

## **Dr. Derek D. Hogan**

Texas A&M University-Corpus Christi  
Science & Engineering, Life Sciences

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### **Education**

PhD, University of Windsor, 2007.

BS, Brock University, 2001.

### **Professional Employment**

Assistant Professor, Texas A&M - Corpus Christi. (January 2013 - Present).  
Conduct research and teach courses in my area of expertise

Post-doctoral researcher, University of Wisconsin - Madison. (March 2011 - December 2012).  
Conducted research on the population ecology and environmental chemistry of freshwater fishes of Hawaii

Post-doctoral researcher, Tulane University. (September 2009 - February 2011).  
Conducted research on the population genetics and ecology of freshwater fishes of Hawaii

Post-doctoral Fellow, University of Windsor. (July 2007 - August 2009).  
conducted research on the population genetics and ecology of coral reef fishes of the Caribbean

### **Professional Memberships**

American Society of Ichthyologists and Herpetologists

## **TEACHING**

### **Teaching Experience**

BIMS 2200, PROFESSIONAL SKILLS  
BIOL 2200, PROFESSIONAL SKILLS  
BIOL 4396, DIS: Internship with Texas Parks and Wildlife Department-Coastal Fisheries Division  
BIOL 4432, ICHTHYOLOGY  
BIOL 4590, Special Topics: Coral Reef Systems  
BIOL 5102, GRADUATE DEFENSE SEMINAR  
BIOL 5301, CORAL REEF SYSTEMS  
BIOL 5392, THESIS PROPOSAL  
BIOL 5393, THESIS RESEARCH  
BIOL 5394, THESIS SUBMISSION  
BIOL 5432, BIOLOGY OF FISHES  
BIOL 5590, Special Topics: Ecology and Evolution of Fishes  
BIOL 5940, PROJECT RESEARCH  
FAMA 5102, GRADUATE DEFENSE SEMINAR  
FAMA 5393, THESIS RESEARCH  
FAMA 5394, THESIS SUBMISSION  
FAMA 5940, PROJECT RESEARCH  
MARB 5102, GRADUATE RESEARCH SEMINAR

MARB 5392, THESIS PROPOSAL  
MARB 5393, THESIS RESEARCH  
MARB 5394, THESIS SUBMISSION  
MARB 5940, THESIS PROJECT RESEARCH  
MARB 6102, GRADUATE RESEARCH SEMINAR  
MARB 6301, CORAL REEF SYSTEMS  
MARB 6596, DIS: Hawaiian Stream Field Techniques  
MARB 6940, DISSERTATION PROJECT RESEARCH

## SCHOLARLY AND CREATIVE ACTIVITIES

### Publications

#### Refereed

##### Journal Articles

Gagne, R. B., Hogan, J. D., Pracheil, B., McIntyre, P. B., Hain, E. F., Gilliam, J. F., Blum, M. J. (2014). Spread of an introduced parasite across the Hawaiian archipelago independent of introduced hosts. *Freshwater Biology*, 60(2), 311–322.

Pracheil, B., Hogan, J. D., Lyons, J., McIntyre, P. B. (2014). Using Hard-Part Microchemistry to Advance Conservation and Management of North American Freshwater Fishes. *Fisheries*, 39(10), 451-465.

Hogan, J. D., McIntyre, P. B., Blum, M. J., Gilliam, J. F., Bickford, N. (2014). Consequences of alternative dispersal strategies in a putatively amphidromous fish. *Ecology*, 95(9), 2397–2408.

Chittaro, P. M., Hogan, J. D. (2013). Estimates of connectivity among populations of a coral reef fish using otolith microchemistry. *Coral Reefs*, 32, 341.

#### Non-Refereed

##### Journal Articles

Selwyn, J., Downey-Wall, A., Usseglio, P., Hogan, J. D. (2014). Decadal changes in reef fish recruitment at Turneffe Atoll, Belize: before and after lionfish invasion. *Proceedings of the 66th Gulf and Caribbean Fisheries Institute, 2014*, 213 - 216.

### Presentations

Palmer, G. (Author), Hogan, J. D. (Author & Presenter), Overath, R. D., ". Invasive lionfish (*Pterois volitans*) reduce the abundance but not the genetic diversity of a native reef fish.," 68th Annual Gulf and Caribbean Fisheries Institute Conference, GCFI, Panama City, Panama. (November 2015).

Downey-Wall, A. (Author & Presenter), Selwyn, J. (Author), Hogan, J. D. (Author), "Examination of habitat utilization patterns and source-sink dynamics in the Indo-Pacific lionfish, *Pterois volitans*, for insights into habitat-specific targeted removal," Joint Meeting of Ichthyologists and Herpetologists, ASIH, Reno, Nevada. (July 2015).

Johnson, J. (Author & Presenter), Bird, C. (Author), Johnston, M. (Author), Fogg, A. (Author), Hogan, J. D. (Author), "Genetic composition of invasive lionfish throughout the Atlantic," Joint Meeting of Ichthyologists and Herpetologists, ASIH, Reno, Nevada. (July 2015).

Selwyn, J. (Author & Presenter), Portnoy, D. S. (Author), Heath, D. (Author), Hogan, J. D. (Chair), "Kin aggregations explain a commonly observed genetic pattern in a marine fish species," Joint Meeting of Ichthyologists and Herpetologists, ASIH, Reno, Nevada. (July 2015).

Selwyn, J. D. (Author & Presenter), Portnoy, D. S. (Author), Heath, D. D. (Author), Hogan, J. D. (Author), "Kin aggregations explain a commonly observed genetic pattern in a marine fish species.," Joint Meeting of Ichthyologists and Herpetologists, Reno, NV. (July 2015).

Hogan, D., e. a., "Variability in migration of an amphidromous goby (Gobiidae): causes and consequences.," Joint Meeting of Ichthyologists and Herpetologists, ASIH, Reno, Nevada. (July 2015).

Hogan, D. (Author & Presenter), e. a., "Consequences of alternative dispersal strategies in a putatively amphidromous fish," 43rd Annual Benthic Ecology Meeting, Jacksonville, FL. (March 2014).

johnson, j. (Author & Presenter), Johnston, M. (Author), Hogan, J. D., "Genetic composition of invasive lionfish at the Flower Garden Banks National Marine Sanctuary.," 43rd Annual Benthic Ecology Meeting, Jacksonville, FL. (March 2014).

Hogan, D. (Author & Presenter), e. a., "Consequences of alternative dispersal strategies in a putatively amphidromous fish," Ocean Sciences Meeting, Honolulu, HI. (February 2014).

Selwyn, J. (Author & Presenter), Hogan, J. D. (Author), Downey-Wall, A. (Author), Usseglio, P. (Author), "Decadal changes in reef fish recruitment at Turneffe Atoll, Belize: before and after lionfish invasion.," Gulf and Caribbean Fisheries Institute Annual Conference, Corpus Christi, TX. (October 2013).

Downey-Wall, A. (Author & Presenter), Hogan, J. D. (Author), Selwyn, J. (Author), Usseglio, P. (Author), "haracterization of diet composition of the lionfish, *Pterois volitans*, in Turneffe Atoll, Belize.," Gulf and Caribbean Fisheries Institute Annual Conference, Corpus Christi, TX. (October 2013).

Smith, B. (Author & Presenter), Hogan, J. D., "Variation in lionfish behavior in response to depth, group size, and time-of-day at Bocas del Toro, Panama," Ecological Society of America Conference, ESA, St. Paul, MN. (August 2013).

## **Contracts, Grants and Sponsored Research**

### **Contract**

Hogan, James (Co-Principal), "Control and mitigation of aquatic invasive species in Pacific island streams," Sponsored by Department of Defense - SERDP, Federal, \$1,247,148.00. (February 2015 - Present).

### **Grant**

Hogan, Derek (Principal), Bird, Christopher, "Impacts of the Changing Climate on the Marianas Trench, Rose Atoll, and Pacific Remote Islands Marine National Monuments," Sponsored by TAMUCC, Texas A&M University-Corpus Christi, \$30,000.00. (September 20, 2014 - September 19, 2015).

Hogan, Derek (Principal), "Genomic impacts of invasive lionfish on native coral reef fishes: implications for the persistence of native species.," Sponsored by TAMUCC, Texas A&M University-Corpus Christi, \$3,000.00. (September 1, 2014 - August 31, 2015).

Hogan, James D (Principal), Bird, Chris E (Co-Principal), "Impacts of the Changing Climate on the Marianas Trench, Rose Atoll, and Pacific Remote Islands Marine National Monuments," Sponsored by NOAA-NMFS, Federal, \$89,997.00. (July 1, 2014 - June 30, 2015).

Besonen, Mark (Supporting), Cifuentes, Luis (Principal), Hu, Xinping (Co-Principal), Stunz, Gregory W. (Co-Principal), Wetz, Michael S (Co-Principal), Naehr, Thomas H. (Co-Principal), Fahlman, Andreas (Supporting), Montagna, Paul A. (Supporting), Pollack, Jennifer (Supporting), Hogan, James D (Supporting), Zimba, Paul V. (Supporting), Coffin, Richard (Supporting), "CKD--FUNDED--MRI: Acquisition of Elemental Stable Isotope Chemistry (ESIC) Mass Spectrometer," Sponsored by U.S. National Science Foundation, Federal, \$419,259.00. (October 1, 2013 - September 30, 2014).

Hogan, Derek (Principal), "Genomic impacts of invasive lionfish on native coral reef fishes: implications for the persistence of native species.," Sponsored by TAMUCC, Texas A&M University-Corpus Christi, \$25,000.00. (September 1, 2013 - August 31, 2014).

## **Scholarly and Creative Awards and Honors**

Great Lakes Institute for Environmental Research post-doctoral fellowship, University of Windsor. (2007).

Ontario Graduate Scholarship for Science and Technology, Ontario Government. (2006).

Cyril B. Hallman Scholarship for Academic Excellence, Canterbury College. (2005).

Ontario Graduate Scholarship for Science and Technology, Ontario Government. (2005).

Ontario Graduate Scholarship, OGS. (2004).

## **SERVICE**

### **Department**

Faculty Advisor, Tri-Beta Biology Honors Society. (September 2014 - Present).

Committee Member, Coastal Watershed Biologist Faculty Search Committee. (September 2014 - December 2014).

Committee Member, Early Life-History Fisheries Biologist Faculty Search Committee. (September 2014 - December 2014).

Committee Member, Marine Genomics Faculty Search Committee. (January 2014 - April 2014).

Committee Member, Fisheries Biologist Faculty Search Committee. (September 2013 - December 2013).

Faculty Mentor, Quantitative Fisheries Biologist Faculty Search Committee. (January 2013 - April 2013).

### **College**

Committee Member, BIOL 5-year BS/MS Program Committee. (January 2016 - Present).

Committee Member, Genomics Core Facility Board Member. (January 2013 - Present).

### **University**

Guest Speaker, Island Days. (October 2014 - Present).

Committee Member, Diving Control Board. (July 2014 - Present).

Committee Member, Undergraduate Council. (September 2014 - August 2016).

## **Professional**

Member, American Society of Ichthyologists and Herpetologists. (March 2015 - Present).  
Session Chair, Ocean Sciences Meeting - Examining connectivity in marine populations from unicells to metazoans, using novel and integrated approaches. (February 2014).