

Clinton Moran, Ph.D.
Department of Biology
The Citadel
171 Moultrie St, Charleston, SC 29409
Email: cmoran3@citadel.edu
Cell phone: (949) 413-2272
Website: formnfunction.weebly.com

Education

2015-2018, Postdoctoral Researcher, Fairfield University, Fairfield, Connecticut.
2015: PhD., Biology, Northern Arizona University, Flagstaff, Arizona.
2011: M.S., Marine Science, Moss Landing Marine Laboratories, Moss Landing, California.
2008: B.A., Biology, Willamette University, Salem, Oregon.

Professional Appointments

2018-Present Assistant Professor, Biology Department, The Citadel, South Carolina

- Environmental Physiology
- Anatomy and Physiology
- Introductory Biology

2016-2018 Adjunct Professor, Biology Department, Fairfield University, Connecticut

- Human Physiology
- Introduction to Marine Science (majors and non-majors)

2015-2018 Postdoctoral Researcher, Fairfield University, Connecticut.

- Feeding, locomotor and muscle physiology in polyphenic bluegill sunfish under NSF grant # IOS1354469.
- Locomotor and muscle physiology of coastal marine species in response to thermal limits.

2011-2015 Lecturer, Northern Arizona University, Arizona.

- Animal Physiology
- Introductory Biology
- Marine Biology
- Minority Health Disparities in the United States

2012-2013 Private advisor for habitat rehabilitation, Northern Arizona University, Arizona.

- Served as native fish council to stream restoration with hopes to develop suitable habitat in a restored aquatic ecosystem.

2009-2011 Assistant to outreach program at Moss Landing Marine Laboratories, California.

- Outreach lectures about marine diversity
- Lessons with K-12 students.

2009-2010 Teaching Assistant, Moss Landing Marine Laboratories, Moss Landing, California.

- Collections and laboratory setup for Ichthyology

Mentored Undergraduates (Funding Obtained)

Fairfield University
Abdul Jawad-Majeed, Caroline Young (\$2,200), Megan Kuscsik, David Bogdan, Gina Dolisi, Caroline Rzucidlo (\$6,200), Rachel Crawford, Rachel Carlowicz (\$3,680), David Neubauer

Northern Arizona University

Andrew Johnson (\$200), Carlos Lerma (\$1,500), Yoradano Jimenez (\$1,500), Tammy Knecht

Funding Received

2018 - The Citadel's professional development grant- \$2,000
2018 - Fairfield University Science Institute- \$1150
2017 - Fairfield University Science Institute- \$850
2014 - ARCS Fellowship- \$7,000
2014 - SICB Charlotte Mangum Student Support Award- \$400
2013 - NAU Graduate Student Government Award- \$300
2012 - 2013 - Genes to the Environment Fellowship Award- \$40,000
2012 - NAU Hooper Fund - \$2,500
2010 - California SEA Grant- \$3,000

Publications ^{*Undergraduate mentee}

Moran, C.J., Young, C.M., Gerry, S.P. Effects of overwintering temperatures on the escape response in cunner (*Tautoglabrus adspersus*). *Journal of Experimental Zoology. In Review.*

Moran, C.J., *Rzucidlo, C.L., Ellerby, D.J., Gerry, S.P. 2018. Laboratory constraints on feeding behaviors in polymorphic bluegill sunfish (*Lepomis macrochirus*). *Freshwater Biology. In Revision.*

Moran, C.J., *Neubauer, D.L., *Rzucidlo, C.L., Gerry, S.P. 2018. Temperature constrains locomotion and muscle function in cunner (*Tautoglabrus adspersus*). *Comparative Biochemical Physiology. In Press.*

Ellerby, D.J., *Berlin, C.G., *Cathcart, K.J., *Dornon, M.K., *Gee, J.K., *Feldman, A. **Moran, C.J.** 2018. Ecotypic variation in bluegill sunfish: pacing performance traits in context with behavior in the field. *Evolutionary Ecology. In Press.*

Moran, C.J., *Carlowicz, R.M., Gerry, S.P. A temperate labrid fish demonstrates compensatory mechanisms to feed at torpor inducing temperatures. *Journal of Zoology. In Press.*

Moran, C.J., Gerry, S.P., O'Neill, M., *Rzucidlo, C., Gibb, A.C. 2018. Behavioral and physiological adaptations to high-flow velocities in Southwestern native chubs (*Gila* spp.) *Journal of Experimental Biology.* 221, 1-9.

Moran, C.J., Ward, D., Gibb, A.C. 2018. Key morphological features favor the success of non-native fish species under altered river conditions in the Colorado River Basin, USA. *Transactions of the American Fisheries Society.* 147, 948-958.

Moran, C.J., *Rzucidlo, C.L., *Carlowicz, R.M., Gerry, S.P. 2018. Stereotyped feeding behaviors of polyphenic bluegill sunfish. *Journal of Zoology.* 305, 116-123.

Moran, C.J., O'Neill, M., Armbruster, J.W. and Gibb, A.C. 2017. Can members of the Southwestern *Gila robusta* species complex be distinguished by their morphological features? *Journal of Fish Biology.* 91(1), 302-316.

Moran, C.J., Ferry, L.A. and Gibb, A.C. 2016. Why does *Gila elegans* have a bony tail? A study of swimming morphology convergence. *Zoology.* 119(3): 175-181.

Gibb, A. C., Staab, K., **Moran, C.J.** and Ferry, L. A. 2015. The teleost intramandibular joint: a mechanism that allows fish to obtain prey unavailable to suction feeders. *Integrative and Comparative Biology,* 55(1), 85-96.

Moran, C.J. and Ferry, L.A. 2014. Bite force and feeding kinematics in the North Pacific Kyphosidae. *Journal of Experimental Zoology* 321A: 189-197.

Moran, C.J. and Ferry, L.A. 2011. Curious food procurement in the family Kyphosidae. Moss Landing Marine Laboratories Master's thesis.

Invited Presentations

Moran, C.J. 2018. Vertebrate feeding mechanisms. Hood College, Frederick, MD.

Moran, C.J. 2018. Putting the COLD in cold blooded: overwintering physiology of cold water fishes. University of North Georgia, Dahlonega, GA.

Moran, C.J. 2018. Putting the COLD in cold blooded: overwintering physiology of cold water fishes. Fitchburg State University, Fitchburg, MA.

Moran, C.J. 2017. Physiological ecology of hibernating labrid fishes. Florida Southern College, Lakeland, FL.

Moran, C.J. 2017. A fish tail: using functional morphology to conserve Arizona's native fish legacy. Invited for State University of New York New Paltz Lecture Series. New Paltz, NY.

Moran, C.J. 2016. A fish tail: using functional morphology to conserve Arizona's native fish legacy. Invited for Donald J. Ross Sr. lecture series. Fairfield, CT.

Moran, C.J. and Ferry, L.A. 2011. Scraping in the north Eastern Pacific Kyphosid. *Girella nigricans*. Arizona State University, Tempe, Arizona.

Presentations *Undergraduate mentee

*Rzucidlo, C.L., **Moran, C.J.** and Gerry, S.P. 2018. Locomotor performance and muscular physiology of tautog (*Tautoga onitis*). Society for Integrative and Comparative Biology. San Francisco, CA. (Poster).

*Young, C.M., **Moran, C.J.** and Gerry, S.P. 2018. Effects of temperature on the escape response of cunner. Society for Integrative and Comparative Biology. San Francisco, CA. (Poster).

*Carlowicz R.M., **Moran, C.J.** and Gerry, S.P. 2018. Temperature effects on feeding kinematics in cunner, a hibernating labrid fish. Society for Integrative and Comparative Biology. San Francisco, CA. (Poster).

Gerry, S.P. and **Moran, C.J.** 2017. Lab versus field: feeding kinematics of polyphenic bluegills (*Lepomis macrochirus*). Gothenburg, Sweden.

Moran, C.J. and Gerry, S.P. 2017. Locomotor physiology of a hibernating fish in the family Labridae. Gothenburg, Sweden. (Poster)

Moran, C.J., *Rzucidlo, C.L., Gerry, S.P. 2017. Locomotor physiology of a hibernating fish in the family Labridae. Society for Integrative and Comparative Biology. New Orleans, LA.

*Rzucidlo, C.L., **Moran, C.J.**, Gerry, S.P. 2017. Do bluegill feed differently in the wild vs. the lab? Society for Integrative and Comparative Biology. New Orleans, LA. (Poster).

*Carlowicz, R., **Moran, C.J.**, *Rzucidlo, C.L., Gerry, S.P. 2017. Variation in feeding behavior in polyphenic bluegill. Society for Integrative and Comparative Biology. New Orleans, LA. (Poster).

Moran, C.J., *Rzucidlo, C.L., Gerry, S.P. 2017. Locomotor muscle kinematics and enzyme activity of polyphenic bluegill sunfish. Society for Integrative and Comparative Biology. New Orleans, LA. (Poster).

- Moran, C.J.**, *Neubauer, D., *Rzucidlo, C., Gerry, S.P. 2016. Feeding behavior variation in polyphonic bluegill sunfish. International Congress of Vertebrate Morphology. Washington, DC.
- Moran, C.J.**, O'Neill, M., Gibb, A.C. 2016. Are Southwestern fishes specialized for a life in flow? Society for Integrative and Comparative Biology. Portland, OR.
- Moran, C.J.** 2015. Intraspecies variation of predator escape response kinematics in Southwestern cyprinid. Society for Integrative and Comparative Biology. West Palm Beach, FL.
- Moran, C.J.** 2014. Temperature impacts on vertebral column morphology in *Gila sp.* Colorado River Aquatic Biologist Meeting. Laughlin, NV.
- Moran, C.J.** and Gibb, A.C. 2014. Convergent evolution of high-performance swimming morphology in an Arizona freshwater fish. Society of Integrative and Comparative Biologists. Austin, TX.
- Moran, C. J.** and Gibb, A.C. 2013 Evolutionary Convergence in a southwestern native fish. Desert Fishes Council. Flagstaff, AZ.
- Moran, C.J.**, *Knecht, T., Gibb, A.C. 2013. My, what big eyes you have, all the better to see you with, all the better to eat you with? Comparing eye diameter in native and non-native fishes of Arizona. Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, NM. (Poster)
- Moran, C.J.**, *Lerma, C., Gibb, A.C. 2013. A tail of two fishes: Evolutionary convergence and divergence in caudal peduncle morphology in southwestern native fishes. Joint Meeting of Ichthyologists and Herpetologists. Albuquerque, NM. (Poster)
- Moran, C.J.**, *Lerma, C., Gibb, A.C. 2013. A tail of two fishes: Evolutionary convergence and divergence in caudal peduncle morphology in southwestern native fishes. Society for Integrative and Comparative Biology. San Francisco CA.
- Moran, C.J.**, *Lerma, C., Gibb, A.C. 2013. A tail of two fishes: Evolutionary convergence and divergence in caudal peduncle morphology in southwestern native fishes. 12th Biannual Conference of the Colorado Plateau. Flagstaff, AZ.
- Moran, C.J.**, *Knecht, T., Gibb, A.C. 2012. My, what big eyes you have, all the better to see you with, all the better to eat you with? Comparing eye diameter in native and non-native fishes of Arizona. 12th Biannual Conference of the Colorado Plateau. Flagstaff, AZ (Poster)
- Moran, C.J.**, *Lerma, C., *Jimenez Y., Gibb, A.C. 2012. Can members of the *Gila* complex be morphologically distinguished across life history stages? Society of Integrative and Comparative Biology. San Francisco, CA. (Poster), Desert Fish Council. Death Valley, CA. and Arizona Department of Game and Fish. Phoenix, AZ.
- Moran, C.J.**, *Knecht, T., Gibb, A.C. 2012. My, what big eyes you have, all the better to see you with, all the better to eat you with? Comparing eye diameter in native and non-native fishes of Arizona. Desert Fish Council. Death Valley, CA.
- Moran, C.J.** and Ferry, L.A. 2011. Curious food procurement in the family Kyphosidae. Society of Integrative and Comparative Biologists. Salt Lake City, UT.
- Moran, C.J.** and Ferry, L.A. 2010. Scraping in the north Eastern Pacific Kyphosid. *Girella nigricans*. Joint Meeting of Ichthyologists and Herpetologists. Providence, RI. (Poster)
- Moran, C.J.** and Ferry, L.A. 2010. Scraping in the north Eastern Pacific Kyphosid. *Girella nigricans*. CSUMB Currents Symposium. Monterey, CA. (Poster)

Outreach

- 2016- Guest lecturer for Bassick High School students, Bridgeport, Connecticut.
- 2014 - Instructor for the Watershed Research and Education Program, Flagstaff, Arizona
- 2013 - Guest lecturer for title 1 classes, Phoenix, Arizona

2012-2013 – Lecturer/Mentor for Initiative to Maximize Student Diversity program, Flagstaff
Arizona

2010 - Guest lecturer on Marine Biodiversity. Pacific Grove, California

Professional Societies

Society of Experimental Biologists

Society of Integrative and Comparative Biologists

American Society of Ichthyologists and Herpetologists

Desert Fishes Council