# Catheline Y.M. Froehlich

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EDU	<b>CA</b>	TI	ON
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EDUCATION_	
PhD Postgraduate Fellow: University of Wollongong, Australia School of Earth, Atmospheric, and Life Sciences	2018-present
Thesis: Causes and consequences of sociality in coral-dwelling gobies (genus <i>Gobi</i>	odon)
<ul> <li>M.S. University of Texas at Brownsville (now University of Texas Rio Grande Valley), USA</li> <li>Department of Biological Sciences, Biology program, GPA: 4.0</li> <li>Major Advisor: Richard J. Kline</li> <li>Thesis: A comparison of fish communities over different reef configurations in the northwestern Gulf of Mexico</li> </ul>	2012-2014
B.S. University of Massachusetts at Amherst, USA College of Natural Sciences, Pre-veterinary degree, French minor, GPA: 3.7	2008-2012
Study Abroad at University of Queensland, Australia	Feb-Jun 2011
RESEARCH EXPERIENCE	
Zoltan Florian Marine Biology Fellow: Australian Museum Lizard Island Doctoral Fellowship Program	2019-present
Councillor: Australian Coral Reef Society	2019-present
Conference Organizer: Kioloa SEALS Postgraduate Conference University of Wollongong	2019
Postgraduate Research Assistant: University of Wollongong School of Earth, Atmospheric, and Life Sciences	2018-2019
Research Associate II: University of Texas Rio Grande Valley School of Earth, Environmental, and Marine Sciences	2016-2018
Bat Telemetry and Trapping Assistant, Angelo State University TX, USA	2015
Graduate Research Assistant & Fellow: University of Texas at Brownsville Department of Biological Sciences (2012-2014) Department of Graduate Studies (2013-2014)	2012-2014
Support Scientific SCUBA Researcher: University of Texas at Brownsville Department of Biological Sciences	2012
TEACHING EXPERIENCE	
Demonstrator/Teaching Assistant: University of Wollongong Class: Biol 240: Biodiversity of Marine and Freshwater Organisms	2019
Software Teaching: University of Texas Rio Grande Valley Software taught: Zotero, SPSS, PRIMER-E, R programming	2014-2018

Lecturer: University of Texas at Brownsville Classes: General Biology II Lectures	2015
Other tasks: mentored Greater Texas Foundation scholars from minority groups	
Invited Lecturer: University of Texas at Brownsville Lecture: Oceanography: Tsunamis and Coastal Processes	2014
Graduate Teaching Assistant: University of Texas at Brownsville Classes: General Biology I Laboratory, General Biology II Laboratory	2012-2014
SCUBA Teaching Assistant: University of Massachusetts at Amherst Classes: Open Water SCUBA Diving	2012
DIVERSITY/EQUITY/INCLUSION EXPERIENCE	
Equity, Diversity, and Inclusion Committee: Postgraduate Working Group Representative Faculty of Science, Medicine, and Health, University of Wollongong	2020-present
GAPS panelist: Closing the G.A.P.S. (Girls Aren't Pursuing Science) A Summer Institute to Foster Women Scientists and Engineers, Texas Southmost Colle	2016-2017 ege
MAJOR INTERNATIONAL GRANT	
Zoltan Florian Marine Biology Fellowship - AUD\$33,250 Lizard Island Doctoral Fellowship Program, Australian Museum	2019-2022
Project: Advantages of sociality in challenging environments using coral-dwelling §	gobies
VOLUNTARY COMMITMENTS TO RESEARCH	
VOLUNTARY COMMITMENTS TO RESEARCH  Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute	2021
	2021 2018-present
Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute  Conference moderator: ACRS conference, Animal Behavior Society,	-
Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute  Conference moderator: ACRS conference, Animal Behavior Society, and UOW SEALS HDR conference	2018-present
Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute  Conference moderator: ACRS conference, Animal Behavior Society, and UOW SEALS HDR conference  Journal reviewer: Marine Ecology Progress Series, Biology Letters	2018-present 2017-present
Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute  Conference moderator: ACRS conference, Animal Behavior Society, and UOW SEALS HDR conference  Journal reviewer: Marine Ecology Progress Series, Biology Letters  Community Liaison for Third Coast Science For You, a community-based journal	2018-present 2017-present
Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute  Conference moderator: ACRS conference, Animal Behavior Society, and UOW SEALS HDR conference  Journal reviewer: Marine Ecology Progress Series, Biology Letters  Community Liaison for Third Coast Science For You, a community-based journal  OUTREACH EXPERIENCE	2018-present 2017-present 2017-2018
Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute  Conference moderator: ACRS conference, Animal Behavior Society, and UOW SEALS HDR conference  Journal reviewer: Marine Ecology Progress Series, Biology Letters  Community Liaison for Third Coast Science For You, a community-based journal  OUTREACH EXPERIENCE  News Interview: ABC Far North Queensland	2018-present 2017-present 2017-2018
Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute  Conference moderator: ACRS conference, Animal Behavior Society, and UOW SEALS HDR conference  Journal reviewer: Marine Ecology Progress Series, Biology Letters  Community Liaison for Third Coast Science For You, a community-based journal  OUTREACH EXPERIENCE  News Interview: ABC Far North Queensland  Prepared educational material: Mahonia Na Dari's Marine Environment Education Progra	2018-present 2017-present 2017-2018  2021 2021
Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute  Conference moderator: ACRS conference, Animal Behavior Society, and UOW SEALS HDR conference  Journal reviewer: Marine Ecology Progress Series, Biology Letters  Community Liaison for Third Coast Science For You, a community-based journal  OUTREACH EXPERIENCE  News Interview: ABC Far North Queensland  Prepared educational material: Mahonia Na Dari's Marine Environment Education Progre  Co-director and Host: The Graduates Sci-Com podcast	2018-present 2017-present 2017-2018  2021 2021 2019-present
Grant reviewer: U.S. National Marine Fisheries Service's Marine Fisheries Institute  Conference moderator: ACRS conference, Animal Behavior Society, and UOW SEALS HDR conference  Journal reviewer: Marine Ecology Progress Series, Biology Letters  Community Liaison for Third Coast Science For You, a community-based journal  OUTREACH EXPERIENCE  News Interview: ABC Far North Queensland  Prepared educational material: Mahonia Na Dari's Marine Environment Education Progret  Co-director and Host: The Graduates Sci-Com podcast  Skype-A-Scientist Outreach Scientist	2018-present 2017-present 2017-2018  2021 2021 2019-present 2016-present

Public Outreach Educator: South Texas

2012-2018

Oceanarium at Gladys Porter Zoo, Texas Sea Grant Floating Classroom Program, Rio Grande Science and Arts Festival, Alternative Spring Break for the Center for Civic Engagement, Fishing's Future, Judging at the Rio Grande Valley Regional Science and Engineering Fair

## **CURRENT PUBLICATION WORK**

- 4. **Froehlich, C.Y.M.,** Kirby, R., Heatwole, S.J., Klanten, O.S., Hing, M.L. and Wong, M.Y.L. *In prep*. Linking population genomics and sociality in coral-dwelling gobies in the Indo-Pacific region.
- 3. **Froehlich, C.Y.M.,** Heatwole, S.J., Klanten, O.S., Hing, M.L. and Wong, M.Y.L. *In prep.* Maintenance of social structures of coral-reef fishes on a geographic scale.
- 2. **Froehlich, C.Y.M.,** Klanten, O.S., Hing, M.L., Dowton, M., and Wong, M.Y.L. *To be submitted.* Climate induced impacts cause shifts in host specialisation and differential recovery in host-symbiont assemblages.
- 1. **Froehlich, C.Y.M.**, Heatwole, S.J., Klanten, O.S., and Wong, M.Y.L. *In review*. Habitat size, health and saturation do not alter movement decisions or the preference for familiarity in a social coral-reef fish.

#### INTERNATIONAL JOURNAL PUBLICATIONS

- 8. **Froehlich, C.Y.M.,** Klanten, O.S., Hing, M.L., Dowton, M., and Wong, M.Y.L. *2021*. Uneven declines between corals and cryptobenthic fish symbionts from multiple disturbances. *Scientific Reports (impact factor 4.379, quartile 1)*. doi: 10.1038/s41598-021-95778-x.
- 7. **Froehlich, C.Y.M.**, Lee, A., Oquita, R., Cintra-Buenrostro, C.E., and Shively, J.D. *2021*. Reproductive characteristics of red snapper *Lutjanus campechanus* on artificial reefs in different jurisdictions. *Regional Studies in Marine Science (impact factor 1.63)* 47:101936. doi: 10.1016/j.rsma.2021.101936.
- 6. **Froehlich, C.Y.M.,** Garcia, A., Cintra-Buenrostro, C.E., Hicks, D.W., and Kline, R.J. 2021. Structural differences alter residency and depth patterns of red snapper (*Lutjanus campechanus*) at two artificial reefs. *Fisheries Research* (*impact factor 1.874, quartile 1 for aquatic science*) 242:106043. doi: 10.1016/j.fishres.2021.106043.
- 5. Rueger T., Branconi, R., **Froehlich, C.Y.M.**, Heatwole, S.J., Wong, M.Y.L., and Buston, P.M. 2021. The next frontier in understanding the evolution of coral reef fish societies. *Frontiers in Marine Science (impact factor 3.07, quartile 1 for aquatic science)*. 8:665780. doi: 10.3389/fmars.2021.665780.
- 4. **Froehlich, C.Y.M.,** Garcia, A., and Kline, R.J. 2019. Daily movement patterns of red snapper (*Lutjanus campechanus*) on a large artificial reef. *Fisheries Research* (*impact factor 1.874*, *quartile 1 for aquatic science*) 209:49-57. doi: 10.1016/j.fishres.2018.09.006.
- 3. **Froehlich, C.Y.M.,** Lee, A., Oquita, R., Cintra-Buenrostro, C.E., Shively, J.D., and Shipley, J.B. 2018. A comparison of population dynamics from red snapper associated with inshore and offshore artificial reefs in the northwestern Gulf of Mexico. *In: Bortone SA, editor. Marine artificial reef research and development: integrating fisheries management objectives. USA: Transactions of the American Fisheries Society (impact factor: 1.406, quartile 1 for aquatic science), 68.*
- 2. Arney, R.N., **Froehlich, C.Y.M.**, and Kline, R.J. 2017. Recruitment patterns of juvenile fish at an artificial reef in the Gulf of Mexico. *Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science* (*impact factor 1.177*, *quartile 1 for aquatic science*). 9:79-92. doi: 10.1080/19425120.2016.1265031.
- 1. **Froehlich, C.Y.M.,** and Kline, R.J. 2015. Using fish population metrics to compare the effects of artificial reef density. *PLoS One (impact factor 2.806, quartile 1 for aquatic science)*. 10(9):e0139444. doi: 10.1371/journal.pone.0139444.

#### **SCIENCE MEDIA ARTICLES**

1. **Froehlich, C.**, Wong, M., Klanten, O.S. September 2021. Photos from the field: why losing these tiny, loyal fish to climate change spells disaster for coral. *The Conversation*. https://theconversation.com/photos-from-the-field-why-losing-these-tiny-loyal-fish-to-climate-change-spells-disaster-for-coral-167119

## **GOVERNMENT WHITE PAPERS**

- 7. **Froehlich, C.**, Goyen, S., Hoey, A. August 2020. The ACRS comments on revisions of AS/NZS scientific diving standards. *Australian Coral Reef Society submission to the Standards Australia Diving Committee*.
- 6. Wolfe, K., & **Froehlich, C.** August 2020. The ACRS calls for a reassessment of the East Coast Sea Cucumber fishery. Australian Coral Reef Society submission to Department of Agriculture, Water and the Environment regarding Sea Cucumber Fishery (East Coast) Status report for reassessment.
- 5. Suggett, D., **Froehlich, C.**, Scott, A., Sims, C., Ricardo, G., Torda, G., Cumming, G., & Lewis, B. July 2020. The ACRS comments on the Draft Policy on Great Barrier Reef Interventions. *Australian Coral Reef Society submission to the Great Barrier Reef Marine Park Authority*.
- 4. Steinberg, R., **Froehlich, C.**, & Turnbull, J. April 2020. Listing the cauliflower soft coral (*Dendronephthya australis*) as an endangered species. *Australian Coral Reef Society submission to the NSW Fisheries Scientific Committee*.
- 3. Hamylton, S., & **Froehlich**, C. December 2019. Great Barrier Reef outlook report highlights the urgent need to curb carbon emissions and improve water quality. *Australian Coral Reef Society Reef Matters: ACRS commentary on the 2019 Great Barrier Reef Outlook Report*.
- 2. **Froehlich, C.** & Brodie, J. November 2019. The Great Barrier Reef needs evidence-based regulation of farm practices that impact water quality. *Australian Coral Reef Society submission to the Senate Rural and Regional Affairs and transport References Committee.*
- 1. Fordyce, G., Goyen, S., & **Froehlich, C.** September 2019. Submission to the Australian Maritime Safety Authority on the proposed new Marine Order 505. *Australian Coral Reef Society submission to the Australian Maritime Safety Authority*.

#### **CONFERENCE PRESENTATIONS – INTERNAT'L AND NAT'L (\*presenter)**

- 22. **Froehlich, C.Y.M.\***, Heatwole, S.J., Klanten, O.S., Hing M.L., & Wong, M.Y.L. (August 2021). Do social structures of coral-dwelling gobies change along a spatial gradient? Oral Presentation. *The 58<sup>th</sup> Annual Conference of the Animal Behavior Society*. Virtual conference.
- 21. **Froehlich, C.Y.M.\***, Klanten, O.S., Hing M.L., Dowton, M., & Wong, M.Y.L. (July 2021). Host coral plasticity in coral-dwelling gobies (genus *Gobiodon*) following multiple extreme climatic events. Oral Presentation. *The 14<sup>th</sup> International Coral Reef Society Conference*. Virtual Conference.
- 20. Heatwole, S.J., \* **Froehlich, C.Y.M.**, Rueger, T., Klanten, O.S., & Wong, M.Y.L. (July 2021). Multi-scale comparisons of anemonefish social behaviour across ecological contexts for predicting resilience. Poster Presentation. *The 14<sup>th</sup> International Coral Reef Society Conference*. Virtual Conference.
- 19. **Froehlich, C.Y.M.\***, Heatwole, S.J., Klanten, O.S., & Wong, M.Y.L. (December 2020). Who will recover: extreme climatic events affect habitat use and persistence of coral-dwelling fishes. Oral Presentation. *The 60th National Conference of the Ecological Society of Australia*. Virtual Conference.
- 18. Heatwole, S.J., \* **Froehlich, C.Y.M.**, Rueger, T., Klanten, O.S., & Wong, M.Y.L. (December 2020). Large spatial scale comparisons of social behaviour across ecological contexts for predicting resilience. Oral Presentation. *The* 60<sup>th</sup> National Conference of the Ecological Society of Australia. Virtual Conference.

- 17. **Froehlich, C.Y.M.\***, Heatwole, S.J., Klanten, O.S, & Wong, M.Y.L. (November 2020). Getting along: investigating spatial gradients of social hierarchies in groups of coral-dwelling gobies. Oral Presentation. *Annual HDR Conference, TEFKAK Conference, School of Earth, Atmospheric, and Life Sciences, University of Wollongong*, NSW, Australia.
- 16. Heatwole, S.J. \*, **Froehlich, C.Y.M.**, Klanten, O.S., Rueger, T., & Wong, M.Y.L. (November 2020). Comparisons of anemonefish social behaviour across ecological contexts. Oral Presentation. *Annual HDR Conference, TEFKAK Conference, School of Earth, Atmospheric, and Life Sciences, University of Wollongong*, NSW, Australia.
- 15. Heatwole, S.J.\*, Wong, M.Y.L., Rueger, T., **Froehlich, C.Y.M.**, & Klanten, O.S. (July 2020). Conflict vs cooperation: multi-species comparisons and how ecological factors shape social variation. Oral Presentation. *The 57<sup>th</sup> Annual Conference of the Animal Behavior Society*. Virtual conference.
- 14. **Froehlich, C.Y.M.\***, Heatwole, S.J., Klanten, O.S., & Wong, M.Y.L. (July 2020). To swim or not to swim: decisions of translocated coral gobies in relation to habitat quality and social life. Oral Presentation. *The 57<sup>th</sup> Annual Conference of the Animal Behavior Society*. Virtual conference.
- 13. **Froehlich, C.Y.M.\***, Hing, M.L., Klanten, O.S., Dowton, M. & Wong, M.Y.L. (October 2019). Coral bleaching affects assemblages and host coral occupancy of gobies more than cyclones. Oral Presentation. *Annual HDR Conference, Kioloa Postgraduate Conference, School of Earth, Atmospheric, and Life Sciences, University of Wollongong*, NSW, Australia.
- 12. **Froehlich, C.Y.M.\***, Hing, M.L., Klanten, O.S., & Wong, M.Y.L. (May 2019). Consequential detriment to mutual coral and coral gobies following cyclones and bleaching events. Oral Presentation. *Australian Coral Reef Society*. Moreton Island, QLD, Australia.
- 11. **Froehlich, C.Y.M.\*** (November 2018). What is the hype of group living? Investigating sociality in coral-dwelling gobies genus *Gobiodon*. Oral Presentation. *Kioloa Conference and the Center of Sustainable Environmental Solutions, University of Wollongong*, NSW, Australia.
- 10. Oquita, R.\*, **Froehlich, C.Y.M.**, Lee, A., Shively, J.D., Shipley, J.B., & Cintra-Buenrostro, C.A. (April 2018). Age and growth of red snapper (*Lutjanus campechanus*) in four artificial reefs in South Texas. Poster presentation. *University of Texas Rio Grande Valley Engaged Scholar Symposium*. Brownsville, MA, USA.
- 9. Kline, R.J.\*, **Froehlich, C.Y.M.**, & Garcia, A. (January 2018). Home range of red snapper *Lutjanus* campechanus over a large artificial reef. Oral presentation. *42nd Annual Meeting of the Texas* Chapter of the American Fisheries Society. College Station, TX, USA.
- 8. **Froehlich, C.Y.M.\***, Lee, A., Oquita, R., Cintra-Buenrostro, C.A., Shively, J.D., & Shipley, J.B. (August 2017). Inshore and offshore artificial reef comparison of population dynamics of the heavily-fished *Lutjanus campechanus*, Poey, 1860, in the northwestern Gulf of Mexico. Oral presentation. *147th Annual Meeting of the American Fisheries Society*. Tampa, FL, USA.
- 7. **Froehlich, C.Y.M.\***, & Kline, R.J. (February 2015). Using fish population metrics to predict the ideal density of future concrete reefs. Oral presentation. 2<sup>nd</sup> Annual Texas Artificial Reef Consortium. Texas Parks and Wildlife Department, Corpus Christi, TX, USA.
- 6. **Froehlich, C.Y.M.\***, & Kline, R.J. (April 2014). Current composition of sportfish populations at an artificial reef off the coast of Texas. Oral presentation. *Texas Bays and Estuaries*. Port Aransas, TX.
- 5. **Froehlich, C.Y.M.\*** (April 2014). Artificial reef density effects on fish communities and red snapper sizes in the Western Gulf of Mexico. Oral presentation. 3<sup>rd</sup> place award. 16<sup>th</sup> Annual University of Texas at Brownsville Research Symposium. Brownsville, TX, USA.
- 4. **Froehlich, C.Y.M.\***, & Kline, R.J. (March 2014). Culvert reef structure densities may affect fish community diversity in Western Gulf of Mexico. Oral presentation. *117<sup>th</sup> Annual Meeting of the Texas Academy of Science*. Galveston, TX, USA.
- 3. Kline, R.J.\*, **Froehlich, C.Y.M.**, Arney, R.N., & Bollinger, M.A. (January 2014). Characterization of reef fish use by patch configuration on a shallow, turbid culvert reef system. Oral presentation. *Ist Annual Texas Artificial Reef Consortium*. Texas Parks and Wildlife Department, Corpus Christ, USA.

- 2. **Froehlich, C.Y.M.\***, & Kline, R.J. (November 2013). Fish diversity differs among varying densities of culvert reefs in the Gulf of Mexico. Poster presentation. *Gulf and Caribbean Fisheries Institute*. Corpus Christi, TX, USA.
- 1. **Froehlich, C.Y.M.\***, & Kline, R.J. (October 2013). Culvert reef density affects fish communities at an artificial reef in the Gulf of Mexico. Poster presentation. *American Shore and Beach Preservation Association*. South Padre Island, TX, USA.

#### SEMINAR PRESENTATIONS

- 7. "Human impacts on coral reefs and fish behavior." **Froehlich, C.Y.M.** (May 2021). Bionet: The UOW Biology Network. Wollongong, NSW, Australia.
- 6. "Time to get social: what factors of ecology promote group living?" **Froehlich, C.Y.M.** (February 2021). *Lizard Island Research Station Seminar Series*. Lizard Island, QLD, Australia.
- 5. "Advantages of sociality in coral-dwelling fishes." **Froehlich, C.Y.M.** (February 2020). *Lizard Island Research Station Seminar Series*. Lizard Island, QLD, Australia.
- 4. "What is the hype of group living? A goby snapshot from the Indo-Pacific." **Froehlich, C.Y.M.** (September 2018). *Walindi Invited Seminars*. Kimbe Bay, PNG.
- 3. "Diving under the horizon will uplift your spirits as you discover a world full of life: a look into South Texas artificial reefs." **Froehlich, C.Y.M.** (November 2016). *South Texas Border Chapter Texas Master Naturalist Invited Seminars*. Mission, TX, USA.
- 2. "Reaction to underwater predators: does size even matter?" **Froehlich, C.Y.M.** (July 2014). *Monday Night Science Cafe hosted by University of Texas Brownsville Physics Department.* Brownsville, TX.
- 1. "Artificial reef communities: culvert patch density on species diversity." **Froehlich, C.Y.M.** (March 2013). Coastal and Terrestrial Ecology Research Symposium hosted by University of Texas Brownsville. Brownsville, TX, USA.

## **GRANTS**

University Postgraduate Award – Top-Up Stipend Scholarship - AUD\$14,427
University of Wollongong, Australia

Center for Sustainable Ecosystem Solutions Additional Funding Initiative – AUD\$1312 2020
School of Earth, Atmospheric, and Life Sciences, University of Wollongong, Australia
To: Catheline Y.M. Froehlich and Siobhan J. Heatwole
Project: Population genetics of habitat-specialist fishes

Center for Sustainable Ecosystem Solutions Funding Initiative – AUD\$1463 2020 School of Earth, Atmospheric, and Life Sciences, University of Wollongong, Australia Project: Consequences of consecutive climatic disturbances on genetic diversity in coral gobies

ACRS Student Research Award – AUD\$2,500

2020

Australian Coral Reef Society, Australia

Project: Investigating a link between devastating climatic events and changes in genetic diversity in coral-obligate fishes

 $Student\ Writing\ Retreat\ Scholarship-AUD\$364$ 

2020

Australian Coral Reef Society, Australia

Project: Declines among corals and cryptobenthic fish symbionts from multiple disturbances

Center for Sustainable Ecosystem Solutions Funding Initiative – AUD\$2882

2019

School of Earth, Atmospheric, and Life Sciences, University of Wollongong, Australia Project: Population connectivity of coral-dwelling gobies across geographically-discrete reef systems

SMAH HDR Student Travel Grant – AUD\$857 Faculty of Science, Medicine and Health, University of Wollongong, Australia	2019
Student Travel Award – AUD\$390 Australian Coral Reef Society, Australia	2019
Sea Turtle Inc Academic Scholarship - US\$500 Sea Turtle Inc.	2019
Zoltan Florian Marine Biology Fellowship - AUD\$33,250 Lizard Island Doctoral Fellowship Program, Australian Museum Project: Advantages of sociality in challenging environments using coral-dwelling g	2019-2022 obies
University Postgraduate Award – Stipend Scholarship - AUD\$82,788 University of Wollongong, Australia	2019-2021
International Postgraduate Tuition Scholarship - AUD\$131,520 University of Wollongong, Australia	2018-2022
Center for Sustainable Ecosystem Solutions Funding Initiative - AUD\$500  Department of Biological Sciences, University of Wollongong, Australia  Project: Investigating the advantages of sociality in degraded habitats using coral-dv	2018 velling gobies
Study Abroad Scholarship for Coral Reef Ecology in Belize - US\$1,500 The University of Texas at Brownsville, USA	2014
College of Science, Math, and Technology Talent Scholarship - US\$3,400 The University of Texas at Brownsville, USA	2013-2014
Graduate Research Fellowship - US\$15,000  Department of Graduate Studies at The University of Texas at Brownsville, USA  Project: A comparison of fish communities over different reef configurations in the Gulf of Mexico	2013-2014 northwestern
Talent Housing Scholarship - US\$1,500  Department of Residential Life at The University of Texas at Brownsville, USA	2013-2014
AWARDS	
ISBE 2020: Conference Best Abstracts Award International Society for Behavioral Ecology Abstract title: To swim or not to swim: decision making of translocated coral gobies habitat quality and social life	2020 in relation to
ACRS Best Student Presentations – Honorary Mention Australian Coral Reef Society, Australia Project: Consequential detriment to mutual coral and dwelling gobies following cycle bleaching events	2019 lones and
3 <sup>rd</sup> Place Award for Best Presentation 16 <sup>th</sup> Annual University of Texas at Brownsville Research Symposium, USA	2014