

# Camille Pagniello

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## FACULTY APPOINTMENTS

**University of Hawai'i at Mānoa**, School of Ocean and Earth Science and Technology (SOEST), Honolulu, Hawai'i  
*Assistant Researcher & SOEST Early Career Research Fellow*, Hawai'i Institute of Marine Biology 2024 - present

## PROFESSIONAL PREPARATION

**Stanford University**, Hopkins Marine Station, Pacific Grove, California  
*Postdoctoral Fellow* advised by B. Block, Oceans Department, Stanford Doerr School of Sustainability 2021 - 2023  
Research: Marine top predators as sentinels of climate change at ecologically important scales

**Scripps Institution of Oceanography**, University of California San Diego, La Jolla, California  
*PhD*, Oceanography with Certificate of Engineering Leadership & Micro-MBA 2015 - 2021  
Thesis: "Advancing the study of fish populations in marine protected areas using passive acoustics and optical imaging" advised by J.S. Jaffe, Jaffe Laboratory for Underwater Imaging, Marine Physical Laboratory  
*MS*, Applied Ocean Science and Engineering 2015 - 2016

**Dalhousie University**, Halifax, Nova Scotia, Canada  
*BSc Honours Co-op*, Marine Biology & Physics, minors in Math & Ocean Sciences 2010 - 2015  
Thesis: "Spatial and temporal variation in water mass characteristics and the normalized zooplankton biomass size spectrum in Northumberland Strait" advised by C.T. Taggart, Fisheries Oceanography Lab, Department of Oceanography

**Sea Education Association (SEA)**, Boston University, Woods Hole, Massachusetts  
*Oceans and Climate (S-250)*, 45 days at sea from San Diego to Tahiti aboard SSV Robert C. Seamans 2013  
Thesis: "The impacts of ocean acidification on the geographic distribution, species composition and species diversity of thecosome pteropods" advised by A. Meyer, SEA Education Association

## PUBLICATIONS

Students I have mentored are underlined. \* indicates shared first authorship.

7. **Pagniello, C**, Ó Maoiléidigh, N, ..., Drumm, A, O'Neill, R, & Block, B. (2023). Tagging of Atlantic bluefin tuna off Ireland reveals use of distinct oceanographic hotspots. *Progress in Oceanography*, 209, 103135.
6. Butler, J & **Pagniello, C**. (2021). Emerging, low-cost ocean observing technologies to democratize access to the ocean. *Oceanography - Frontiers in Ocean Observing Supplement*, 34(4), 94-95.
  - Includes a living list of open-source ocean technology ([GitHub](#))
5. **Pagniello, C**, Butler, J, Rosen, A, Sherwood, A, ..., Jaffe, J & Širović, A. (2021). An optical imaging system to capture images in low-light aquatic habitats using only ambient light. *Oceanography*, 34(3), 71-77. ([GitHub](#))
  - Included in the Ocean Best Practices System by the Intergovernmental Oceanographic Commission of UNESCO, the United Nations body responsible for supporting global ocean science and services.
4. Butler, J, **Pagniello, C**, Jaffe, J, Parnell, P & Širović, A. (2021). Diel and seasonal variability in kelp forest soundscapes off the Southern California coast. *Frontiers in Marine Science*, 8: 357.
3. **Pagniello, C**, Cimino, M & Terrill, E. (2019). Mapping fish chorus distributions in Southern California using an autonomous wave glider. *Frontiers in Marine Science*, 6: 526.
2. Cavole, L, ..., **Pagniello, C**, ... & Franks, P. (2016). Biological Impacts of 2013-2015 Warm-Water Anomalies in the Northeast Pacific: Winners, Losers and the Future. *Oceanography*, 29(2), 273-285.
  - Authors listed alphabetically and contributed equally. Article written as part of Introduction to Biological Oceanography course at SIO. Only student to receive A+.
  - Highlighted in [Nature Climate Change](#).
1. Palmer, P, ..., **Pagniello, C**, ... & Young, J. (2013). Quantifying the impact of BOREal forest fires on Tropospheric oxidants over the Atlantic using Aircraft and Satellites (BORTAS) experiment: design, execution and science overview. *Atmospheric Chemistry and Physics*, 13(13), 6239-6261.

*Accepted:*

1. Oliver, R, ..., **Pagniello, C**, ..., & Zimmerman, N. Opening a conversation on responsible environmental data science in the age of generative AI. at *Environmental Data Science*.

#### Submitted and In Review:

3. Ferter, K\*, **Pagniello, C\***, ..., & Nøttestad, L. Northernmost electronic tagging of Atlantic bluefin tuna reveals distinct diving behaviors in different oceanographic provinces. in review at *Proceedings of the Royal Society B*.
2. **Pagniello, C.** & Jaffe, J. Three-dimensional localization and tracking of individual fish in a complex, shallow-water environment using *in situ* sound playbacks. in review at *Methods in Ecology and Evolution*. ([GitHub](#))
1. **Pagniello, C.**, Castleton, M, Carlisle, A, Chapple, T, Schallert, R, Fedak, M, & Block, B. Novel CTD tag establishes shark fins as ocean observing platforms in the Gulf of Alaska. in revision at *Scientific Reports*.

#### In Preparation:

8. Mikles, C., **Pagniello, C.**, Boustany, A, Schallert, R, Castleton, M & Block, B. Multiyear observations of Atlantic bluefin tuna reveal fidelity to foraging and spawning grounds. in prep for *Ecology*.
7. Andrzejczek, S, DiGiacomo, A, Mikles, C., Reimer, T & **Pagniello, C.** Illuminating the effects of the moon: ecological impacts of lunar phase on tuna, billfish, sharks, and rays. in prep for *Reviews in Fish Biology & Fisheries*.
6. Leone, M., Riemersma, D., Witting, J, Block, B & **Pagniello, C.** Mesoscale eddies influence deep scattering layers in the lee of Hawai'i. in prep for *Deep Sea Research Part I*.
5. Anderson, C., McCormick, E., Edmonds, A., ..., Micheli, F, Witting, J, Block, B & **Pagniello, C.** Revisiting the presence of inverted trophic biomass pyramids on a remote Pacific island. in prep for *Coral Reefs*.
4. Lalgudi, C., Mettias, M., Witting, J, Block, B & **Pagniello, C.** A novel machine learning approach to classify the oceanographic landscape of bathymetrically-complex, shallow-water environments: multidimensional dynamic time warping and fuzzy k-medoids clustering. in prep for *Geophysical Research Letters*.
3. **Pagniello, C.**, Hunting, E., Bennett, M., Clark, J., Witting J, & Block, B. Mesoscale eddies influence the movements of white sharks in the lee of Hawai'i. in prep for *Animal Biotelemetry*.
2. **Pagniello, C.**, Kaull, J., Kong, R. & Butler, J. KaniMoana: An open source, customizable, and low-cost underwater passive acoustic recorder. in prep for *Methods in Ecology and Evolution*. ([GitHub](#))
1. **Pagniello, C.**, Sederat, M., Butler, J & Parnell, PE. Kelp forest mapping using a low-cost "fish finder." in prep for *Methods in Ecology and Evolution*. ([GitHub](#))

#### Conference Proceedings:

1. **Pagniello, C.**, Wiggins, SM, D'Spain, GL, Hildebrand, JA, & Širović, A. (2016). Bryde's whale behavioral metrics in the Southern California Bight from acoustic array tracking. In Proceedings of Meetings on Acoustics, 27, 010014.

#### AWARDS, FELLOWSHIPS & HONORS

<b>SOEST Early Career Research Fellowship</b> , University of Hawai'i at Mānoa (\$143,000)	2023
<b>Best Postdoc Talk</b> , Stanford Data for Sustainability Conference	2023
<b>Knauss Fellowship Finalist</b> , NOAA Sea Grant (\$84,000)	<i>declined</i> 2021
<b>Ada Lovelace Fellowship</b> , Open Source Hardware Association	2021
<b>Fleet Admiral Chester W. Nimitz Fellowship</b> , Scripps Institution of Oceanography (SIO) (\$86,000)	2019 - 2021
<b>Greeneridge Sciences Fellowship in Underwater Acoustics</b> , SIO (\$4,400)	2018
<b>SIO Graduate Gordon Scholar</b> , Gordon Engineering Leadership Center at UC San Diego	2018
<b>Bell Graduate Scholarship*</b> , Natural Sciences and Engineering Research Council of Canada (\$105,000)	2016 - 2019
<b>Best Student Talk - Nearshore</b> , 4 <sup>th</sup> Annual Scripps Student Symposium	2017
<b>Regents Fellowship</b> , University of California San Diego (\$30,000)	2015
<b>First Class Honours</b> , Dalhousie University	2015
<b>Clowes Presidential Scholarship</b> , Sea Education Association (\$10,500)	2013
<b>Summer Student Fellowship</b> , Woods Hole Oceanographic Institution (\$6,240)	2013
<b>NSERC Undergraduate Student Research Award</b> , Dalhousie University (\$5,625)	2014, '15
<b>Remotely Operated Vehicle (ROV) Scholarship</b> , Marine Technology Society (\$5,000)	2014
<b>NSERC Undergraduate Student Research Award</b> , Memorial University of Newfoundland (\$5,625)	2012, '13
<b>Burgess McKittrick Prize in Physics</b> , Dalhousie University	2012
<b>Charles Bussmann Undergraduate Scholarship</b> , Marine Technology Society (\$2,500)	2011, '12
<b>Burgess McKittrick Studentship in Physics</b> , Dalhousie University (\$3,600)	2011

\* Canadian equivalent to NSF Graduate Research Fellowships Program (GRFP)

## GRANTS

† led or contributed to conception, design, writing, and/or execution, but unable to serve as PI as a student or postdoc	
<b>Bristlemouth Pioneer Program</b>	2024
Spotter + Smart Mooring + Bristlemouth DevKit (\$10,800); PI: Camille Pagniello	
<b>MAC3 Foundation†</b>	2021
White Sharks as Oceanographers (\$91,802); PIs: Barbara Block, Leif Thomas	
<b>Office of Naval Research, Task Force Ocean (TFO)†</b>	2019 - 2022
Probing the Environmental Limits to Passive Sonar; PI: Gerald D'Spain	
<b>UC Ships Funds Program, Scripps Institution of Oceanography</b>	<i>declined</i> 2019
Kelp SSPAACE: Kelp Sponge Sargassum Acoustic Abalone Cyborg Expedition (6 days at sea, \$78,000); PIs: Camille Pagniello (lead), Mohammad Sedarat, Kayla Wilson, Allison Lee Cusick, Madelin Andersen	
<b>UC Ships Funds Program, Scripps Institution of Oceanography</b>	2018
Kelp APE: Kelp Acoustic Propagation Experiment (2 days at sea, \$26,000); PI: Camille Pagniello	
<b>California Sea Grant†</b>	2016 - 2018
Deciphering The Soundscapes Of The Coastal Shelf: Using Passive Acoustics For Assessing Fish Dynamics In Southern California Kelp Forests (\$254,489); PIs: Ana Širović, Jules Jaffe, Ed Parnell	

## TEACHING APPOINTMENTS, AWARDS & PEDAGOGICAL TRAINING

### *Appointments:*

#### *Stanford University*

<b>Co-Instructor</b> , Taking the Pulse of the Ocean: Innovative Technologies for the Blue Planet	Spring '23
<b>Lecturer, Student Project Coordinator &amp; Mentor</b> , Stanford@SEA	Spring '22

#### *University of California San Diego*

<b>Instructor of Record</b> , Introduction to Biological Oceanography	Sum. '20, '21
<b>Teaching Assistant</b> , Experiences in Oceanic and Atmospheric Sciences	Fall '19, '20
<b>Guest Lecturer</b> , Perspectives on Ocean Science	Winter '19
<b>Teaching Assistant</b> , Wave Physics I – Ocean Acoustics	Win. '17 - '19

#### *Dalhousie University*

<b>Teaching Assistant</b> , Physiology of Marine Animals I & II	AY '14 - '15
<b>Teaching Assistant</b> , Principles of Biology I & II	AY '14 - '15

### *Teaching Awards:*

<b>Summer Graduate Teaching Scholar</b> , University of California San Diego (\$1,200)	Summer '20
Competitively awarded to 30 graduate students at UCSD (and only 2 at SIO) to design and teach an undergraduate course.	

### *Pedagogical Training Courses through the Engaged Teaching and Learning Commons at UC San Diego:*

<b>Introduction to College Teaching</b>	Fall '19
<b>Introduction to Course Design</b>	April '20

### *Participation in Learning Communities:*

<b>Summer Teaching Community</b> , University of California San Diego	Sum. '20, '21
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### *Committees:*

<b>SIO Educational Policy Committee</b> , Student Rep	AY '18 - '20
<b>SIO Teaching Award Review Committee</b> , Student Representative	Spring '16

## MENTORING

### *Research Mentor for Graduate Students:*

#### **Stanford University**

<i>Courtney Anderson</i> , MSc Mechanical Engineering, Stanford University (fish & inverted pyramids)	AY '23 - pres
<i>Catherine Lee Hing</i> , PhD Interdisciplinary Program in Environmental Resources, Stanford University	AY '23 - pres
<i>Sabrina Daley</i> , PhD Biology, Stanford University (shark behavior, movement & climate change)	AY '22 - pres
<i>Chloe Mikles</i> , PhD Biology, Stanford University (tuna behavior, movement & genetics)	AY '21 - pres

## **Scripps Institution of Oceanography**

<i>Mohammad Sedarat</i> , MSc Marine Biology, Scripps Institution of Oceanography (kelp mapping)	AY '18 - '21
Current Position: PhD Student in Oceanography, Scripps Institution of Oceanography	
<i>Michelle Amor</i> , MAS Marine Biodiversity and Conservation (fish bioacoustics & art)	Spring '21
<i>Adithya Balaji</i> , MS Electrical and Computer Engineering, UC San Diego (machine learning)	Fall '17
Current Position: Machine Learning Engineer at Cisco	

### *Research Mentor for Undergraduate Students:*

## **Research Experiences Especially for Freshman and Sophomores (REEFS), Stanford University**

<i>Mark Leone</i> , Mechanical Engineering, Stanford University (deep scattering layers & eddies)	Jun. '22 - pres
<i>Chinmay Lalgudi</i> , Computer Science, Stanford University (machine learning)	Summer '22
<i>Erika Hunting</i> , Electrical Engineering, Stanford University (shark behavior & movement)	Summer '22
Current Position: Material Science and Interfacial Chemistry Intern at National Renewable Energy Laboratory	

## **Gordon Engineering Leadership Center Challenge Project, Scripps Institution of Oceanography**

<i>Clare Walker</i> , Data Strategist at Quadrature (machine learning)	Spring '21
Current Position: Data Strategist at Quadrature	
<i>Eamon Patamasing</i> , Electrical Engineering, UC San Diego (fish identification)	AY '18 - '19
Current Position: RFIC Design Engineer at pSemi	
<i>Chad Mackie</i> , Bioengineering, UC San Diego (machine learning)	AY '18 - '19
Current Position: Administrative Assistant at UC San Diego - Housing • Dining • Hospitality	
<i>Gabriel Mink</i> , Ecology, Behavior and Evolution, UC San Diego (acoustic detector)	AY '18 - '19
Current Position: Data Scientist/Machine Learning Engineer at Albertsons Companies	
<i>Sarah Reynolds</i> , Marine Biology, UC San Diego (fish identification)	AY '18 - '19
Current Position: Events and Partnerships Coordinator at National School Choice Awareness Foundation	
<i>Addison Sherwood</i> , Marine Science, Jacksonville University (fish identification)	AY '17 - '20

## **Marine Physical Laboratory Summer Undergraduate Internship Program, Scripps Institution of Oceanography**

<i>Helen Cai</i> , Applied Mathematics, Yale University (machine learning)	Summer '18
Current Position: MD Student, Yale University	
<i>Kian Bagheri</i> , Environmental Engineering, San Diego State University (SDSU) (fish identification)	Summer '18
Current Position: PhD Student in Engineering Science and Applied Mechanics, SDSU & UC San Diego	
<i>Annette Brennan</i> , Marine Biology, UC Santa Cruz (fish bioacoustics)	Summer '17
Current Position: Judicial Law Clerk, Alaska Court System	
<i>Annie Rosen</i> , Civil & Environmental Engineering, UC Berkeley (camera system)	Summer '17
Current Position: PhD Student in Civil and Environmental Engineering, Stanford University	
<i>Nicolas Jeffress</i> , Mechanic Engineering, Rice University (acoustic detector)	Summer '17
Current Position: PhD Student in Marine Science & Conservation, Duke University	

## **California Cooperative Oceanic Fisheries Investigations Hackathon (4 students; data visualization)** March '21

## **BELONGING, ACCESSIBILITY, JUSTICE, EQUITY, DIVERSITY & INCLUSION (BAJEDI)**

### *Leadership and Committee Participation:*

<b>Stanford Doer School of Sustainability DEI Advisory Council</b> , Postdoctoral Fellow Representative	AY '22 - '23
<b>Stanford Doer School of Sustainability DEI Liaisons Program</b> , Oceans Department Postdoc Liaison	AY '22 - '23
<b>SIO Advancing Faculty Diversity Faculty Hiring</b> , Student Search Committee Member	Spring '21
<b>Unlearning Racism in Geoscience (URGE)</b> , POD Leader at Scripps Institution of Oceanography	AY '20 - '21
<b>SIO International Student Orientation</b> , Creator, Lead Organizer and Coordinator	AY '18 - '20

### *BAJEDI Panels, Roundtables & Workshops:*

<b>Environmental Data Science (EDS) Summit - Harnessing Diversity in EDS</b> , Selected Participant	February '23
<b>Taking Action for DEI in California's Ocean Sciences Roundtable</b> , Selected Participant	January '22
<b>Women Leadership in Marine Technology, Engineering, and Science</b> , Invited Moderator	Sept. '21
<b>Pathways to Graduate Studies in Marine Science and Oceanography</b> , Panelist	October '20

### *Peer & Classroom Mentor:*

<b>Mentoring Physical Oceanography Women to Increase Retention (MPOWIR)</b> , Participant	AY '21 - pres
<b>Científico Latino Graduate Student Mentorship Initiative (GSMI)</b> (1 undergraduate student)	AY '21 - '22
<b>Ocean Discovery Institute</b> , Classroom Mentor	Spring '21
<b>NSF Geo-Futures Mentorship Program at SACNAS Conference</b> (2 undergraduate students)	October '20
<b>Girls in STEAM Conference at The Preuss School UCSD</b> , Classroom Mentor	Sept. '19
<b>SIO Peer Mentor Leadership Committee</b> , Chair and AOS Student Representative	AY '18 - '19
<b>SIO Peer Mentor</b> (2 PhD students)	AY '17 - '19

### *Internship Project Sponsor & Mentor:*

<b>Power of NeuroGaming (PONG) Summer Internship Program for Neurodiverse Students</b>	Summer '20
<i>T. Rummani</i> (Designer), <i>K. Moran</i> (Tester), <i>E. Sweeten</i> (Artist), <i>J. Vu</i> (Programmer) & <i>J. Gagliano</i> (Project Manager)	
Game Concept: <a href="#">Journey to the Kelp Forest</a> - 2D side-scroller that navigates the protagonist Plainfin Midshipman across different environments just outside of La Jolla Cove	

## **SEMINARS, PRESENTATIONS, PANELS & WORKSHOP PARTICIPATION**

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### *Invited Presentations & Seminars:*

<b>Harnessing Data and Tech for Ocean Health and Sustainability Conference</b>	November '22
Low-cost, open-source, DIY ocean observing technologies to democratize access to the ocean	
<b>Hopkins Marine Station, Stanford University</b>	November '22
Innovative, Interdisciplinary Tools to Study Marine Animals in Our Changing Ocean	
<b>San Diego MPA Collaborative</b>	July '21
New passive acoustic and optical imaging tools to study the distribution and behavior of sound-producing fish in marine protected areas	
<b>Bigelow Laboratory for Ocean Sciences</b>	July '21
New passive acoustic and optical imaging tools to study the distribution and behavior of sound-producing fish in marine protected areas	
<b>Dalhousie University</b> , Department of Oceanography	January '21
Using a passive acoustic-optical imaging system to monitor fish presence and behaviour in marine protected areas	
<b>Scripps Institution of Oceanography</b> , Applied Ocean Sciences Seminar Series	June '20
Searching for the FishOASIS: Using passive acoustics and optical imaging to identify a chorusing species of fish	
<b>Scripps Institution of Oceanography</b> , Student Fellowship Brunch	March '19
Sights and sounds of the Southern California kelp forest	
<b>California Marine Protected Area Technology Workshop</b>	May '18
Passive acoustic monitoring of marine protected areas	

### *Contributed Conference Presentations:*

14. **Pagniello, C**, Ó Maoiléidigh, N, Maxwell, H, ..., Stokesbury, M, Drumm, A, O'Neil, R, & Block, B. (2023). Tagging of Atlantic Bluefin Tuna off Ireland Reveals Use of Distinct Oceanographic Hotspots. 73<sup>rd</sup> Tuna Conference.
13. **Pagniello, C**, & Block, B. (2023). Sharks as Oceanographers: Measuring Oceanographic Features from a Salmon Shark Instrumented with a CTD Tag. Stanford Doerr School of Sustainability Research Review.
12. **Pagniello, C**, & Block, B. (2023). Sharks as Oceanographers: Measuring Oceanographic Features from a Salmon Shark Instrumented with a CTD Tag. Stanford Data for Sustainability Conference.
11. **Pagniello, C**, & Jaffe, J. (2022). Passive Acoustic Localization and Tracking of Individual Fish in a Complex Shallow-Water Environment Near the Boundary of a Marine Protected Area. 2022 Ocean Sciences Meeting.
10. **Pagniello, C**, Butler, J, ..., Jaffe, J, Parnell, E, & Širović, A. (2020). Using a passive acoustic-optical imaging system to monitor fish presence and behavior in marine protected areas. 2020 Ocean Sciences Meeting.
9. **Pagniello, C**, & D'Spain, G. (2019). Localization and tracking of fish sounds with a 4-element underwater passive acoustic array. 178<sup>th</sup> Meeting of the Acoustical Society of America.
8. D'Spain, G, **Pagniello, C**, & Rowell, T. (2018) Some comments on acoustic sensing at a single point in space. 176<sup>th</sup> Meeting of the Acoustical Society of America.
7. **Pagniello, C**, Butler, J, ..., Parnell, E, & Širović, A. (2018). Searching for the FishOASIS: Using passive acoustics and optical imaging to identify a chorusing species of fish. 176<sup>th</sup> Meeting of the Acoustical Society of America.

6. Butler, J, **Pagniello, C**, Parnell, E, Jaffe, J, & Širović, A. (2017). Sights and Sounds of the Kelp Forest: Exploration of Fish Community Dynamics Through Acoustic and Photographic Datasets. 2018 Ocean Sciences Meeting.
5. **Pagniello, C**, Butler, J, ..., & Širović, A. (2017). Soundscape fishing: spatial variability in a low-frequency fish chorus in the southern California kelp forest. 174<sup>th</sup> Meeting of the Acoustical Society of America.
4. **Pagniello, C**, Butler, J, Rosen, A, Brennan, A, Roberts, P, Jaffe, J, Parnell, E, & Širović, A. (2017). Trials and tribulations of a “fishy” field season. 4<sup>th</sup> Annual Scripps Student Symposium.
3. Cavole, L, ..., **Pagniello, C**, ..., & Franks, P. (2017). Biological Impacts of 2013-2015 Warm-Water Anomalies in the Northeast Pacific: Winners, Losers and the Future. Eastern Pacific Ocean Conference 2017.
2. D’Spain, G, & **Pagniello, C**. (2015). Some aspects of signal and array processing with small aperture underwater acoustic arrays. 170<sup>th</sup> Meeting of the Acoustical Society of America.
1. **Pagniello, C**., Lawson, G, & Lavery, A. (2013). Identifying the nature of a strong pervasive acoustic scattering layer in the northeast Pacific. Woods Hole Oceanographic Institution Summer Student Fellow Research Symposium.

*Contributed Conference Posters:*

6. **Pagniello, C**, Castleton, M, Carlisle, A, Chapple, T, ..., Fedak, M, & Block, B. (2024). Novel CTD tag establishes shark fins as ocean observing platforms in the Gulf of Alaska. 8<sup>th</sup> International Bio-Logging Science Symposium.
5. Wilson, A, **Pagniello, C**, Greenbaum, J, Auzenne, ..., & Yao, P. (2021). URGE at Scripps Institution of Oceanography - Accomplishments, Challenges, and Future Plans. American Geophysical Union Fall Meeting.
4. **Pagniello, C**, D’Spain G, Jaffe, J, & Hildebrand, J. (2019) Quantitative metrics of performance for different localization algorithms. OCEANS ‘19 MTS/IEEE Marseille, France.
3. **Pagniello, C**, Butler, J, Rosen, A, Roberts, P, Jaffe, J, Parnell, E, & Širović, A. (2017). A Fish Optical and Acoustic Sensor Identification System (FishOASIS). 2018 Ocean Sciences Meeting.
2. **Pagniello, C**, ..., Hildebrand, J, & Širović, A. (2016). Bryde’s Whale Behavioral Metrics in the Southern California Bight from Acoustic Array Tracking. Fourth International Conference on the Effects of Noise on Aquatic Life.
1. **Pagniello, C**, & Taggart, C. (2015). Biomass size spectrum analysis in the Northumberland Strait. 29<sup>th</sup> Annual Cameron Conference for Biology and Marine Biology Honours Student Research.

*Academic Panels:*

<b>AGU and Next Steps for the UN Decade of Ocean Science for Sustainable Development</b> American Geophysical Union Fall Meeting	Dec. ‘21
<b>Changes in Science</b> Scripps Institution of Oceanography/UC San Diego Half Century Retrospective Symposium	May ‘19
<b>MPA Monitoring Tools by Land and Sea</b> California Marine Protected Area Technology Workshop	May ‘18

*Invited Workshop Participation:*

<b>Ecosystem Services Observation Network (ESON)</b> , Exploring Technologies to Monitor Coastal Ecosystem Health in California	February ‘22
<b>ESON</b> , Ecosystem Unknowns and Societal Monitoring Needs in the California Current	June ‘21
<b>Smart Oceans</b> , an NSF virtual conference on the Future of Oceans	October ‘20

## SERVICE

*Conference Organization:*

<b>2022 Ocean Sciences Meeting (OSM)</b> , Session Chair for “Connecting ocean science, conservation and management needs and solutions through emerging technologies and approaches	February ‘22
<b>2020 OSM</b> , Session Chair for “New technologies and methods in fisheries science”	February ‘20
<b>178<sup>th</sup> Acoustical Society of America</b> , Local Organizing Committee	Fall ‘19
<b>Scripps Student Symposium</b> , Website Designer and On-Site Coordinator	Summer ‘18
<b>2018 &amp; 2020 OSM</b> , Student Representative for The Oceanography Society on Program Committee Organizer of Non-Academic Career Panels as well as Student and Early Career Conference Session Reviewer for Marine Ecology & Biodiversity; Ocean Observatories, Instrumentation & Sensing Technologies	AY ‘16 - ‘20
<b>OCEANS ‘14 MTS/IEEE</b> , Marine Environmental Observation Prediction and Response Network (MEOPAR) Student Activities and Booth Coordinator	Fall ‘14



<b>OCEANS '15 MTS/IEEE</b> , Local Organizing Committee and Student Activities Chair	AY '13 - '15
<b>MATE ROV Competition</b> , Ocean Career Expo Coordinator	Summer '13
<i>Academic Service at Stanford University:</i>	
<b>Stanford Doerr School of Sustainability Postdoc Advisory Committee to the Dean</b> , Co-Chair	AY '22 - '23
<b>Hopkins Marine Station Faculty Meetings</b> , Postdoc Representative	AY '22 - '23
<b>Hopkins Marine Station Weekly Seminar</b> , Lead Organizer	Winter '22
<i>Academic Service at Scripps Institution of Oceanography (SIO):</i>	
<b>SIO Biological Oceanography Faculty Hiring</b> , Student Search Committee Member	October '20
<b>SIO Oceans &amp; Atmosphere Section Researcher Hiring</b> , Student Search Committee Chair	October '19
<b>SIO/ECE Signal Processing Faculty Hiring</b> , Student Search Committee Chair	May '19
<b>SIO Graduate Student Council</b> , AOS Curricular Group Student Rep	AY '18 - '19
<b>SIO Academic External Review</b> , Student Committee Chair	Nov. '17
<b>SIO Ocean Acoustics Faculty Hiring</b> , Student Search Committee Chair	October '17
<b>SIO Applied Ocean Sciences Weekly Seminar</b> , Lead Organizer	AY '16 - '17
<b>SIO Graduate Student Council</b> , Founder & Senior Co-Chair	AY '16 - '18
<i>Student and Early Career Representative for Professional Societies:</i>	
<b>Acoustical Society of America</b> , Animal Bioacoustics Substitute Student Rep	Fall '17
<b>Marine Technology Society</b>	
Vice Chair, Early Career Ocean Professionals Section	AY '20 - '22
Student Rep to the Council	AY '12 - '14
At-Large Student Representative	Fall '11
<i>Guest Editor:</i>	
DIY Oceanography Section of <i>Oceanography</i>	Jun. '23 - pres
<i>Journal Reviewer:</i>	
Animal Biotelemetry, Journal of the Acoustical Society of America, ICES Journal of Marine Science, Lighting Research & Technology, PLOS One	
<b>SCIENCE COMMUNICATION</b>	
<i>Outreach and Community Engagement:</i>	
<b>Sea Lion National Ocean Science Bowl</b> , Science Judge	February '22
<b>Stanford Doerr School of Sustainability Community Day</b> , ROV Demonstration	October '21
<b>Birch Aquarium</b> , Exhibit Content Contributor	AY '18 - '21
<b>#KelpForestFridays</b> , Twitter and Instagram Outreach Campaign	July '20 - '21
<b>Walter Munk Foundation for the Oceans</b> , Volunteer	AY '19 - '21
<b>Garibaldi National Ocean Science Bowl</b> , Science Judge	Feb. '16, '17
<b>Scripps Committee for Humanity and Public Service (CHiPS)</b> , Volunteer	AY '15 - '21
<i>Panels:</i>	
<b>Rising Stars in Oceanography Panel</b>	January '21
AltaSea at the Port of Los Angeles	
<b>Impact of Philanthropy on Student Education and Research at SIO Panel</b>	March '19, '20
Student Fellowship Brunch, Scripps Institution of Oceanography	
<i>Media Coverage:</i>	
<a href="#">"Scripps Student Spotlight: Camille Pagniello"</a> , Scripps Institution of Oceanography	December '20
<a href="#">"The Sound of (Fish) Music"</a> , oceanbites	September '19
<a href="#">"Research Highlight: Monitoring Ocean Health Using Fish Sounds"</a> , Scripps Institution of Oceanography	December '18
<a href="#">"Could fish sounds help scientists monitor ocean health?"</a> , California Sea Grant	December '18
<a href="#">"Combining underwater photography and passive acoustics to monitor fish"</a> , Acoustical Society of America	November '18
<a href="#">"Listening to Fish: How Sound May Help Us Identify and Study Life Underwater"</a> , Environmental Monitor	April '18
<a href="#">"Listening for Fish Conversations in the Kelp Forest"</a> , Birch Aquarium Blog	March '18
<a href="#">"What Sounds Does a Fish Make? Scripps Scientist Wants to Know"</a> , KPBS	March '18

## PROFESSIONAL TRAINING, SKILLS, CERTIFICATIONS & FIELDWORK

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### *Training:*

<b>2020 Ocean Sciences Meeting</b> , Student and Early Career Conference Online Footprint & Science Communication Proposal Writing: Navigating Federal Opportunities and Language Scientific Publishing: From First Time Submitters to Improving Writing Skills	February '20
<b>2018 Ocean Sciences Meeting</b> , Student and Early Career Conference Getting Started with Data Management Grant Writing for Students and Early Career Professionals Science Communication Workshop by Brian Palermo	February '18

### *Computer Skills:*

**Languages:** MATLAB (expert), R (expert), Python (intermediate), HTML (intermediate), Bash (expert)

**Operating Systems:** Windows, Mac, UNIX

**Software:** Adobe Lightroom, Ocean Data View, Raven, ArcGIS

### *Language Skills:*

**Fluent:** French, English

### *Scientific Diving Certifications:*

<b>Divers Alert Network (DAN) Diving First Aid for Professional Divers</b>	April '23
<b>American Academy of Underwater Sciences (AAUS) Scientific Diver</b> , SIO (60 ft; over 100 dives)	August '17

### *Small Vessel Operator Certifications:*

<b>Motorboat Operator Training Course</b> , Scripps Institution of Oceanography	October '18
<b>California Boater Card</b>	October '18

### *Research Cruises with Leadership Roles (total: 13 cruises, 122 days):*

<b>Lecturer, Student Project Coordinator &amp; Mentor</b> , Stanford@SEA, SSV Robert C. Seamans (37 days)	May - Jun. '22
<b>CTD Operator</b> , Novel Undersea Geological & Geophysical Learning Expedition, R/V Sally Ride (9 days)	January '20
<b>Researcher &amp; Diver</b> , Biological Soundscape Observation Reef Test, R/V Walton Smith (10 days)	April '19
<b>Chief Scientist</b> , Kelp Acoustic Propagation Experiment (2 cruises), R/V Robert Gordon Sproul (2 days)	Aug., Sep. '18
<b>Marine Mammal Observer &amp; Acoustician</b> , Science Verification (3 cruises), R/V Sally Ride (9 days)	in '16 & '17