

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 Professor of Oceanographic Engineering, Department of Ocean and Resources Engineering 2025 - present
Assistant Researcher & SOEST Early Career Research Fellow, Hawai'i Institute of Marine Biology 2024 - 2025

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.

11. Andrzejczek, S, DiGiacomo, A, Mikles, C, **Pagniello, C**, Reimer, T, & Block, B. (2024). Lunar cycle effects on pelagic predators and fisheries: insights into tuna, billfish, sharks, and rays. *Reviews in Fish Biology & Fisheries*.
10. Ferter, K*, **Pagniello, C***, ... (2024). Northernmost electronic tagging of Atlantic bluefin tuna reveals distinct diving behaviors in different oceanographic provinces. *Proceedings of the Royal Society B*, 291: 20241501.
9. **Pagniello, C**, Castleton, M, Carlisle, A, Chapple, T, Schallert, R, Fedak, M, & Block, B. (2024). Novel CTD tag establishes shark fins as ocean observing platforms in the Gulf of Alaska. *Scientific Reports*, 14, 13837.
8. Oliver, R, ..., **Pagniello, C**, ..., & Zimmerman, N. (2024). Opening a conversation on responsible environmental data science in the age of generative AI. *Environmental Data Science*, 3, e14.
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.
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.

Submitted and In Review:

2. Pavlov, V, Polly, D, **Pagniello, C**, ..., & Block, B. Phenotypic Variation and the Cost of Locomotion in Cetaceans: A New Framework for Bioenergetic Assessments. submitted to *Nature*.
1. Henry, L-A, ..., **Pagniello, C**, ..., & Roberts, J. Mesoscale eddies in the subpolar North Atlantic: their ecological importance and conservation significance. submitted to *Progress in Oceanography*.

In Preparation:

8. **Pagniello, C** & Jaffe, J. Three-dimensional localization and tracking of individual fish in a complex, shallow-water environment using *in situ* sound playbacks. in prep for *Methods in Ecology and Evolution*. ([GitHub](#))
7. 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 *Ecological Monographs*.
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

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

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

NSERC Undergraduate Student Research Award , Memorial University of Newfoundland (\$5,625)	2012, '13
Burgess McKittrick Prize in Physics , Dalhousie University	2012
Charles Bussmann Undergraduate Scholarship , Marine Technology Society (\$2,500)	2011, '12
Burgess McKittrick Studentship in Physics , Dalhousie University (\$3,600)	2011

GRANTS

† led or contributed to conception, design, writing, and/or execution, but unable to serve as PI as a student or postdoc	
UH Strategic Investment	2024 - 2026
Coastal Health Collective (\$399,944); PI: A. Kealoha, Co-PI: N. Hawco, E. Nalley, C. Nelson & C. Pagniello	
Bristlemouth Pioneer Program	2024
Spotter + Smart Mooring + Bristlemouth DevKit (\$10,800); PI: C. Pagniello	
MAC3 Foundation†	2021
White Sharks as Oceanographers (\$91,802); PIs: B. Block, L. Thomas	
Office of Naval Research, Task Force Ocean (TFO)†	2019 - 2022
Probing the Environmental Limits to Passive Sonar; PI: G. D'Spain	
UC Ships Funds Program, Scripps Institution of Oceanography	<i>declined</i> 2019
Kelp SSPAACE: Kelp Sponge Sargassum Acoustic Abalone Cyborg Expedition (6 days at sea, \$78,000); PIs: C. Pagniello (lead), M. Sedarat, K. Wilson, A. Cusick, M. Andersen	
UC Ships Funds Program, Scripps Institution of Oceanography	2018
Kelp APE: Kelp Acoustic Propagation Experiment (2 days at sea, \$26,000); PI: C. Pagniello	
California Sea Grant†	2016 - 2018
Deciphering The Soundscapes Of The Coastal Shelf: Using Passive Acoustics For Assessing Fish Dynamics In Southern California Kelp Forests (\$254,489); PIs: A. Širović, J. Jaffe, E. Parnell	

TEACHING APPOINTMENTS, AWARDS & PEDAGOGICAL TRAINING

Appointments:

<i>University of Hawai'i at Mānoa</i>	
Instructor , Ocean Instrumentation and Technology	Spring '25
<i>Stanford University</i>	
Co-Instructor , Taking the Pulse of the Ocean: Innovative Technologies for the Blue Planet	Spring '23
Lecturer, Student Project Coordinator & Mentor , Stanford@SEA	Spring '22
<i>University of California San Diego</i>	
Instructor of Record , Introduction to Biological Oceanography	Sum '20, '21
Teaching Assistant , Experiences in Oceanic and Atmospheric Sciences	Fall '19, '20
Guest Lecturer , Perspectives on Ocean Science	Winter '19
Teaching Assistant , Wave Physics I – Ocean Acoustics	Win '17 - '19
<i>Dalhousie University</i>	
Teaching Assistant , Physiology of Marine Animals I & II	AY '14 - '15
Teaching Assistant , Principles of Biology I & II	AY '14 - '15

Teaching Awards:

Summer Graduate Teaching Scholar , 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:

Introduction to College Teaching	Fall '19
Introduction to Course Design	Apr '20

Participation in Learning Communities:

Summer Teaching Community , University of California San Diego	Sum '20, '21
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Committees:

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

MENTORING

Research Mentor for Graduate Students:

Stanford University

<i>Courtney Anderson</i> , MSc Mechanical Engineering, Stanford University (fish & inverted pyramids) Current Position: Project Engineer, Scripps Institution of Oceanography	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>Océane Boulais</i> , PhD Student in Oceanography, Scripps Institution of Oceanography (bioacoustics)	AY '24 - pres
<i>Mohammad Sedarat</i> , MSc Marine Biology, Scripps Institution of Oceanography (kelp mapping) Current Position: PhD Student in Oceanography, Scripps Institution of Oceanography	AY '18 - '21
<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) Current Position: Machine Learning Engineer at Cisco	Fall '17

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) Current Position: Material Science and Interfacial Chemistry Intern at National Renewable Energy Laboratory	Summer '22

Gordon Engineering Leadership Center Challenge Project, Scripps Institution of Oceanography

<i>Clare Walker</i> , Data Strategist at Quadrature (machine learning) Current Position: Data Strategist at Quadrature	Spring '21
<i>Eamon Patamasing</i> , Electrical Engineering, UC San Diego (fish identification) Current Position: RFIC Design Engineer at pSemi	AY '18 - '19
<i>Chad Mackie</i> , Bioengineering, UC San Diego (machine learning) Current Position: Administrative Assistant at UC San Diego - Housing • Dining • Hospitality	AY '18 - '19
<i>Gabriel Mink</i> , Ecology, Behavior and Evolution, UC San Diego (acoustic detector) Current Position: Data Scientist/Machine Learning Engineer at Albertsons Companies	AY '18 - '19
<i>Sarah Reynolds</i> , Marine Biology, UC San Diego (fish identification) Current Position: Events and Partnerships Coordinator at National School Choice Awareness Foundation	AY '18 - '19
<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) Current Position: MD Student, Yale University	Summer '18
<i>Kian Bagheri</i> , Environmental Engineering, San Diego State University (SDSU) (fish identification) Current Position: PhD Student in Engineering Science and Applied Mechanics, SDSU & UC San Diego	Summer '18
<i>Annette Brennan</i> , Marine Biology, UC Santa Cruz (fish bioacoustics) Current Position: Judicial Law Clerk, Alaska Court System	Summer '17
<i>Annie Rosen</i> , Civil & Environmental Engineering, UC Berkeley (camera system) Current Position: PhD Student in Civil and Environmental Engineering, Stanford University	Summer '17
<i>Nicolas Jeffress</i> , Mechanic Engineering, Rice University (acoustic detector) Current Position: PhD Student in Marine Science & Conservation, Duke University	Summer '17

California Cooperative Oceanic Fisheries Investigations Hackathon (4 students; data visualization)

Mar '21

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

Leadership and Committee Participation:

Stanford Doer School of Sustainability DEI Advisory Council , Postdoctoral Fellow Representative	AY '22 - '23
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Stanford Doer School of Sustainability DEI Liaisons Program , Oceans Department Postdoc Liaison	AY '22 - '23
SIO Advancing Faculty Diversity Faculty Hiring , Student Search Committee Member	Spring '21
Unlearning Racism in Geoscience (URGE) , POD Leader at Scripps Institution of Oceanography	AY '20 - '21
SIO International Student Orientation , Creator, Lead Organizer and Coordinator	AY '18 - '20
<i>BAJEDI Panels, Roundtables & Workshops:</i>	
Environmental Data Science (EDS) Summit - Harnessing Diversity in EDS , Selected Participant	Feb '23
Taking Action for DEI in California's Ocean Sciences Roundtable , Selected Participant	Jan '22
Women Leadership in Marine Technology, Engineering, and Science , Invited Moderator	Sep '21
Pathways to Graduate Studies in Marine Science and Oceanography , Panelist	Oct '20
<i>Peer & Classroom Mentor:</i>	
Mentoring Physical Oceanography Women to Increase Retention (MPOWIR) , Participant	AY '21 - pres
Científico Latino Graduate Student Mentorship Initiative (GSMI) (1 undergraduate student)	AY '21 - '22
Ocean Discovery Institute , Classroom Mentor	Spring '21
NSF Geo-Futures Mentorship Program at SACNAS Conference (2 undergraduate students)	Oct '20
Girls in STEAM Conference at The Preuss School UCSD , Classroom Mentor	Sep '19
SIO Peer Mentor Leadership Committee , Chair and AOS Student Representative	AY '18 - '19
SIO Peer Mentor (2 PhD students)	AY '17 - '19
<i>Internship Project Sponsor & Mentor:</i>	
Power of NeuroGaming (PONG) Summer Internship Program for Neurodiverse Students	Summer '20
<i>T. Rummani (Designer), K. Moran (Tester), E. Sweeten (Artist), J. Vu (Programmer) & J. Gagliano (Project Manager)</i>	
Game Concept: Journey to the Kelp Forest - 2D side-scroller that navigates the protagonist Plainfin Midshipman across different environments just outside of La Jolla Cove	

SEMINARS, PRESENTATIONS, PANELS & WORKSHOP PARTICIPATION

Invited Presentations & Seminars:

University of Hawai'i at Mānoa , Department of Ocean and Resources Engineering Seminar Series	Apr '24
Innovative, Interdisciplinary Tools to Study Marine Animals in Our Changing Ocean	
University of Hawai'i at Mānoa , Marine Biology Graduate Program Seminar Series	Jan '24
Innovative, Interdisciplinary Tools to Study Marine Animals in Our Changing Ocean	
Harnessing Data and Tech for Ocean Health and Sustainability Conference	Nov '22
Low-cost, open-source, DIY ocean observing technologies to democratize access to the ocean	
Hopkins Marine Station, Stanford University	Nov '22
Innovative, Interdisciplinary Tools to Study Marine Animals in Our Changing Ocean	
San Diego MPA Collaborative	Jul '21
New passive acoustic and optical imaging tools to study the distribution and behavior of sound-producing fish in marine protected areas	
Bigelow Laboratory for Ocean Sciences , Summer Intern Seminar Series	Jul '21
New passive acoustic and optical imaging tools to study the distribution and behavior of sound-producing fish in marine protected areas	
Dalhousie University , Department of Oceanography Seminar Series	Jan '21
Using a passive acoustic-optical imaging system to monitor fish presence and behaviour in marine protected areas	
Scripps Institution of Oceanography , Applied Ocean Sciences Seminar Series	Jun '20
Searching for the FishOASIS: Using passive acoustics and optical imaging to identify a chorusing species of fish	
Scripps Institution of Oceanography , Student Fellowship Brunch	Mar '19
Sights and sounds of the Southern California kelp forest	
California Marine Protected Area Technology Workshop	May '18
Passive acoustic monitoring of marine protected areas	

Contributed Conference Presentations:

- Pagniello, C, ..., & Nøttestad, L. (2024).** Bluefin tuna tagged off Norway show extensive annual migrations, high site-fidelity and dynamic behaviour in the Atlantic & Mediterranean Sea. 154th American Fisheries Society Meeting.
- Pagniello, C, Ferter, K, ..., & Nøttestad, L. (2024).** Atlantic bluefin tuna tagged off Norway show extensive annual migrations, high site-fidelity and dynamic behaviour in the Atlantic & Mediterranean Sea. 74th Tuna Conference.

15. **Pagniello, C**, Castleton, M, Carlisle, A, Chapple, T, Schallert, R, Fedak, M, & Block, B. (2024). Novel CTD tag establishes shark fins as ocean observing platforms. 8th International Bio-Logging Science Symposium.
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. 73rd 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. 178th 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. 176th 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. 176th 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. 174th 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. 4th 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. 170th 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:

8. **Pagniello, C**, ..., & Block, B. (2024). Novel CTD tag establishes shark fins as ocean observing platforms in the Gulf of Alaska. US CLIVAR Optimizing Ocean Observing Networks for Detecting the Coastal Climate Signal Workshop.
7. **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. 154th American Fisheries Society Meeting.
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. 8th 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. 29th Annual Cameron Conference for Biology and Marine Biology Honours Student Research.

Academic Panels:

AGU and Next Steps for the UN Decade of Ocean Science for Sustainable Development

Dec ‘21

American Geophysical Union Fall Meeting

Changes in Science

May ‘19

Pagniello, Camille

MPA Monitoring Tools by Land and Sea

May '18

California Marine Protected Area Technology Workshop

Invited Workshop Participation:

US CLIVAR, Optimizing Ocean Observing Networks for Detecting the Coastal Climate Signal Workshop Sep '24

Ecosystem Services Observation Network (ESON), Exploring Technologies to Monitor Coastal Ecosystem Health in California Feb '22

ESON, Ecosystem Unknowns and Societal Monitoring Needs in the California Current Jun '21

Smart Oceans, an NSF virtual conference on the Future of Oceans Oct '20

SERVICE

Conference Organization:

US CLIVAR Optimizing Ocean Observing Networks for Detecting the Coastal Climate Signal Workshop, Sep '24
Discussion Leader for Breakout Sessions

74th Tuna Conference, Session Moderator for "Session Moderator for "Putting it all together to improve assessment and management" May '24

2022 Ocean Sciences Meeting (OSM), Session Chair for "Connecting ocean science, conservation and management needs and solutions through emerging technologies and approaches Feb '22

2020 OSM, Session Chair for "New technologies and methods in fisheries science" Feb '20

178th Acoustical Society of America, Local Organizing Committee Fall '19

Scripps Student Symposium, Website Designer and On-Site Coordinator Summer '18

2018 & 2020 OSM, Student Representative for The Oceanography Society on Program Committee AY '16 - '20

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

OCEANS '14 MTS/IEEE, Marine Environmental Observation Prediction and Response Network (MEOPAR) Student Activities and Booth Coordinator Fall '14

OCEANS '15 MTS/IEEE, Local Organizing Committee and Student Activities Chair AY '13 - '15

MATE ROV Competition, Ocean Career Expo Coordinator Summer '13

Academic Service at Stanford University:

Stanford Doerr School of Sustainability Postdoc Advisory Committee to the Dean, Co-Chair AY '22 - '23

Hopkins Marine Station Faculty Meetings, Postdoc Representative AY '22 - '23

Hopkins Marine Station Weekly Seminar, Lead Organizer Winter '22

Academic Service at Scripps Institution of Oceanography (SIO):

SIO Biological Oceanography Faculty Hiring, Student Search Committee Member Oct '20

SIO Oceans & Atmosphere Section Researcher Hiring, Student Search Committee Chair Oct '19

SIO/ECE Signal Processing Faculty Hiring, Student Search Committee Chair May '19

SIO Graduate Student Council, AOS Curricular Group Student Rep AY '18 - '19

SIO Academic External Review, Student Committee Chair Nov '17

SIO Ocean Acoustics Faculty Hiring, Student Search Committee Chair Oct '17

SIO Applied Ocean Sciences Weekly Seminar, Lead Organizer AY '16 - '17

SIO Graduate Student Council, Founder & Senior Co-Chair AY '16 - '18

Student and Early Career Representative for Professional Societies:

Acoustical Society of America, Animal Bioacoustics Substitute Student Rep Fall '17

Marine Technology Society

Vice Chair, Early Career Ocean Professionals Section AY '20 - '22

Student Rep to the Council AY '12 - '14

At-Large Student Representative Fall '11

Guest Editor:

DIY Oceanography Section of *Oceanography* Jun '23 - pres

Journal Reviewer:

SCIENCE COMMUNICATION

Outreach and Community Engagement:

Sea Lion National Ocean Science Bowl , Science Judge	Feb '22
Stanford Doerr School of Sustainability Community Day , ROV Demonstration	Oct '21
Birch Aquarium , Exhibit Content Contributor	AY '18 - '21
#KelpForestFridays , Twitter and Instagram Outreach Campaign	Jul '20 - '21
Walter Munk Foundation for the Oceans , Volunteer	AY '19 - '21
Garibaldi National Ocean Science Bowl , Science Judge	Feb '16, '17
Scripps Committee for Humanity and Public Service (CHiPS) , Volunteer	AY '15 - '21

Panels:

Rising Stars in Oceanography Panel AltaSea at the Port of Los Angeles	Jan '21
Impact of Philanthropy on Student Education and Research at SIO Panel Student Fellowship Brunch, Scripps Institution of Oceanography	Mar '19, '20

Media Coverage:

“Scholars trailblazing Earth, ocean sciences earn early career fellowships” , University of Hawai'i News	Jan '24
“Scripps Student Spotlight: Camille Pagniello” , Scripps Institution of Oceanography	Dec '20
“The Sound of (Fish) Music” , oceanbites	Sep '19
“Research Highlight: Monitoring Ocean Health Using Fish Sounds” , Scripps Institution of Oceanography	Dec '18
“Could fish sounds help scientists monitor ocean health?” , California Sea Grant	Dec '18
“Combining underwater photography and passive acoustics to monitor fish” , Acoustical Society of America	Nov '18
“Listening to Fish: How Sound May Help Us Identify and Study Life Underwater” , Environmental Monitor	Apr '18
“Listening for Fish Conversations in the Kelp Forest” , Birch Aquarium Blog	Mar '18
“What Sounds Does a Fish Make? Scripps Scientist Wants to Know” , KPBS	Mar '18

PROFESSIONAL TRAINING, SKILLS, CERTIFICATIONS & FIELDWORK

Training:

2020 Ocean Sciences Meeting , 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	Feb '20
2018 Ocean Sciences Meeting , Student and Early Career Conference Getting Started with Data Management Grant Writing for Students and Early Career Professionals Science Communication Workshop by Brian Palermo	Feb '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:

Divers Alert Network (DAN) Diving First Aid for Professional Divers	Apr '23
American Academy of Underwater Sciences (AAUS) Scientific Diver , SIO (60 ft; over 100 dives)	Aug '17

Small Vessel Operator Certifications:

Motorboat Operator Training Course , Scripps Institution of Oceanography	Oct '18
California Boater Card	Oct '18

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

Lecturer, Student Project Coordinator & Mentor , Stanford@SEA, SSV Robert C. Seamans (37 days)	May - Jun '22
CTD Operator , Novel Undersea Geological & Geophysical Learning Expedition, R/V Sally Ride (9 days)	Jan '20

Researcher & Diver , Biological Soundscape Observation Reef Test, R/V Walton Smith (10 days)	Apr '19
Chief Scientist , Kelp Acoustic Propagation Experiment (2 cruises), R/V Robert Gordon Sproul (2 days)	Aug, Sep '18
Marine Mammal Observer & Acoustician , Science Verification (3 cruises), R/V Sally Ride (9 days)	in '16 & '17