

JASON D. SELWYN

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EDUCATION

Texas A&M University		Corpus Christi, TX
Ph.D. in Marine Biology	Expected May 2022	
M.S. in Marine Biology	August 2015	Advisor: Dr. J. Derek Hogan
Northeastern University		Boston, MA
B.S. in Biology	May 2011	<i>summa cum laude</i>

PUBLICATIONS

8. Beeken, N. S., **J. D. Selwyn**, and J. D. Hogan. 2021. Determining the life history strategy of the cryptobenthic reef gobies *Coryphopterus hyalinus* and *C. personatus*. Marine Ecology Progress Series 659:161–173.
7. Hamilton, A. M.*, **J. D. Selwyn**, R. M. Hamner, H. K. Johnson, T. Brown, S. K. Springer, and C. E. Bird. 2020. Biogeography of shell morphology in over-exploited shellfish reveals adaptive trade-offs on human-inhabited islands and incipient selectively driven lineage bifurcation. Journal of Biogeography 47:1494–1509.
6. **Selwyn, J. D.**, J. E. Johnson, A. M. Downey-Wall, A. M. Bynum, R. M. Hamner, J. D. Hogan, and C. E. Bird. 2017. Simulations indicate that scores of lionfish (*Pterois volitans*) colonized the Atlantic Ocean. PeerJ 5:e3996.
5. Usseglio, P.†, **J. D. Selwyn**†, A. M. Downey-Wall, and J. D. Hogan. 2017. Effectiveness of removals of the invasive lionfish: how many dives are needed to deplete a reef? PeerJ 5:e3043.
4. Harborne, A. R., **J. D. Selwyn**, J. M. Lawson, and M. Gallo. 2017. Environmental drivers of diurnal visits by transient predatory fishes to Caribbean patch reefs. Journal of Fish Biology 90:265–282.
3. MacKay, M. M., B. Würsig, C. E. Bacon, and **J. D. Selwyn**. 2016. North Atlantic humpback whale (*Megaptera novaeangliae*) hotspots defined by bathymetric features off western Puerto Rico. Canadian Journal of Zoology 94:517–527.
2. **Selwyn, J. D.**, J. D. Hogan, A. M. Downey-Wall, L. M. Gurski, D. S. Portnoy, and D. D. Heath. 2016. Kin-Aggregations Explain Chaotic Genetic Patchiness, a Commonly Observed Genetic Pattern, in a Marine Fish. PLOS ONE 11:e0153381.
1. **Selwyn, J. D.**, J. D. Hogan, A. Downey-Wall, and P. Usseglio. 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. Corpus Christi, Texas, USA.

*: Mentored Student, †: Contributed Equally

PUBLICATIONS IN REVIEW & REVISION

6. Rue, C. R.*†, **J. D. Selwyn**†, P. M. Cockett, B. S. Gillis, L. M. Gurski, P. D. Jose, B. L. Kutil, S. Furiness Magnuson, L. López de Mesa, R. D. Overath, D. L. Smee, and C. E. Bird. (in review). Genetic Diversity Across the Mitochondrial Genome of Eastern Oysters (*Crassostrea virginica*) in the Gulf of Mexico (#2021:02:57824:0:0). PeerJ.
5. Blandon, I. R., **J. D. Selwyn**, F. I. Gelwick, R. R. Vega, J. Ruben Chavez, C. Mace, and D. Gatlin III. in review. Effects on Embryonic Development and Survival of Newly Hatched Southern Flounder (*Paralichthys lethostigma*) Larvae Under Conditions of Acute Exposure to Experimental Temperature and Salinity Treatment Combinations (AQREP-D-20-00109). Aquaculture Reports.
4. Broquet, N., J. Scarpa, A. Siccardi, **J. D. Selwyn**, J. Pollack, and D. Vaughan. in review. Challenges Implementing Lobe Coral (*Porites*) Propagation By Microfragmentation In A Philippine Fisherfolk Community (REC-21-098). Restoration Ecology.
3. **Selwyn, J. D.**, E. P. Hunt, D. S. Portnoy, and J. D. Hogan. in review. Maintenance of species boundaries within social aggregations of ecologically similar sister species (MABI-S-21-00219). Marine Biology.
2. Hamner, R. M., **J. D. Selwyn**, E. Krell, S. A. King, and C. E. Bird. in review. Modeling next-generation sequencer sampling error in pooled population samples dramatically reduces false positives in genetic structure tests (MER-20-0061). Molecular Ecology Resources.
1. **Selwyn, J. D.**, and J. D. Hogan. in review. Local dispersal results in kin-aggregation in a social reef fish (MEPS-201901064). Marine Ecology Progress Series.

PUBLICATIONS IN PREPERATION

4. **Selwyn, J. D.**, P. Usseglio, and J. D. Hogan. in prep. Fine-scale microhabitat usage of a putative habitat generalist reef dwelling goby, *Coryphopterus personatus*.
3. Blandon, I. R., F. I. Gelwick, R. R. Vega, J. Cai, D. Gatlin, J. Butler, C. Moore, J. Kayser, and **J. D. Selwyn**. in prep. Effects of temperature and salinity combinations on the survival of Southern flounder (*Paralichthys lethostigma*) pre-metamorphic larvae spawned by parents collected along the environmental cline of the Texas Coast
2. Krell, E.†, **J. D. Selwyn**†, S. Furiness Magnuson, M. French, J. D. Simons, and C. E. Bird. in prep. An Evaluation of Software for Taxonomic Assignment with DNA Metabarcoding.
1. Bennett, B. S. W., **J. D. Selwyn**, R. M. Hamner, R. Sylva, A. Yurkanin, Kipahulu 'Ohana, Nā Mamo O Mū'olea, E. Fielding, and C. E. Bird. in prep. Effectiveness of independent, voluntary community-managed "Rest Areas" in restoring a population of broadcast-spawning marine invertebrates.

PRESENTATIONS

22. Hamilton, A. M., **J. D. Selwyn**, and C. E. Bird. 2019. Biogeography of shell morphology in over-exploited intertidal shellfish reveals attenuated passive thermal resistance on inhabited Hawaiian Islands. Talk, Providence, Rhode Island, USA.
21. ***Selwyn, J. D.**, E. P. Hunt, and J. D. Hogan. 2019. Mixed shoals of the goby species complex *Coryphopterus personatus/hyalinus* in Belize. 8th Annual MSGSO Student Research Forum, Corpus Christi, Texas, USA.
20. Hamilton, A. M., **J. D. Selwyn**, and C. E. Bird. 2019. Biogeography of shell morphology in over-exploited shellfish suggests adaptation on human-inhabited islands and incipient lineage bifurcation. 8th Annual MSGSO Student Research Forum, Corpus Christi, Texas, USA.
19. **Selwyn, J. D.**, P. Usseglio, and J. D. Hogan. 2019. Fine-scale microhabitat usage of a putative habitat generalist reef dwelling goby, *Coryphopterus personatus*. Southern Division of the American Fisheries Society Annual Meeting, Galveston, Texas, USA.
18. **Selwyn, J. D.**, J. E. Johnson, A. M. Downey-Wall, A. M. Bynum, R. M. Hamner, J. D. Hogan, and C. E. Bird. 2018. *Veni vidi vici*: How many lionfish came to conquer the Atlantic? Joint Meeting of Ichthyologists and Herpetologists, American Society of Ichthyology and Herpetology, Rochester, New York, USA.
17. **Selwyn, J. D.**, P. Usseglio, and J. D. Hogan. 2018. Fine-scale microhabitat usage of a putative habitat generalist reef dwelling goby, *Coryphopterus personatus*. Benthic Ecology Meeting, Corpus Christi, Texas, USA.
16. **Selwyn, J. D.**, J. E. Johnson, A. M. Downey-Wall, A. M. Bynum, R. M. Hamner, J. D. Hogan, and C. E. Bird. 2018. *Veni vidi vici*: How many lionfish came to conquer the Atlantic? Texas Chapter of the American Fisheries Society Annual Meeting, College Station, Texas, USA.
15. **Selwyn, J. D.**, P. Usseglio, and J. D. Hogan. 2017. Fine-scale microhabitat usage of a putative habitat generalist reef dwelling goby, *Coryphopterus personatus*. 7th Annual MSGSO Student Research Forum, Corpus Christi, Texas, USA.
14. **Selwyn, J. D.**, P. Usseglio, and J. D. Hogan. 2017. Fine-scale microhabitat usage of a putative habitat generalist reef dwelling goby, *Coryphopterus personatus*. Joint Meeting of Ichthyologists and Herpetologists, American Society of Ichthyology and Herpetology, Austin, Texas, USA.
13. **Selwyn, J. D.**, P. Usseglio, A. M. Downey-Wall, and J. D. Hogan. 2017. Effectiveness of removals of the invasive lionfish: how many dives are needed to deplete a reef? Texas Chapter of the American Fisheries Society Annual Meeting, Corpus Christi, Texas, USA.
12. **Selwyn, J. D.**, J. E. Johnson, A. M. Bynum, A. M. Downey-Wall, J. D. Hogan, and C. E. Bird. 2016. How many lionfish was it really? 6th Annual MSGSO Student Research Forum, Corpus Christi, Texas, USA.
11. Curtis-Quick, J., A. R. Harborne, A. M. Hendrix, A. Waldman, R. Drummond, A. Feiler, E. O'Hara, H. Conlon, S. E. Miller, **J. D. Selwyn**, S. J. Green, J. L. Akins, and I. M. Côté. 2016. Lionfish feeding habits and the implications for reef benthic cover. 13th International Coral Reef Symposium, Honolulu, Hawaii, USA.
10. **Selwyn, J. D.**, D. S. Portnoy, D. D. Heath, and J. D. Hogan. 2016. Local dispersal leading to family groups in a widespread Caribbean goby. 13th International Coral Reef Symposium, Honolulu, Hawaii, USA.
9. Curtis-Quick, J., A. Hendrix, A. Waldman, A. Brown, R. Drummond, A. Feiler, S. Miller, **J. D. Selwyn**, S. Green, J. L. Akins, and I. M. Côté. 2016. The lionfish invasion: cause the decline. The Bahamas Natural History Conference, Nassau, The Bahamas.
8. MacKay, M. M., C. E. Bacon, B. G. Würsig, and **J. D. Selwyn**. 2015. Humpback Whales (*Megaptera novaeangliae*) Cluster by Geological Features Off Puerto Rico, USA. Society of Marine Mammalogy, San Francisco, California, USA.
7. **Selwyn, J. D.**, D. Portnoy, D. Heath, and D. Hogan. 2015. Kin aggregations explain a commonly observed genetic pattern in a marine fish species. Joint Meeting of Ichthyologists and Herpetologists, American Society of Ichthyology and Herpetology, Reno, Nevada, USA.
6. **Selwyn, J. D.**, D. Portnoy, D. Heath, and D. Hogan. 2015. The Essence of Chaos: Family groups in a ubiquitous Caribbean Goby. Harte Research Institute Seminar Series, Harte Research Institute, Corpus Christi, Texas, USA.
5. **Selwyn, J. D.**, D. Portnoy, D. Heath, and D. Hogan. 2015. The Essence of Chaos: Family groups in a ubiquitous Caribbean Goby. Graduate Student Symposium, Dauphin Island Sea Lab, Dauphin Island, Alabama, USA.
4. **Selwyn, J. D.**, A. Downey-Wall, L. Gurski, D. S. Portnoy, D. D. Heath, and J. D. Hogan. 2015. Family groups in a ubiquitous

Caribbean Goby. Marine Biology IDP Retreat and Science Symposium, College Station, Texas, USA.

3. ***Selwyn, J. D.**, A. Downey-Wall, L. Gurski, D. S. Portnoy, D. D. Heath, and J. D. Hogan. 2014. Family groups in a ubiquitous Caribbean Goby. 4th Annual MSGSO Student Research Forum, Corpus Christi, Texas, USA.
2. **Selwyn, J. D.**, A. Downey-Wall, P. Usseglio, and J. D. Hogan. 2013. Decadal changes in reef fish recruitment at Turneffe Atoll, Belize: before and after lionfish invasion. Gulf and Caribbean Fisheries Institute, Corpus Christi, Texas, USA
1. Keafer, B.A., B.G. Crespo, K. Norton, **J. D. Selwyn**, M. Richlen, D. Farber, H. Lind, M. Hickey, T. O'Neil, and D.M. Anderson. 2009. Toxic *Alexandrium fundyense* blooms in the Nauset Marsh system on Cape Cod Massachusetts. Fifth Symposium on Harmful Algae in the U.S., Ocean Shores, Washington, USA.

*: Won Award, Underlined: Presenting Author

POSTERS

9. Ruben, Z., C. Bird, A. Bucol, **J. Selwyn**, K. Carpenter, E. Garcia, and I. Lopez. 2020. Evaluating the Effect of Selective Fishing Pressures on Size and Reproductive Capability of a Philippine Reef Fish. Ocean Sciences Meeting, San Diego, California, USA
8. Broquet, N., **J. Selwyn**, D. Vaughan, J. Pollack, A. Siccardi, and J. Scarpa. 2020. Applicability of the Microfragmentation Technique to Propagate Corals in a Fisherfolk Community in the Philippines. Aquaculture America, Honolulu, Hawai'i, USA.
7. **Selwyn, J. D.**, E. P. Hunt, D. S. Portnoy, and J. D. Hogan. 2019. Mixed shoals of the goby species complex *Coryphopterus personatus/hyalinus* in Belize. Joint Meeting of Ichthyologists and Herpetologists, American Society of Ichthyology and Herpetology, Snowbird, Utah, USA.
6. Bachner, M., **J. D. Selwyn**, and C. E. Bird. 2019. Morphological response of *Siganus fuscescens* to variability in fishing pressure. 8th Annual MSGSO Student Research Forum, Corpus Christi, Texas, USA.
5. **Selwyn, J. D.**, J. E. Johnson, A. M. Downey-Wall, A. M. Bynum, R. M. Hamner, J. D. Hogan, and C. E. Bird. 2017. *Veni vidi vici*: How many lionfish came to conquer the Atlantic? Marine Aquarium Conference of North America, Marine Aquarium Society of North America, New Orleans, Louisiana, USA.
4. **Selwyn, J. D.**, A. Downey-Wall, P. Usseglio, and J. D. Hogan. 2013. Decadal changes in reef fish recruitment at Turneffe Atoll, Belize: before and after lionfish invasion. Texas A&M System 11th Pathways Annual Conference, Kingsville, Texas, USA.
3. Downey-Wall, A., **J. D. Selwyn**, P. Usseglio, and J. D. Hogan. 2013. Characterization of diet composition of the lionfish, *Pterois volitans*, in Turneffe Atoll, Belize. Corpus Christi, Texas, USA.
2. Cram, L., N. Grune, K. Forness, G. Taliaferrow, A.-M. Carroll, E. Witte, S. Miller, and **J. D. Selwyn**. 2012. Biotic Factors that Influence the Re-colonization of Lionfish (*Pterois volitans*) on Patch Reefs in South Eleuthera. The Cape Eleuthera Island School Research Symposium, Cape Eleuthera, The Bahamas.
1. Harpin, K., J. Morris, M. Philipp, F. Rappaport, T. Tracy, L. Zweig, S. Auscavitch, T. Christie, S. Miller, and **J. D. Selwyn**. 2011. Effects of Grouper and Reef Type on Lionfish (*Pterois volitans*) Distribution, Cape Eleuthera, The Bahamas. The Cape Eleuthera Island School Research Symposium, Cape Eleuthera, The Bahamas.

AWARDS, SCHOLARSHIPS & GRANTS – (\$11,000)

• Steven Berkeley Marine Conservation Fellowship – Runner Up	\$1,000
• Carl R. Beaver Memorial Scholarship (5x)	\$5,000
• Karen Koester Dodson Memorial Fund Grant	\$1,000
• Texas SeaGrant: Grants in Aid of Research (2x)	\$3,000
• TAMUCC College of Science and Engineering Graduate Scholarship	\$1,000

RESEARCH EXPERIENCE

Texas A&M University

Statistical Consultant

August 2019 – Present

Corpus Christi, TX

- Assist graduate students and faculty with statistical design and analysis

CC-TAMUCC COVID19 Taskforce

Modeler

March 2020 – June 2021

Corpus Christi, TX

- Implement and develop statistical models to allow governmental planning and response to the COVID-19 pandemic
- Assist in production of weekly reports to Nueces County, Corpus Christi, and the public on the progress and forecast of the spread of the COVID-19 pandemic

Texas A&M University

<i>Research Assistant</i>	January 2016 – July 2018 August – December 2020	Corpus Christi, TX
<ul style="list-style-type: none"> Marine Biology Ph.D. Research Assistantship designed to allow recipients to focus on and expand their dissertation research to a more well-rounded dissertation 		
Fundación In-nova Centro de Innovación		
<i>Statistical Consultant</i>	August 2017 – November 2017	Toledo, Spain
<ul style="list-style-type: none"> Remotely develop statistical model for estimating the number of deer present in a farm from areal drone surveys 		
Research Assistant/Technician		
<i>Patricia Cockett Ph.D. Research</i>	January – June 2015	Corpus Christi, TX
<ul style="list-style-type: none"> Create statistical programs and functions to analyze pooled RADseq data. 		
<i>Alan Downey-Wall Master's Research</i>	June – August 2014	Turneffe Atoll, Belize
<ul style="list-style-type: none"> Collection of the invasive red lionfish Planning of summer research activities including logistics, diving safety, and supplies 		
<i>Grayce Palmer Master's Research</i>	January & October 2014	Bocas del Toro, Panama
<ul style="list-style-type: none"> Collection of <i>Stegastes partitus</i> for research on genetic impact of the invasive red lionfish 		
<i>Paul Caiger Ph.D. Research</i>	October 2012 – February 2013	Auckland, New Zealand
<ul style="list-style-type: none"> Diving assistance for research investigating the effect of habitat on growth and fitness of triplefins 		
<i>Kirsten Martin Master's Research</i>	July – August 2012	Wellfleet, MA
<ul style="list-style-type: none"> Surveyed heathland habitats for grass/shrub biodiversity Collected soil samples and process for nutrients 		
<i>Bailey Clear's Master's Research</i>	August – November 2011	Eleuthera, The Bahamas
<ul style="list-style-type: none"> Collected microhabitat usage data for lionfish and similar sized native grouper Assisted with manuscript writing, editing, and statistical analysis Analyzed fish species, family, and feeding guild diversity 		
<i>Heidi Block's Master's Research</i>	January – March 2010	Moorea, French Polynesia
<ul style="list-style-type: none"> Assisted in the collection of <i>Gnatholepis caurensis</i> and <i>Chromis viridis</i> recruits for a mortality study 		
Cape Eleuthera Institute		
<i>Lionfish Research Assistant</i>	January – July 2012	Eleuthera, The Bahamas
<ul style="list-style-type: none"> Survey fish biodiversity, benthic habitat type, coral cover, and rugosity Designed and performed a habitat mapping project Organize and participate in outreach events at local farmer's markets and restaurants Analyze videos to determine transient predator usage of patch reefs Mentor interns and organize professional development activities 		
<i>Lionfish Research and Education Intern</i>	August – December 2011	Eleuthera, The Bahamas
<ul style="list-style-type: none"> Performed monthly fish biodiversity surveys on patch reefs Performed dissections, gut content analysis, and otolith removal on lionfish Environmental impact monitoring and maintenance of offshore aquaculture cage 		
New England Aquarium		
<i>Giant Ocean Tank Assistant Aquarist</i>	July 2010 – August 2011	Boston, MA
<ul style="list-style-type: none"> Performed daily maintenance and feeding dives and assisted with husbandry responsibilities such as record keeping, food preparation, cleaning, and transports Monitored damselfish egg mass production Participated in the transport of live animals including large sharks between aquarium sites Supervised and trained volunteers and interns 		
<i>Penguin Husbandry Co-op and Volunteer</i>	January 2008 – August 2009	Boston, MA

- Assisted penguin staff with husbandry responsibilities including record keeping, food preparation, feeding, cleaning, and handling
- Supervised and trained volunteers and presented educational programs

Woods Hole Oceanographic Institute

Woods Hole, MA

Research Assistant

January – July 2009

Dr. Don Anderson

- Collected and processed data regarding the concentrations of *Alexandrium fundyense* in the Nauset Marsh and Gulf of Maine
- Collected weekly water samples from the Nauset Marsh

Operation Wallacea

Research Assistant

July – August 2007

Sulawesi, Indonesia

- Assisted research on the reef ecosystems of the Wakatobi Marine National Park
- Performed Reef Check surveys
- Monitored *Labroides dimidiatus* cleaning stations

Northeastern University

Boston, MA

Laboratory Assistant

July – December 2008

Dr. Donald O'Malley

- Maintained the lab zebrafish population and assisted in breeding of zebrafish lines to be used for neurobiology research

CenSSIS Laboratory

Lab Assistant/Python Programmer

October 2006 – April 2007

Boston, MA

- Created programs using Python to control the KECK 3D Fusion microscope

TEACHING EXPERIENCE

Texas A&M University

Teaching Assistant

September 2013 – December 2015 Corpus Christi, TX

July 2018 – June 2020

- Instruct undergraduate lab and recitation courses in:
 - Introduction to Biology I (BIOL 1406)
 - Genetics (BIOL 2416)
 - Microbiology (BIOL 2421)
 - Invertebrate Zoology (BIOL 3431)
 - Marine Ecology (BIOL 4336)
 - Statistics for Life (MATH 1442)
- Grade graduate level Statistics courses:
 - Statistical Methods in Research I (MATH 6315)
 - Statistical Methods in Research II (MATH 6316)
 - Mixed Effects Models for Scientists (MATH 6317)
 - An Introduction to Bayesian Statistics (MATH 6318)
- Design recitation activities and assignments to enhance student learning in Genetics

The Island School

Research Class Teacher

January – June 2012

Eleuthera, The Bahamas

- Design course objectives, curriculum, and syllabus for a scientific research class at a boarding high school
- Design a field experiment to be performed by students
- Perform parent-teacher and teacher-student conferences
- Designed and taught an introduction to statistics class to entire student body

Research Class Teaching Assistant

August – December 2011

Eleuthera, The Bahamas

- Assisted in the design, implementation, and analysis of a student experiment

- Facilitated classroom discussions on statistics, journal articles, and the ecology of invasive lionfish
- Created question sets for students on assigned journal articles

SERVICE ACTIVITIES

Society Memberships

- International Society for Reef Studies
- American Society of Ichthyologists and Herpetologists
- American Fisheries Society
- Texas Chapter of the American Fisheries Society
- Texas A&M University: Corpus Christi Student Subunit of the Texas Chapter of the American Fisheries Society
 - Secretary (October 2018 – May 2020)
 - Vice-President (May 2020 – Present)
- Texas A&M University – Corpus Christi: Marine Science Graduate Student Organization
 - Treasurer (September 2013 – September 2014)
- Texas A&M University – Corpus Christi: University Council of Student Organizations
 - Funding Committee (September 2016 – Present)

Greenpeace New Zealand

Database Assistant

January – June 2013

Auckland, New Zealand

- Develop new ways to check signed petitions for people already existing in our database and then import new information to existing supporters and new supporters into the database
- Ensure information in database is entered correctly
- Process weekly and monthly credit card and direct debit transactions

Speak up for Blue

Contributing blogger

December 2012 – April 2013

www.speakupforblue.com

- Publish two monthly articles raising awareness about various ocean topics

2evolve

Telefundraiser

October – December 2012

Auckland, New Zealand

- Fundraise on behalf of charities such as Amnesty International to build membership for ongoing charitable campaigns and raise awareness about ongoing global issues

National Honors Society

September 2005 – June 2006

Medway, MA

Boy Scouts of America

September 1999 – December 2006

Medway, MA

- Eagle Scout

May 2006

GRADUATE COURSEWORK

Statistics/Modelling

- Statistical Methods in Research I (MATH 6315)
- Statistical Methods in Research II (MATH 6316)
- Mixed Effects Models (MATH 6317)
- Systems Analysis (CMSS 6303)
- Introduction to Bayesian Statistics (MARB 6590)

Biology

- Marine Ecology (MARB 6436)
- Marine Ecosystem Dynamics (MARB 6590)
- Marine Genetics (MARB 6590)
- Coral Reef Systems (MARB 6301)
- Marine Plankton (MARB 6430)
- Evolutionary Genetics (MARB 6590)

* MARB 6590 is a special topics course which changes each semester

SKILLS AND QUALIFICATIONS

Certifications:

- PADI Divemaster >1500 dives logged; >900 hours
- AAUS Scientific Diver
- SSI Enriched Air Nitrox
- EMT-Basic, CPR, DAN O₂, AED, DAN Professional Diving First Aid
- REEF Caribbean Fish ID Level 4

Field and Laboratory:

- Subtidal fish and invertebrate surveys; collection of live fish, invertebrates, and corals; fish sizing; CTD rosette and niskin bottle deployment; sterile processing of water samples; soil coring
- Small boat driving
- Dissections; otolith removal; gut content analysis; DNA Extractions; PCR; fluorescent and light microscopy; fluorescent staining; KCl extraction of NH₄⁺ and NO₃⁻; microsatellites; ddRAD

Computer:

- PC; Linux; Macintosh; Microsoft Office; Python; JMP; KaleidaGraph; ImageJ; EndNote; CPCE; Bilko; Vidana; R; Zotero; BASH; QGIS; Agisoft Pro; Julia

Husbandry:

- Penguin; Elasmobranch; Sea Turtle; Teleost

Language:

- Conversational in French
-