State University, Kennesaw, GA
 - Determined the contribution of the body, pectoral fins, and ribbon
 fin to turning maneuvers of the Black ghost knifefish, *Apteronotus*
 albifrons
 - Used 3D kinematics and digital particle image velocimetry (DPIV)
 - Skills: High speed videography, DPIV, Matlab, R
- 2019 **Laboratory Technician**, University of South Florida, Tampa, FL
 - Publication prep, graduate project assistance, safety checks [PI:
 Brad J. Gemmell]
- 2018-2019 **SEEDS Fellowship**, Llano River Field Station, Junction, TX
 - Independent research project studying diet overlap and ontogenetic
 diet shifts of two bass species in the North and South Llano Rivers
 with the aid of Texas Parks and Wildlife Inland Fisheries
 Department. [Mentored by Tom Arsuffi and Preston Bean]
 - Skills: R, electroshocking collection, macroinvertebrate sampling
- 2018 **Undergraduate Research:** Hydrodynamics of prey capture in an open
 ocean ctenophore, *Cestum veneris* [PI: Brad J. Gemmell]
 - Skills: Matlab, R, DaVis, ImageJ, brightfield PIV, computational
 fluid dynamics (CFD), zooplankton collections
- 2017 **Research vessel**, R/V HOGARTH, Tampa, FL
 - Tampa Bay fish richness and abundance, shark tagging [Phil
 Motta, Fish Biology course]
 - Skills: Longlining, otter trawling, seine netting
- 2017 **Undergraduate Research:** Upside down jelly (*Cassiopea spp.*)

- nematocyst cell counts [PI: Brad J. Gemmell]
- Skills: Microscopy, R
- 2017 **Undergraduate Research:** Long-term effects of crude oil and chemical dispersant on the clearance rate of the Eastern oyster, *Crassostrea virginica* [PI: Brad J. Gemmell]
- Skills: Microscopy, R
- 2016 **Research vessel, R/V BELLOWS, Tampa, FL**
- Tampa bay fish richness and abundance, shark tagging [Phil Motta, Biology of Sharks and Rays]
- Skills: Longlining, otter trawling, seine netting

TEACHING EXPERIENCE

- 2019-present **Teaching Assistant, BIOL 1108: Biological Principles II Lab, Kennesaw State University, GA**
- Taught labs spanning different topics in biology: physiology, statistics, ecology, vertebrate anatomy, biodiversity, and phylogenetics
- Taught in multiple formats: in person, hybrid, and fully online
- Graded manuscripts, assessments, and a lab practical
- 2019 **Undergraduate Teaching Assistant, University of South Florida, Tampa, FL.**
- Comparative Vertebrate Anatomy Lab
- Helped students with dissections, identification of structures, and gave mini presentations
- 2018-2019 **Bright Young Minds Alliance (BYMA) Tutor**
- Reading and math tutor for students at Greco Middle School in Tampa, FL.

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

- Society of Integrative and Comparative Biology, 2019-present
- Ecological Society of America, 2019-present

HONORS, AWARDS, AND FELLOWSHIPS

- 2020 Top Graduate Presenter: Fall Colloquium, Kennesaw State University, Kennesaw, GA [Research, \$200]
- 2020 SABAC Conference Scholarship [Research, \$50]
- 2018-2019 SEEDS Fellowship, Ecological Society of America [Research]
- 2018-2019 Phi Sigma Theta Honor Society
- 2017-2019 Dean's List (4.0 GPA), University of South Florida, Tampa, FL [Scholarship]

- 2017 National Call for Papers Undergraduate Writing Competition- 1st Place
NAMEPA/ASA, New York City, New York [Research, \$500]
2015-2019 Green and Gold Scholars Award, 2015-2019, University of South Florida,
Tampa, FL [Scholarship]

CERTIFICATIONS

- 2019-present Kennesaw State University IACUC CITES Training
2018-2019 Laboratory Laser Safety Training, University of South Florida, Tampa,
FL
2017-present SDI Open Water and Nitrox SCUBA Certification

PUBLICATIONS

Journal Articles (in preparation)

Hawkins, O.H., Ortega-Jimenez, V., Sanford, C.P. The contribution of the body, pectoral fins, and ribbon fin to turning maneuvers of a gymnotiform swimmer.

Hawkins, O.H.*, Tack, N., DuClos, K.T., Gemmell, B.J. The wing-like morphology of an oceanic plankton predator facilitates capture of evasive prey.

Journal Articles (published)

Garcia, S.M., Du Clos K.T., **Hawkins, O.H.***, Gemmell, B.J. 2020. Sublethal effects of crude oil and chemical dispersants on multiple life history stages of the eastern oyster, *Crassostrea virginica*. *J Mar Sci Eng* 8(10): 10.3390/jmse8100808.

PRESENTATIONS

Conference Presentations:

- 2021 Gemmell, B.J., **Hawkins, O.H.**, Colin, S., Sutherland, K., Costello, J. Propulsion and predation in a uniquely shaped oceanic ctenophore. Society of Integrative and Comparative Biology Annual Meeting. Symposium: Metachronal Coordination of Multiple Appendages for Swimming and Pumping. Virtual. Oral presentation.
- 2021 **Hawkins, O.H.**, Ortega-Jimenez, V., Sanford, C.P. The contribution of the pectoral fins, body, and ribbon fin to turning maneuvers of a gymnotiform swimmer. Society of Integrative and Comparative Biology Annual Meeting. Virtual. Oral presentation.

- 2020 **Hawkins, O.H.**, Ortega-Jimenez, V., Sanford, C.P. The contribution of the pectoral fins, body, and ribbon fin to turning maneuvers of a gymnotiform swimmer. Kennesaw State University, Fall Colloquium. Kennesaw, GA. Oral presentation.
- 2020 Orlando, D. *, **Hawkins, O.H.**, Ortega-Jimenez, V., Sanford, C.P. Building biology: Using an artificial ribbon fin system to understand locomotion of a gymnotiform swimmer, *Apteronotus albifrons*. Kennesaw State University Spring Symposium. Kennesaw, GA. Poster presentation.
- 2019 **Hawkins, O.H.***, Bean, P., Arsuffi T.L. Dietary overlap and ontogenetic diet shifts in Guadalupe bass and largemouth bass in the North and South Llano Rivers. Ecological Society of America. Louisville, KY. Oral presentation.
- 2019 **Hawkins, O.H.***, Tack, N., DuClos, K.T., Gemmell, B.J. Does the wing-like shape of an oceanic plankton predator provide hydrodynamic camouflage? Society for Integrative and Comparative Biology. Tampa, FL. Poster presentation.
- 2018 **Hawkins, O.H.***, Tack, N., DuClos, K.T., Gemmell, B.J. Stealthy ctenophores: The effect of *Cestum veneris* wing morphology on successful prey capture. University of South Florida Undergraduate Research Conference. Tampa, FL. Poster presentation.

Non-Conference Presentations:

- 2019 **Hawkins, O.H.***, Bean P., Arsuffi, T.L. Dietary overlap and ontogenetic diet shift with considerations of oral gape size in Guadalupe bass and largemouth bass in the North and South Llano Rivers. SEEDS National Leadership Meeting. Southwest Research Station, Portal, AZ. Oral presentation.

* denotes undergraduate authorship

GRANTS

- 2019 NSF: Collaborative Research: IDBR: Type A: Diver-Operated Imaging Platform with Complementary Systems for Quantifying Aquatic Organism Interactions
PI: Brad J. Gemmell
- 2019 NSF: SEEDS - Opening Diverse Doors to Ecology
PI: Teresa Mourad

ADMINISTRATION AND LEADERSHIP

- 2020-2021 MSIB Club, Parliamentarian, Kennesaw State University,
Kennesaw, GA.
- 2017-2018 Marine Biology Club, Event Coordinator, University of South
Florida, Tampa, FL

STUDENTS MENTORED

- 2020 Ashlyn Stanalonis, B.S. Biology, Environmental Science
- 2019-2020 Dante Orlando, B.S. Mechanical Engineering student

COMMUNITY OUTREACH

- 2021 4-H of Cobb County Plant Sale
- 2018 Outdoor School Volunteer at Texas Tech University's Llano River Field Station
- 2013-2015 Camp Jada Counselor for American Diabetes Association
- 2012-2015 Jacksonville Zoo and Gardens ZOO Teen