

**DANIEL M. COFFEY**

Center for Sportfish Science and Conservation  
 Harte Research Institute for Gulf of Mexico Studies  
 Texas A&M University-Corpus Christi  
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**EDUCATION**


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2012 – 2019	<b>Doctor of Philosophy in Marine Biology</b> University of Hawai‘i at Mānoa Dissertation: <u>Scaling the influence of temperature and oxygen on a vertically migrating deepwater shark</u>	Advisor: Kim Holland, Ph.D.
2010 – 2012	<b>Master of Science in Biology: Specialization in Aquatic Ecology</b> Lund University Thesis: <u>Habitat utilization and vertical movements of the salmon shark (<i>Lamna ditropis</i>) in the eastern North Pacific</u>	Advisor: Barbara Block, Ph.D. (Stanford University)
2005 – 2009	<b>Bachelor of Science in Marine Biology</b> University of California, Santa Cruz	

**POSITIONS HELD**


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2019 – Present	<b>Postdoctoral Research Associate</b> , Center for Sportfish Science and Conservation, Harte Research Institute for Gulf of Mexico Studies, Texas A&M University-Corpus Christi
2015 – 2019	<b>Graduate Research Assistant</b> , Hawai‘i Institute of Marine Biology, University of Hawai‘i at Mānoa
2012 – 2014	<b>Graduate Teaching Assistant</b> , Department of Biology, University of Hawai‘i at Mānoa
2011 – 2012	<b>Research Technician</b> , Tuna Research and Conservation Center, Hopkins Marine Station of Stanford University and Monterey Bay Aquarium

**PEER-REVIEWED PUBLICATIONS** FIRST-AUTHORED: 3 | CITATIONS: 103 | H-INDEX: 6

12. Iosilevskii G, Kong JD, Meyer CG, Watanabe YY, Papastamatiou YP, Royer MA, Nakamura I, Sato K, Doyle TK, Harman L, Houghton JDR, Barnett A, Semmens JM, Ó Maoiléidigh N, Drumm A, O’Neill R, **Coffey DM**, Payne NL. (*in review*, 2020). A general swimming response in exhausted sharks. *Current Biology*.
11. **Coffey DM**, Royer MA, Meyer CG, Holland KN. 2020. Diel patterns in swimming behavior of a vertically migrating deepwater shark, the bluntnose sixgill (*Hexanchus griseus*). *PLoS ONE, Life in Extreme Environments Collection*. 15: e0228253
10. Holland KN, Anderson JM, **Coffey DM**, Holmes BJ, Meyer CG, Royer MA. 2019. A perspective on future tiger shark research. *Frontiers in Marine Science, Research Topic: Future Directions in Research on Marine Megafauna*. 6: 37. **Invited Paper**
9. Hutchinson MR, **Coffey DM**, Holland KN, Itano DG, Kohin S, LeRoy B, Vetter R, Williams A, Wren J. 2019. Movements and habitat use of juvenile silky sharks in the Pacific Ocean inform conservation strategies. *Fisheries Research*. 210: 131-142
8. Bahr KD, **Coffey DM**, Rodgers KS, Balazs GH. 2018. Observations of a rapid decline in

- invasive macroalgal cover linked to green turtle grazing in a Hawaiian marine reserve. *Micronesica*. 2018-07: 1-11
7. Coleman RC, Copus JM, **Coffey DM**, Whitton RK, Bowen BW. 2018. Shifting reef fish assemblages along a depth gradient in Pohnpei, Micronesia. *PeerJ*. 6: e4650
  6. Meyer CG, Anderson JM, **Coffey DM**, Hutchinson MR, Royer MA, Holland KN. 2018. Habitat geography around Hawaii's oceanic islands influences tiger shark (*Galeocerdo cuvier*) spatial behaviour and shark bite risk at ocean recreation sites. *Scientific Reports*. 8: 4945
  5. Payne NL, Meyer CG, Smith JA, Houghton JDR, Barnett A, Holmes BJ, Nakamura I, Papastamatiou YP, Royer MA, **Coffey DM**, Anderson JM, Hutchinson MR, Sato K, Halsey LG. 2018. Combining abundance and performance data reveals how temperature regulates coastal occurrences and activity of a roaming apex predator. *Global Change Biology*. 24: 1884-1893
  4. **Coffey DM**, Carlisle AB, Hazen EL, Block BA. 2017. Oceanographic drivers of the vertical distribution of a highly migratory, endothermic shark. *Scientific Reports*. 7: 10434
  3. Estess EE, Klinger DH, **Coffey DM**, Gleiss A, Rowbotham I, Seitz AC, Rodriguez L, Norton A, Block B, Farwell C. 2017. Bioenergetics of captive yellowfin tuna (*Thunnus albacares*). *Aquaculture*. 468: 71-79
  2. **Coffey DM**, Holland KN. 2015. First autonomous recording of *in situ* dissolved oxygen profiles from free-ranging fish. *Animal Biotelemetry*. 3: 47
  1. Estess EE, **Coffey DM**, Shimose T, Seitz AC, Rodriguez L, Norton A, Block B, Farwell C. 2014. Bioenergetics of captive Pacific bluefin tuna (*Thunnus orientalis*). *Aquaculture*. 434: 137-144

### TECHNICAL REPORTS

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2. Meyer CG, **Coffey DM**, and KN Holland. 2017. Acoustic monitoring of tiger shark (*Galeocerdo cuvier*) movements around Maui 2013-2017. Prepared for: Hawai'i Department of Land and Natural Resources.
1. Meyer CG, Anderson JM, **Coffey DM**, Hutchinson MR, Royer MA, and KN Holland. 2016. Spatial dynamics of tiger sharks (*Galeocerdo cuvier*) around Maui and Oahu. Prepared for: Hawai'i Department of Land and Natural Resources.

### RESEARCH GRANTS

**TOTAL: \$142,131**

2020 – 2022	<b>Texas Parks and Wildlife Department State Wildlife Grant.</b> <i>Movement ecology of shortfin makos off Texas and the Gulf of Mexico</i> . G. Stunz (PI), K. Gibson (Co-PI), D. Coffey (Co-PI)	\$99,831
2020	<b>Gulf Offshore Research Institute.</b> <i>A scientific assessment of the ecological performance and habitat value of standing vs. reefed oil and gas platform habitats</i> . G. Stunz (PI), D. Coffey (Co-PI), M. Streich (Co-PI)	\$20,000
2018	<b>Colonel Willys E. Lord, DVM &amp; Sandina L. Lord Endowed Grant.</b> <i>Assessing performance and habitat suitability of a mesopelagic shark under a changing climate</i> . D. Coffey (PI)	\$1,500
2017	<b>Colonel Willys E. Lord, DVM &amp; Sandina L. Lord Endowed Grant.</b> <i>Adaptations to life in low oxygen: Blood-oxygen binding characteristics of a deepwater shark</i> . D. Coffey (PI)	\$2,500

2016	<b>Colonel Willys E. Lord, DVM &amp; Sandina L. Lord Endowed Grant.</b> <i>Physiological responses to hypoxia in vertically migrating sharks.</i> D. Coffey (PI)	\$4,000
2015	<b>Robinson Family Ocean Studies Assistantship.</b> D. Coffey (PI)	\$1,500
2015	<b>Colonel Willys E. Lord, DVM &amp; Sandina L. Lord Endowed Grant.</b> <i>Adaptations to life in low oxygen.</i> D. Coffey (PI)	\$2,000
2015	<b>Experiment.com Crowdfunding.</b> <i>Stealth tagging of scalloped hammerhead sharks in Hawai‘i.</i> J. Anderson (PI), D. Coffey (co-PI), M. Royer (Co-PI)	\$9,000
2014	<b>Colonel Willys E. Lord, DVM &amp; Sandina L. Lord Endowed Grant.</b> <i>Respiratory and hematological responses of the scalloped hammerhead shark, <i>Sphyrna lewini</i>, to acute changes in dissolved oxygen.</i> D. Coffey (PI)	\$1,800

**SCHOLARSHIPS, AWARDS, AND HONORS****TOTAL: \$47,165**

2020	<b>Award,</b> Texas Comprehensive Research Fund Postdoctoral Support Grant	\$30,000
2019	<b>Travel Award,</b> Vemco Student Award, 5th International Conference on Fish Telemetry	\$1,114
2019	<b>Award,</b> University of Hawai‘i Office of the Vice Chancellor for Research Student Excellence in Research	\$1,000
2019	<b>Travel Award,</b> <i>Journal of Marine Science and Engineering</i>	\$808
2019	<b>Travel Award,</b> <i>Fishes Journal</i>	\$802
2019	<b>Scholarship,</b> Marine Biology Graduate Program Achievement Scholarship	\$500
2018	<b>Scholarship,</b> Hawai‘i Institute of Marine Biology Peter Castro Travel Scholarship	\$1,000
2018	<b>Travel Award,</b> University of Hawai‘i Graduate Student Organization	\$900
2018	<b>Travel Award,</b> American Elasmobranch Society Student Travel Award	\$1,000
2018	<b>Travel Award,</b> International Sustainable Seafood Foundation	\$580
2018	<b>Scholarship,</b> Wildlife Computers Scholarship, 69th Tuna Conference	\$835
2017	<b>Scholarship,</b> University of Hawai‘i Mānoa Opportunity Grant	\$4,000
2016	<b>Scholarship,</b> University of Hawai‘i Mānoa Opportunity Grant	\$4,000
2015	<b>Travel Award,</b> University of Hawai‘i Graduate Student Organization	\$626

**FIELD EXPEDITIONS**

2018	<b>Scientist.</b> <i>BIOT Consortium Expedition, Stanford University, Zoological Society of London, University of Western Australia, M/V Tethys Supporter.</i> 16-day cruise in the Chagos Archipelago, British Indian Ocean Territory (BIOT) for electronic tagging of sharks and mantas, diving to deploy and retrieve underwater acoustic monitoring receivers, and collection of environmental DNA (PI: B. Block).
2016	<b>Scientist.</b> <i>Kona Area Integrated Ecosystems Assessment Project, NOAA, F/V FireHatt.</i> Active acoustic tracking of pelagic sharks in concert with <i>in situ</i> characterization of the deep scattering layer using NOAA Ship Oscar Elton Sette ship-borne acoustic backscatter and deep-water trawls (PI: M Hutchinson).
2016	<b>Scientist, Field PI.</b> <i>Deep Reef Expedition, University of Hawai‘i at Mānoa, NOAA Ship Hi‘ialakai.</i> 25-day cruise in the Papahānaumokuākea Marine National Monument for fish collecting and diving to deploy and retrieve underwater acoustic monitoring receivers (PI: C Meyer).
2015	<b>Scientist.</b> <i>Deep Reef Expedition - Seamounts, University of Hawai‘i at Mānoa, NOAA Ship Hi‘ialakai.</i> 28-day cruise in the Papahānaumokuākea Marine National Monument

- for fish collecting and diving to deploy and retrieve underwater acoustic monitoring receivers (PI: C Meyer).
- 2012 **Scientist**. *Tag-A-Giant Research Program, Stanford University, F/V Sensation*. Electronic tagging of Atlantic bluefin tuna (*Thunnus thynnus*) off North Carolina (PI: B Block).
- 2011 **Scientist**. *Tag-A-Giant Research Program, Stanford University, F/V Bay Queen IV*. Electronic tagging of Atlantic bluefin tuna (*Thunnus thynnus*) in the Gulf of St. Lawrence, Nova Scotia, Canada (PI: B Block).

### PRESENTATIONS (§ indicates a poster)

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#### INVITED PRESENTATIONS

- 2016 *Tracking Hawai'i's Sharks*. Hanauma Bay Educational Lecture Series. Hanauma Bay Nature Preserve. Honolulu, HI.
- 2016 *Tracking Hawai'i's Sharks*. Pacific Islands Ocean Observing System (PacIOOS) Lecture Series. Waikīkī Aquarium, Honolulu, HI.
- 2015 *First autonomous recording of in situ dissolved oxygen profiles from free-ranging fish*. California Academy of Sciences, San Francisco, CA

#### CONTRIBUTED CONFERENCE PRESENTATIONS

- 2020 Bahr KB, **Coffey DM**, Rodgers K, Balazs GH. *Observations of a rapid decline in invasive macroalgal cover linked to green turtle grazing at the Moku o Lo'e Marine Reserve*. 1st Annual Workshop on Green Turtle Diets in Hawai'i. Hawai'i Pacific University.
- 2019 **Coffey DM**, Royer MA, Meyer CG, Holland KN. *Assessing performance and habitat suitability of a vertically migrating deepwater shark under a changing climate*. 5th International Conference on Fish Telemetry. Arendal, Norway.
- 2019 **Coffey DM**. *Assessing performance and habitat suitability of a deepwater shark under a changing climate*. Hawai'i Institute of Marine Biology Scholarship Symposium.
- 2018 Royer MA, **Coffey DM**. *Swimming activity of a vertically migrating deepwater shark in relation to temperature*. 15th Deep-Sea Biology Symposium. Monterey, CA.
- 2018 **Coffey DM**, Royer MA, Meyer CG, Holland KN. *Contrasting diel patterns in swimming behavior of a vertically migrating deepwater shark*. 3rd Sharks International Conference. João Pessoa, Brazil.
- 2018 Hutchinson MR, **Coffey DM**, Anderson JA, Meyer CG, Royer MA, Holland KN, O'Sullivan JB. *Determining habitat utilization and home ranges of the central Pacific scalloped hammerhead shark*. 3rd Sharks International Conference. João Pessoa, Brazil.
- 2018 **Coffey DM**, Hutchinson MR. *Assessing blue shark habitat preferences under a changing climate*. 69th Tuna Conference. Lake Arrowhead, CA.
- 2018 **Coffey DM**, Royer MA, Meyer CG, Holland KN. *Contrasting diel patterns in swimming behavior of a vertically migrating deepwater shark*. 43rd Albert L. Tester Memorial Symposium. University of Hawai'i at Mānoa.
- 2018 Coleman RC, Copus JM, **Coffey DM**, Whitton RK, Bowen BW. *Shifting reef fish assemblages along a depth gradient in Pohnpei, Micronesia*. 43rd Albert L. Tester Memorial Symposium. University of Hawai'i at Mānoa.
- 2018 **Coffey DM**. *Shark blood: oxygen-binding characteristics of a deepwater shark*. Hawai'i Institute of Marine Biology Scholarship Symposium.

- 2018 **Coffey DM**, Carlisle AB, Hazen EL, Block BA. *Oceanographic drivers of the vertical distribution of a highly migratory, endothermic shark*. 2018 Ocean Sciences Meeting. Portland, OR.
- 2017 Hutchinson MR, **Coffey DM**, Royer MA, Holland KN. *Movement behavior and habitat use of pelagic predators in the waters surrounding west Hawai‘i*. Symposium on West Hawai‘i’s Marine Ecosystem: Bridging the Gap Between Science and Management. Kailua-Kona, HI.
- 2017 Holland KN, Jeanniard-du-Dot T, Meyer CG, **Coffey DM**. *Enhanced acquisition of near-real time oceanographic profiles from tagged sharks*. 4th International Conference on Fish Telemetry. Cairns, Australia.
- 2017 **Coffey DM**. *Adaptations to life in low oxygen: metabolic rates and swimming activity of vertically migrating sharks in Hawai‘i*. Hawai‘i Institute of Marine Biology Scholarship Symposium.
- 2016 **Coffey DM**, Royer MA. *Swimming activity of a vertically migrating deepwater shark in relation to temperature and oxygen*. Hawai‘i Institute of Marine Biology Seminar Series.
- 2015 **Coffey DM**, Holland KN. *First autonomous recording of in situ dissolved oxygen profiles from free-ranging fish*. Western Society of Naturalists 96th Annual Meeting. Sacramento, CA.
- 2015 § Estess EE, **Coffey DM**, Shimose T, Seitz AC, Rodriguez L, Norton A, Block B, Farwell C. *Comparative bioenergetics of captive Pacific Bluefin (*Thunnus orientalis*) and yellowfin tuna (*Thunnus albacares*)*. 3rd Climate Impacts on Oceanic Top Predators Symposium. San Sebastian, Spain.
- 2015 Holland KN, **Coffey DM**, Meyer CG, Lindstrom T. *First in situ measurements of ambient oxygen concentrations from free-swimming sharks*. 2015 Annual Symposium of the Fisheries Society of the British Isles. University of Plymouth, England.
- 2015 Meyer CG, Holland KN, Hutchinson MR, Anderson JA, Royer MA, **Coffey DM**. *New insights into coastal habitat use by tiger sharks in Hawai‘i*. 2015 Annual Symposium of the Fisheries Society of the British Isles. University of Plymouth, England.
- 2015 **Coffey DM**, Holland KN. *In situ measurements of dissolved oxygen from a vertically migrating deepwater shark, the bluntnose sixgill (*Hexanchus griseus*)*. 31st American Elasmobranch Society Symposium. Reno, NV.
- 2015 Holland KN, **Coffey DM**, Meyer CG, Lindstrom T. *New stuff: GPS fixes and oxygen profiles from sharks via land-based receivers*. 3rd International Conference on Fish Telemetry. Halifax, Canada.
- 2015 Meyer CG, Holland KN, Hutchinson MR, Anderson JA, Royer MA, **Coffey DM**. *New insights into coastal habitat use by tiger sharks in Hawai‘i*. 3rd International Conference on Fish Telemetry. Halifax, Canada.
- 2015 Holland KN, **Coffey DM**, Lindstrom T. *Another piece to add: empirical measurement of ambient oxygen from free swimming fishes*. 66th Tuna Conference. Lake Arrowhead, CA.
- 2015 **Coffey DM**, Holland KN. *In situ measurements of dissolved oxygen from a vertically migrating deepwater shark, the bluntnose sixgill (*Hexanchus griseus*)*. 40th Albert L. Tester Memorial Symposium. University of Hawai‘i at Mānoa.
- 2014 Estess EE, **Coffey DM**, Shimose T, Seitz AC, Rodriguez L, Norton A, Block B, Fawell C. *Bioenergetics of captive Pacific bluefin tuna (*Thunnus orientalis*): a fifteen-year study*. 65th Tuna Conference. Lake Arrowhead, CA.

- 2013 **Coffey DM**, Carlisle AB, Block BA. *Habitat utilization and vertical movements of the salmon shark (*Lamna ditropis*) in the eastern North Pacific*. 38th Albert L. Tester Memorial Symposium. University of Hawai‘i at Mānoa.
- 2012 § Farwell C, **Coffey DM**, Rodriguez L. *Bioenergetics of captive Pacific bluefin tuna (*Thunnus orientalis*)*. 8th International Aquarium Congress. Cape Town, South Africa.
- 2012 Carlisle AB, Perle C, **Coffey DM**, Goldman K, Block BA. *Variability in the depth distribution of salmon sharks*. American Fisheries Society 142nd Annual Meeting. Minneapolis-St. Paul, MN.

## TEACHING EXPERIENCE

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### UNDERGRADUATE

- 2012 – 2014 **Teaching Assistant. Dept. of Biology, University of Hawai‘i at Mānoa**  
 - Ecology and Evolutionary Biology (BIOL 265L), 3 semesters  
 - Marine Ecology and Evolution (BIOL 301L), 2 semesters
- 2012 **Lab Assistant. Biology, Hopkins Marine Station, Stanford University**  
 Comparative Animal Physiology (BIOHOPK 162H), 1 quarter

### GUEST LECTURES

- 2019 *Under pressure: physiological constraints of a deepwater shark in a changing ocean climate*. Field Problems in Marine Biology (BIOL 403), Department of Biology, University of Hawai‘i at Mānoa.
- 2018 *Revealing the Spatial Dynamics and Behavior of Sharks in Hawai‘i*. Current Topics in Marine Science (MARS 6910), Master of Science in Marine Science, Hawai‘i Pacific University.
- 2018 *Tracking Hawai‘i’s Sharks*. Field Problems in Marine Biology (BIOL 403), Department of Biology, University of Hawai‘i at Mānoa.
- 2017 *Tracking Hawai‘i’s Sharks*. Field Problems in Marine Biology (BIOL 403), Department of Biology, University of Hawai‘i at Mānoa.

## ACADEMIC AND INSTITUTIONAL SERVICE

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- 2014 **Faculty Search Committee Member**. Tenure-track Marine Biologist, Marine Biology Graduate Program, Department of Biology, University of Hawai‘i at Mānoa.

## PROFESSIONAL SERVICE

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### MANUSCRIPTS REVIEWED

- 2020 Journal of Natural History (1), Texas Journal of Science (1), Wildlife Research (1)
- 2019 Ecography (1)
- 2018 Marine Ecology Progress Series (1)

### WORKSHOPS ATTENDED

- 2018 **Workshop Presenter**. Wildlife Computers Tag Data Analysis and Future Directions Workshop. Wildlife Computers, Redmond, WA.
- 2018 **Workshop Participant**. Pacific Islands Ocean Observing System (PacIOOS) Animal Telemetry Network (ATN) Workshop. University of Hawai‘i at Mānoa.

## PROFESSIONAL ASSOCIATIONS

2020 – Present	Sigma Xi
2020 – Present	American Fisheries Society
2018 – Present	International Bio-Logging Society
2016 – 2018	Association for the Sciences of Limnology and Oceanography
2015	Western Society of Naturalists
2014 – Present	American Elasmobranch Society
2013 – 2019	Golden Key International Honour Society

## OUTREACH AND PUBLIC SERVICE

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2020	<b>Interviewee.</b> Department of Biological Sciences, University of North Texas.
2020	<b>Interviewee.</b> Marine Ecology (BIOL 180), Department of Biology, Santa Clara University.
2020	<b>Interviewee.</b> Callisburg High School, Callisburg, TX.
2019	<b>Volunteer.</b> USS Lexington Museum on the Bay, Texas A&M University-Corpus Christi Giving Tuesday.
2019	<b>Invited Guest Speaker.</b> St. James Episcopal School, Corpus Christi, TX. Talk title: <i>Tracking Sharks in the Gulf of Mexico.</i>
2017	<b>Invited Guest Speaker.</b> Nerd Nite Honolulu. Honolulu, HI. Talk title: <i>To Catch a Predator.</i>
2015	<b>Invited Guest Speaker.</b> Taft Intermediate School, Ashland, OH. Talk title: <i>Ocean Exploration.</i>
2015	<b>Poster Judge.</b> 40th Albert L. Tester Memorial Symposium, University of Hawai‘i at Mānoa.
2013 – 2015	<b>Volunteer Scientific Diver.</b> University of Hawai‘i at Mānoa. Coastal restoration project involving the removal and unloading of invasive algae.
2013	<b>Science Judge.</b> State Science and Engineering Fair, Hawai‘i Academy of Science, Honolulu, HI. Senior Research division of Animal Sciences, Cellular & Molecular Biology, and Microbiology.
2013	<b>Outreach Educator.</b> Kahi Kai, Honolulu, HI. Educational and community outreach to promote community awareness on marine conservation and ocean literacy.
2010	<b>International Student Mentor.</b> Lund University, Sweden. Facilitate new international students settling into student life through organization of social activities and orientation programs.

## MEDIA ENGAGEMENTS

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2019	<b>Featured Scientist.</b> Conservation Connection Podcast. <i>Coral Bleaching and Shark Tagging.</i> <a href="https://www.lastchanceendeavors.com/podcast/episode/301f960e/keisha-bahr-and-danny-coFFEY-marine-researchers-at-whalefest-2019-or-coral-bleaching-and-shark-tagging-or-episode-020">https://www.lastchanceendeavors.com/podcast/episode/301f960e/keisha-bahr-and-danny-coFFEY-marine-researchers-at-whalefest-2019-or-coral-bleaching-and-shark-tagging-or-episode-020</a>
2017	<b>Guest Mission Log.</b> Discovering the Deep: Exploring Remote Pacific MPAs Expedition, NOAA Ship Okeanos Explorer. <i>Getting to Know Sixgill Sharks.</i> <a href="http://oceanexplorer.noaa.gov/okeanos/explorations/ex1703/logs/mar18/welcome.html">http://oceanexplorer.noaa.gov/okeanos/explorations/ex1703/logs/mar18/welcome.html</a>
2015	<b>Guest Scientist.</b> ABC Ocean Mysteries with Jeff Corwin. <i>Eye of the Tiger Shark.</i>
2014	<b>Guest Scientist.</b> Nat Geo Wild Aloha Vet. <i>Swimming with Sharks.</i>

- 2014 **Guest Scientist.** ABC Ocean Mysteries with Jeff Corwin. *Hawaii Shark Encounter.*
- 2014 **Featured Scientist.** The Maui News. *Tracking Tiger Sharks on Maui.*  
<https://www.youtube.com/watch?v=TBUqWfCWttU&feature=youtu.be>
- 2012 **Guest Scientist.** Discovery Channel. *Great White Highway.*

## RESEARCH SKILLS

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**AAUS Scientific Diver:** *Texas A&M University-Corpus Christi*

- CPR and First Aid for Professional Divers – Divers Alert Network
- NAUI Master, Rescue, Enriched Air Nitrox, Bluewater/Open Ocean Diver
- SDI/TDI/ERDI Level 1 Inspiration Closed-circuit Rebreather Diver
- Depth Authorization: 130 fsw
- Logged Research Dives: 250+

**Boating Safety:** Small Vessel Operator

- BoatUS Foundation, Hawai'i State Boating Safety Course
- United States Department of the Interior, Motorboat Operator Certification Course, Open Water Module

**Experimental Manipulations**

- Flow-through seawater systems
- Animal husbandry
- Intermittent-flow respirometry

**Field Techniques**

- Fish capture and handling
- Conventional, acoustic, archival and satellite tagging
- Underwater acoustic monitoring receiver array design and maintenance

**Software Programs**

- Ethographer, IGOR Pro, JMP, MATLAB, Minitab, R, and website design