**Heidi C. Pearson**

Curriculum Vitae

University of Alaska Southeast

11066 Auke Lake Way, Juneau, AK, 99801

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**CURRENT POSITION**

2023- Professor of Marine Biology, Department of Natural Sciences, School of Arts and Sciences, University of Alaska Southeast (UAS)

2013- Collaborating Faculty, Department of Fisheries, College of Fisheries and Ocean Sciences, University of Alaska Fairbanks (UAF)

**EDUCATION**

2008 Ph.D., Texas A&M University, Wildlife and Fisheries Sciences

Dissertation: “Fission-fusion sociality in dusky dolphins (*Lagenorhynchus obscurus*), with comparisons to other dolphins and great apes”

Advisor: Dr. Bernd Würsig

1998 B.S., Duke University, Double Major in Biological Anthropology and Anatomy, and Biology

Graduation with Distinction, Certificate in Primatology

**PREVIOUS CAREER APPOINTMENTS**

2017-23 Associate Professor of Marine Biology, Department of Natural Sciences, UAS

2011-17 Assistant Professor of Marine Biology, Department of Natural Sciences, UAS

2010-11 Lecturer, School of Marine and Atmospheric Sciences, Stony Brook University

2009 Adjunct Professor, Department of Biology, Northeastern University

2008-09 Assistant Director and Stranding Coordinator, Whale Center of New England

2008 Adjunct Professor, Department of Marine Biology, Texas A&M University at Galveston

**HONORS AND AWARDS**

2024 UAS Faculty Excellence Award for Research and Creative Activity

2022-23 Invited member of COMPASS to engage with federal policymakers on blue carbon

Science; Washington, DC

2018 Fulbright Scholar, Norway; United Nations Environment Programme/GRID-Arendal

2018 Fulbright Inter-country Lecturing Program, University of Iceland

2018 Invent Alaska Competition Winner

2015- National Geographic Explorer

2015 UAS Faculty Excellence Award for Research

2014 Visiting Scientist, University of Sydney

2012 UAS Academic Innovation Award

**ACADEMIC PUBLICATIONS**

Fourteen (14) first-author publications and 39 co-author publications for a total of 53 peer-reviewed journal publications and book chapters. § student advisee.

2025 Patton PT, ….., **Pearson HC**, ……. Bejder L. Evaluating tradeoffs between automation

and bias in population assessments relying on photo-identification. Conservation

Biology e14436. 10.1111/cobi.14436

2024 Duvall ES, le Roux E, **Pearson HC**, Roman J, Malhi Y, Abraham AJ. Resisting the

carbonization of animals as climate solutions. Nature Climate Change 14:892–895.

2024 Piwetz S, **Pearson HC**, Honkus-Smith K, Würsig B. Decline in dusky dolphin

(*Lagenorhynchus obscurus*) habitat use in Admiralty Bay, New Zealand. New Zealand

Journal of Marine and Freshwater Research 1-23.

2024 Cheeseman T, …., **Pearson H**, …Clapham P. Bellwethers of change: population

modeling of North Pacific humpback whales from 2002 through 2021 reveals shift

from recovery to climate response. Royal Society Open Science 11: 231462.

2024 Castro J,§ Cid A, Quirin A, Matos F, Rosa R, **Pearson HC**. Assessing the dynamics of

common dolphin (*Delphinis delphis*) mother-calf pairs along the south coast of Portugal

using unmanned aerial vehicles Marine Mammal Science 40:e13115.

2023 Atkinson DeMaster S, Melica V, Mashburn K, Teerlink S, Moran J, **Pearson H**. Use of

hormones in assessing reproductive physiology of humpback whales (*Megaptera*

*noveangliae*) from Juneau, Alaska. Theriogenology Wild: Special Issue on Endocrine

Biomarkers. 3: 100050.

2023 Patton PT, ….., **Pearson HC**, ….., Bejder L. A deep learning approach to animal

recognition demonstrates high performance on two dozen cetacean species. Methods in

Ecology and Evolution 14: 2611-2625.

2023 Cheeseman T, …..**Pearson H**, ….. Clapham, P. A collaborative and near-

comprehensive North Pacific humpback whale photo-ID dataset. Scientific Reports 13:

10237.

2023 Wild LA, Riley HE, **Pearson HC**, Gabriele CM, Neilson JL, Szabo A, Moran JR,

Straley JM, DeLand S. Biologically Important Areas II for cetaceans in

US Waters – Gulf of Alaska region. Frontiers in Marine Science 10:11340.

2023 LaRoche N,§ King SL,§ Eckert GL, Fergusson E, **Pearson HC.** Macronutrient

composition of sea otter diet with respect to recolonization, life history, and season in

southern Southeast Alaska. Ecology and Evolution 13: e10042.

2023 **Pearson HC**, Savoca MS, Costa DP, Lomas MW, Molina R, Pershing AJ, Smith CR,

Villaseñor-Derbez JC, Wing SR, Roman, J. Whales in the carbon cycle: can recovery

remove carbon dioxide? Trends in Ecology and Evolution 38: 238-249.

Correction: Trends in Ecology and Evolution 39: P785

2022 Castro J,§ Faustino C, Cid A, Quirin A, Matos F, Rosa R, **Pearson HC**. Common

dolphin (*Delphinus delphis*) fission-fusion dynamics in the South coast of Portugal. Behavioral Ecology and Sociobiology 76:128.

2021 Rhodes-Reese M,§ Clay D, Cunningham C, Miller J, Reese C, Roman J, Warren J,

**Pearson HC**. Examining the role of marine mammals and seabirds in Southeast Alaska’s marine nutrient cycle. Frontiers in Marine Science 8:1-12.

2021 LaRoche NL,§ King SL,§ Eckert GL, Rogers MC, **Pearson HC.** Behavioral observations and stable isotopes reveal high individual variation and little seasonal variation in sea otter diets in Southeast Alaska. Marine Ecology Progress Series 677: 219-232.

2021 Wright T, Davis R, **Pearson H**, Murray M, Sheffield-Moore M. Skeletal muscle

thermogenesis enables aquatic life in the smallest marine mammal. Science 373: 223-225.

2021 Martin A, **Pearson H**, Saba G, Olsen EM. Integral functions of marine vertebrates in the ocean carbon cycle and climate change mitigation. One Earth 4: 680-693.

2021 **Pearson HC**,Davis RW. Reproductive behaviour of male sea otters. Pp. 107-123 in: Davis R, Pagano A, eds. Ethology and Behavioral Ecology of Sea Otters and Polar Bears. Book 4 in: Würsig B, series ed. Ethology and Behavioral Ecology of Marine Mammals. New York: Springer. (Invited submission).

2021 Castro J,§ Borges FO, Cid A, Laborde MI, Rosa R, **Pearson HC**. Assessing the behavioural responses of small cetaceans to unmanned aerial vehicles. Remote Sensing 13:156.

2020 Castro J,§ Couto A, Bordes FO, Cid A, Laborde MI, **Pearson HC**, Rosa RU. Oceanographic determinants of the abundance of common dolphins (*Delphinus delphis*) in the south of Portugal. Oceans1:165-173.

2019 Brown KL,§ Atkinson S, Keller KB, **Pearson HC**. Diet of northern sea otters (*Enhydra lutris kenyoni*) from Icy Strait, Alaska based on stomach contents analysis. Marine Mammal Science35:637-640.

2019 **Pearson HC**. Dusky dolphins of continental shelves and deep canyons. Pp. 387-411 in: Würsig B, ed. Ethology and Behavioral Ecology of Toothed Whales and Dolphins, the Odontocetes. Book 1 in: Würsig B, series ed. Ethology and Behavioral Ecology of Marine Mammals. New York: Springer. (Invited submission).

2019 **Pearson HC,** Jones PW, Brandon TP,§ Stockin KA, Machovsky-Capuska GE. A biologging perspective to the drivers that shape gregariousness in dusky dolphins. Behavioral Ecology and Sociobiology 73:155.

2019 Schuler AR,§ **Pearson HC**. Conservation benefits of whale-watching in Juneau, AK. Tourism in Marine Environments 14:231-248.

2019 Schuler AR,§ Piwetz S, Steckler D, Di Clemente J,§ **Pearson HC**. Humpback whale movement and behavior in response to whale watching vessels in Juneau, AK. Frontiers in Marine Science 6:710.

2018 DiClemente J,§ Christiansen F, Pirotta E, Steckler D, Wahlberg M, **Pearson HC**. Effects of whale watching on the activity budgets of humpback whales (*Megaptera* *novaeangliae*, Borowski 1781) on a feeding ground. Aquatic Conservation: Marine and Freshwater Ecosystems 28:810-820.

2018 Orbach DN, **Pearson HC**, Beier-Engelhaupt A, Deutsch S, Srinivasan M, Weir JS, Yin S, Würsig B. Long-term assessment of spatio-temporal association patterns of dusky dolphins (*Lagenorhynchus obscurus*) off Kaikoura, New Zealand. Aquatic Mammals44:608-619. (Invited submission).

2017 Lopez G,§ **Pearson HC**. Can whale watching be a conduit for spreading

educational and conservation messages? A case study in Juneau, Alaska. Tourism in Marine Environments 12:95-104.

2017 **Pearson HC**. Unraveling the function of dolphin leaps using the dusky dolphin

(*Lagenorhynchus obscurus*) as a model species.Behaviour 154:563-581.

2017 **Pearson HC,** Jones P, Srinivasan M, Lundquist D, Pearson CJ, Machovsky-Capuska GE. Testing and deployment of C-VISS (Cetacean-borne Video camera and Integrated Sensor System) on wild dolphins. Marine Biology164:42.

2017 **Pearson HC,** Markowitz TM, Weir JS, Würsig B. Dusky dolphin (*Lagenorhynchus obscurus*) social structure characterized by social fluidity and preferred companions. Marine Mammal Science33:251-276.

2015 New LF, Hall AJ, Harcourt R, Kaufman G, Parsons ECM, **Pearson HC**, Cosentino M, Schick RS. The modelling and assessment of whale-watching impacts. Ocean and Coastal Management115:10-16.

2015 Würsig B, **Pearson HC**. Dolphin societies: structure and function. Pp. 72-106 in: Herzing DL, Johnson CM,eds. Dolphin Communication & Cognition: Past, Present, Future. Cambridge: MIT Press. (Invited submission).

2014 Deutsch S, **Pearson HC**, Würsig B. Development of leaps in dusky dolphin (*Lagenorhynchus obscurus*) calves. Behaviour 151:1555-1577.

2014 Pakpour AH, Zeidi I, Emamjomeh MM, Asefzadeh S, **Pearson H**. Household waste behaviours among a community sample in Iran: an application of the Theory of Planned Behaviour. Waste Management 34:980-986.

2014 Würsig B, **Pearson HC**. Dusky dolphins: flexibility in foraging and social

strategies. Pp. 25-42 in: Yamagiwa, J, Karczmarski L, eds. Primates and

Cetaceans: Field Research and Conservation of Complex Mammalian Societies. New York: Springer. (Invited submission).

2012**Pearson HC**, Dawson LN, Radecki Breitkopf C. Recycling attitudes and behavior among low-income Hispanics in southeast Texas. PLOS ONE 7:e34469.

2012 **Pearson HC**, Vaughn-Hirschorn RL, Srinivasan M, Würsig B. Avoidance of mussel farms by dusky dolphins (*Lagenorhynchus obscurus*) in New Zealand. New Zealand Journal of Marine and Freshwater Research 46:567-574.

2012 Srinivasan M, **Pearson HC**, Vaughn-Hirshorn RL, WürsigB, Murtugudde R. Using climate downscaling to hypothesize impacts on apex predator marine ecosystem dynamics. New Zealand Journal of Marine and Freshwater Research46:575-584.

2011 **Pearson HC**. Sociability of female bottlenose dolphins (*Tursiops* spp.) and chimpanzees (*Pan troglodytes*): understanding evolutionary pathways toward social convergence. Evolutionary Anthropology20:85-95. (Invited submission).

2010 Finerty SE, **Pearson HC**, Davis RW. Interannual assessment of territory quality for male sea otters (*Enhydra lutri*s) in Simpson Bay, Prince William Sound, Alaska. Canadian Journal of Zoology88:289-298.

2010 **Pearson HC**, Shelton DE. A large-brained social animal. Pp. 333-353 in: Würsig B, Würsig M, eds. The Dusky Dolphin: Master Acrobat off Different Shores*.* San Diego, CA: Academic Press. (Invited submission).

2010 Weir J, Deutsch S, **Pearson HC**. Calf-rearing: dangers and opportunities. Pp. 177-209 in: Würsig B, Würsig M, eds. The Dusky Dolphin: Master Acrobat off Different Shores*.* San Diego: Academic Press. (Invited submission).

2009 **Pearson HC**. Influences on dusky dolphin (*Lagenorhynchus obscurus*) fission-fusion dynamics in Admiralty Bay, New Zealand. Behavioral Ecology and Sociobiology 63:1437-1446.

2009 Radecki Breitkopf C, **Pearson HC**. A theory-based approach to understanding follow-up of abnormal Papanicolaou tests. Journal of Health Psychology14:361-371.

2009 Radecki Breitkopf C, **Pearson HC**, Dinh TA, Bich-Chieu T, Tran BS, Vu T, Bao Phan GA, Ngo QV, Tran VD, Rosenthal SL. Human Papillomavirus vaccine decision making in Da Nang, Vietnam: anticipated spousal and adolescent-parent concordance. Vaccine27:2367-2371.

2007 Gilkinson AK, **Pearson HC**, Weltz F, Davis RW. Photo-identification of sea otters using nose scars. Journal of Wildlife Management 71:2045-2051.

2007 Kornblau IS, **Pearson HC**, Radecki Breitkopf C. Demographic, behavioral, and physical correlates of body esteem among low-income female adolescents. Journal of Adolescent Health 41:566-570.

2007 Navarro Rubio R, **Pearson HC**, Clark AA, Radecki Breitkopf C. Satisfaction with care among low-income female outpatients. Psychology, Health, and Medicine 12:334-345.

2006 **Pearson HC**, Packard JM, Davis RW. Territory quality of male sea otters in

Prince William Sound, Alaska: relation to body and territory maintenance behaviors. Canadian Journal of Zoology 84:939-946.

2006 Slomovitz BM, Sun CC, Frumovitz M, Soliman PT, Schmeler KM, **Pearson HC**, Berenson A, Ramirez PT, Lu KH. Are women ready for the HPV vaccine? Gynecologic Oncology 103:151-154.

2005 **Pearson HC**, Davis RW. Behavior of territorial male sea otters in Prince William Sound, Alaska. Aquatic Mammals 31:226-233.

2005 Radecki Breitkopf C, **Pearson HC**, Breitkopf DM. Poor knowledge regarding the Pap test among low-income women undergoing annual screening. Perspectives in Sexual and Reproductive Health37:78-84.

1999 Kanga EM, **Mennenga** (Pearson’s maiden name) **HC**. Survey of the Angolan

black-and-white colobus monkey, *Colobus angolensis palliatus*, in the Diani Forests,

Kenya. African Primates 4:50-54.

**RESEARCH GRANTS AND CONTRACTS**

A total of $2,526,108 in funds awarded.

2025 Inter-American Tropical Tuna Commission. Close-kin mark recapture to assess

population abundance of dolphins in the Eastern Tropical Pacific Ocean: sampling

feasibility (Phase 1). Principal Investigator. $60,000.

2025 National Geographic Exploration Technology Lab. Taking a deep dive into

understanding the subsurface behavior and movement patterns of humpback whales in

a heavily trafficked area. Principal Investigator. $9,900.

2024-25 City and Borough of Juneau. Juneau Whale HEALTH (Humpbacks, Ecosystems, And

Long-Term Histories). Principal Investigator. $160,000.

2024-25 Encounter Foundation. Increasing knowledge of dusky dolphin behavioral ecology

through methodological advancements in photo-identification and suction-cup tagging

Principal Investigator. $16,778.

2024-25 Animal Welfare Institute. Testing the whale pump in Southeast Alaska. Principal

Investigator. $30,000.

2023-25 Inter-American Tropical Tuna Commission. Scientific experiment to evaluate dolphin

cow-calf separation during purse seine fishing operations in the Eastern Tropical

Pacific Ocean. Principal Investigator. $718,000.

2023  National Institutes of Health (NIH)-BLaST. Advancement of undergraduate One

Health training and research through marine animal telemetry (equipment grant). Principal Investigator. $11,300.

2022-24 National Oceanic and Atmospheric Association (NOAA)/Pacific States Marine

Fisheries Commission. Assessment of humpback whale health and residenc patterns with respect to varied tourism levels in Juneau, Alaska. Principal Investigator. $169,980.

2021-24 Whale and Dolphin Conservation Germany. Testing the whale pump hypothesis in

Southeast Alaska. Principal Investigator. $63,857.

2022 Whale and Dolphin Conservation. Assessing the potential for whale recovery as a

natural climate solution. Principal Investigator. $8,200.

2020-22 National Oceanic and Atmospheric Association (NOAA)/Pacific States Marine

Fisheries Commission. Establishing baseline measurements for humpback whales

in Juneau, AK. Principal Investigator. $196,672.

2018-21 NIH-BLaST. Innovations in biologger technology to assess ocean health. Principal

Investigator. $59,882.

2018-19 Rasmuson Foundation. Creation of a UAS seawater laboratory to support student

learning and research innovation in Southeast Alaska. Principal Investigator. $24,907.

2018 Fulbright Inter-Country Travel Grant. Seminar presented to Department of

Environment and Natural Resources at the University of Iceland. $450

2018 Fulbright Scholar to Norway. Connecting two Arctic regions through blue carbon

science, communication, and policy. $17,000

2017-18 NIH-BLaST. Advancement of undergraduate training and research in One Health

through seawater analysis (equipment grant). Principal Investigator. $54,018.

2016-22 National Science Foundation (NSF). Coastal SEES Collaborative Research: Apex

predators, ecosystems and community sustainability (APECS) in coastal Alaska.

Principal Investigator. $479,116 (Collaborative total $1,103,440).

2016-18 Alaska Sea Grant. Whale-watching in Juneau, AK: assessing potential effects on

humpback whales and understanding the passenger experience. Principal Investigator.

$113,671.

2016-17 NIH-BLaST. One Health Research Laboratory Renovation Project – Anderson 316.

Co-principal Investigator. $81,000.

2016 NIH-INBRE. Connecting human, ocean, and marine mammal health through research-

based experiential learning. Principal Investigator. $14,945.

2015-16 NIH-BLaST. The contribution of kelp forests to ecosystem and subsistence health in

Southeast Alaska. Principal Investigator. $59,209.

2015 National Geographic Society. Development and testing of the “Dolphin Cam”: a short-

term video camera attachment system for dusky dolphins. Principal Investigator.

$14,800.

2015 NOAA-Alaska Center for Climate Assessment and Policy. Blue carbon: the role of

marine predators in carbon storage and sequestration. Principal Investigator. $9,350.

2015 University of Alaska Foundation Angus Gavin Migratory Bird Research Grant. The

role of avian predators in nutrient transport in a glacially fed Southeast Alaska

estuarine ecosystem. Principal Investigator. $13,172.

2014-15 Encounter Foundation. Development and testing of the “Dolphin Cam”: a short-term

video camera attachment system for dusky dolphins. Principal Investigator. $15,190.

2013-15 Alaska NASA EPSCoR. Development of a tagging method for dusky dolphins to

understand the effects of climate, ecosystem, and anthropogenic changes. Principal

Investigator. $34,707.

2013-14 NSF-EPSCoR. Understanding the effects of bottom-up forces on top predators in a

glacially-fed estuarine ecosystem in Southeast Alaska. Principal Investigator. $30,000.

2009-10 John H. Prescott Marine Mammal Rescue Assistance Grant Program-NOAA. Marine

mammal strandings on Massachusetts' North Shore: enhancement of response, data

quality, public education, and outreach. Co-investigator. $60,004.

**INTERNAL TRAVEL GRANTS**

A total of $20,748 in travel funds awarded to support professional development.

2024 United Academics Travel Funds. Dusky dolphin field research off Kaikōura, New

Zealand. $2,475.

2024 Evelyn Rhoads Wilson Endowment Fund. Presentation at the 53rd Pacific Islands

Forum Leaders Meeting, Nuku’alofa, Tonga. $1,500.

2024 United Academics Travel Funds. Collaborative research with UAF and NOAA

Hawaiian Islands Humpback Whale National Marine Sanctuary. $2,500.

2022 Evelyn Rhoads Wilson Endowment Fund. Presentation at IMPAC5 (5th International

Marine Protected Areas Conference), Vancouver, Canada. $1,500.

2022 United Academics Travel Funds. Collaborative research with AIMM, Albufeira,

Portugal. $982.

2019 Evelyn Rhoads Wilson Endowment Fund. Presentation at the World Marine Mammal

Conference, Barcelona, Spain. $500.

2019 United Academics Travel Funds. Presentation at the World Marine Mammal

Conference, Barcelona, Spain. $1,291.

2018 United Academics Travel Funds. Collaborative research with the Ionian Dolphin

Project, Tethys Research Institute, Vonitsa, Greece. $1,500.

2016 Evelyn Rhoads Wilson Endowment Fund. Presentation at the Joint Meeting of the

International Primatological Society and the American Society of Primatologists,

Chicago, IL. $1,500.

2014 Evelyn Rhoads Wilson Endowment Fund. Presentation at the International Marine

Conservation Congress, Glasgow, Scotland. $1,500.

2013 Evelyn Rhoads Wilson Endowment Fund. Presentation at the 20th Biennial Conference

on the Biology of Marine Mammals, Dunedin, New Zealand. $1,500.

2012 Evelyn Rhoads Wilson Endowment Fund. Support of student presentation at the

American Cetacean Society 13th International Conference, San Diego, CA. $1,500.

2011 Evelyn Rhoads Wilson Endowment Fund. Presentation at the 19th Biennial Conference

on the Biology of Marine Mammals, Tampa, FL. $1,500.

**POSTDOCTORAL FELLOWS, GRADUATE STUDENTS, AND HONORS STUDENTS**

Four (4) Ph.D. students advised, of which one (1) is as committee co-chair and three (3) were as committee member; eight (8) M.S. (M.Sc.) students advised, of which three (3) were as committee chair, one (1) is as committee co-chair, two (2) were as committee member, and two (2) were as external supervisor; and three (3) undergraduate honors students advised. Total theses/dissertations advised: 15. One (1) postdoctoral fellow advised.

Ph.D. Students

1. Jessie Hoffman, enrolled. Physiology of compromised and

uncompromised humpback whales (*Megaptera novaeangliae*) in the

North Pacific. Committee member, UAF.

2. Monica Brandhuber, 2023. Investigating novel biomarkers for

monitoring reproduction in polar bears. Committee member, UAF.

3. Joana Castro, 2022. Social organization and behaviour among large

brained mammals: Maternal strategies as an evolution factor.

Committee co-chair, University of Lisbon.

4. Mithriel MacKay, 2015. Occurrence patterns and social behaviors of

humpback whales (*Megaptera novaeangliae*) wintering off Puerto Rico,

USA. Committee member, Texas A&M University at Galveston.

M.S. Students

1. Gabrielle Lopez, enrolled. Oceanographic determinants of humpback whale habitat use. Committee chair, UAF.

2. Dana Bloch, 2024. Testing the whale pump hypothesis in Southeast Alaska. Committee co-chair, UAF.

3. Nicole LaRoche, 2020. Sea otter diet composition with respect to

recolonization, life history, and season in southern Southeast Alaska.

Committee chair, UAF.

4. Kristin Brown, 2020. Diet composition and fate of contaminants in

subsistence harvested northern sea otters (*Enhydra lutris kenyoni*) from

Icy Strait, Alaska. Committee member, UAF.

5. Alicia Schuler, 2019. Whale-watching in Juneau, AK: Assessing

potential effects on humpback whales and understanding the passenger

experience. Committee chair, UAF.

6. Bárbara Cartagena da Silva Matos, 2016. Do sea otters forage

according to prey’s nutritional value? External supervisor and Fulbright Program sponsor, University of Aveiro.

7. Jacopo Di Clemente, 2016. Behavioural responses of humpback

whales (*Megaptera novaeangliae*) to whale watching activities in

Juneau waters, Alaska. Committee member, University of Southern

Denmark.

8. Coralie Delorme, 2015. Foraging ecology of sea otters in Sitka

Sound. External supervisor, Jean-Monnet University.

Postdoctoral Fellows

1. Thomas Bell, 2016-18. Remote sensing of surface canopy kelp in

Southeast Alaska. Advisor, UAS.

Honors Students

1. Rayne Billings, 2023. Caring for killer whales: multispecies obligations

in Wildlife Conservation. Thesis advisor, UAS.

2. Trinity Johnson, 2022. The effect of the COVID-19 anthropause on

humpback whale residency in Southeastern Alaska. Thesis advisor,

University of Kentucky.

3. Adrian Fanucci-Kiss, 2015. Mother knows best: ecological factors

shaping maternal sociality in dusky dolphins (*Lagenorhynchus*

*obscurus*). Thesis advisor, Harvard University.

**TEACHING EXPERIENCE**

2011- University of Alaska Southeast

1. Communicating Science (Upper-division undergraduate)

2. Comparative Vertebrate Socioecology (Upper-division undergraduate)

3. Discussions in Marine Mammalogy (Upper-division undergraduate)

4. Fundamentals of Biology I (Lower-division undergraduate)

5. Human Anatomy and Physiology I (Lower-division undergraduate)

6. Human Anatomy and Physiology II (Lower-division undergraduate)

7. Introduction to Marine Biology (Lower-division undergraduate)

8. Marine Mammalogy (Upper-division undergraduate lecture)

9. Marine Ornithology and Herpetology (Upper-division undergraduate)

10. Marine Vertebrate Field Research and Conservation (Upper-division

undergraduate field course in Portugal)

11. Tropical Marine and Coastal Ecology (Upper-division undergraduate

field course in Puerto Rico)

2010-11 Stony Brook University

1. Biological Conservation and Environmental Mindfulness (Lower-

division undergraduate)

2. Biology and Conservation of Marine Birds and Sea Turtles (Upper-

division undergraduate)

3. Ecosystem Ecology and the Global Environment (Upper-division

undergraduate)

4. Marine Mammal Field Research Methods (Upper-division

undergraduate)

5. Prospects for Planet Earth (Lower-division undergraduate)

2009 Northeastern University

1. Ecology (Lower-division undergraduate)

2. Marine Birds and Mammals (Upper-division undergraduate)

2008 Texas A&M University at Galveston

1. Introductory Biology I (Lower-division undergraduate)

**FIELD RESEARCH EXPERIENCE**

Seventeen (17) field studies conducted in eight (8) countries on four (4) continents since 1995.

2023- Scientific experiment to evaluate dolphin cow-calf separation during purse seine fishing operations in the Eastern Tropical Pacific Ocean; collaboration with AIMM (Associação para a Investigação do Meio Marinho/Marine Environment Research Association).

2020- Juneau Whale HEALTH (Humpbacks, Ecosystems, And Long-Term Histories): Establishing baseline measurements of humpback whales near Juneau, Alaska; collaboration with NOAA and UAF.

2018 Testing a non-invasive camera tag on bottlenose dolphins (*Tursiops truncatus*) in the Ambracian Gulf, Greece; collaboration with the Tethys Institute.

2017-18 Ecology of surface canopy kelp around Prince of Wales Island, Alaska; collaboration with UAF.

2015- Behavior and ecology of common dolphins (*Delphinus delphis*) off the Algarve,Portugal; collaboration with AIMM.

2014 Behavior and ecology of striped dolphins (*Stenella coeruleoalba*) in the Gulf of Corinth, Greece; collaboration with Dolphin Biology and Conservation.

2013- Behavioral ecology of humpback whales near Juneau, Alaska.

2013-16 Development and testing of a non-invasive camera tag on dusky dolphins off Kaikoura, New Zealand; collaboration with Massey University and the University of Sydney.

2010-11 Humpback whale (*Megaptera novaeangliae*) mother-calf strategies off Maui, Hawaii; collaboration with the Keiki Koholā Project.

2008-09 Behavior, ecology, and conservation of baleen whales off Massachusetts.

2006 Behavioral ecology of savanna chimpanzees (*Pan troglodytes verus*) near Fongoli, Senegal; collaboration with Iowa State University.

2004-06 Abundance, habitat use, socioecology, and conservation of dusky dolphins (*Lagenorhynchus* *obscurus*) in the Marlborough Sounds, New Zealand.

2002-03 Territorial male sea otter (*Enhydra lutris*) behavior in Simpson Bay, Prince William Sound, Alaska.

1999 Population abundance and behavior of Indo-Pacific bottlenose (*Tursiops aduncus*) and humpback (*Sousa chinensis*) dolphins off Kizimkazi, Zanzibar; collaboration with the University of Stockholm.

1997-98 Conciliatory behavior in red-fronted brown lemurs (*Eulemur fulvus rufus*); Duke Primate Center.

1997 Survey of Angolan black-and-white colobus monkeys (*Colobus angolensis* *palliatus*) near Diani, Kenya; collaboration with the National Museums of Kenya.

1995-96 Female dominance in ring-tailed (*Lemur catta*) and black-and-white ruffed lemurs (*Varecia variegata*); Duke Primate Center.

**UNIVERSITY/DEPARTMENTAL COMMITTEES AND LEADERSHIP**

2022-24 Joint UAS-UAF Master’s in Marine Policy Implementation Committee

2022-23 Tenure-track Assistant Professor of Phycology Search Committee

2020-24 Program Coordinator for B.A./B.S. Biology, B.S. Marine Biology, B.S. Fisheries

and Ocean Sciences

2020-24 Fisheries, Seafood, and Maritime Initiative Research, Enhancement, and Management Working Group

2020-22 UAS Sustainability Committee Chair

2020 Faculty Evaluation Committee

2017-18 Program Coordinator for B.A./B.S. Biology, B.S. Marine Biology

2017-18 Associate of Science Institutional Review Committee

2013-18 UAS Sustainability Committee

2017 Assistant Professor of Science Search Committee

2015-17 Undergraduate Curriculum Committee

2015 Learning Center Advisory Committee

2015 Term Assistant Professor in Fisheries Search Committee

2014-18 University of Alaska General Education Requirements Alignment Task Force

2014-16 American Bald Eagle Internship Program Selection Committee

2014 Term Assistant Professor in Chemistry Search Committee

**INVITED LECTURES**

Twenty-eight (28) invited lectures, of which four (4) were for an international audience.

2024 The role of whales in creating healthy marine ecosystems. Part of the congressional briefing, “Coast-to-coast strategies for saving America’s whales and marine life: addressing climate change impacts”, held in coordination with the House Sustainable Energy and Environmental Coalition’s Nature and Oceans Task Force.

2023 Humpback whales in the time of Covid-19: examining their response to changes in vessel traffic. Sitka Whalefest.

2023 Can whale recovery help to store and sequester carbon? Oceans of Hope, The Whale, Andenes, Norway; on-line.

2022 Can recovery of marine mammal populations remove CO2? COMPASS science communication program and DC roundtable for congressional staffers, “Elevating the science of blue carbon in federal decision making”.

2022 Humpback whales and tourism in Juneau, AK: establishing baseline measures during the COVID 19 pandemic; co-presented with Shannon Atkinson; College of Fisheries and Ocean Sciences, University of Alaska Fairbanks, Juneau, AK.

2022 The importance of whale poo to nutrient and carbon cycling. Virtual ‘Gear-Up’ Workshop for Marine Naturalists - Bottoms Up: The Power of Whale Poo, presented by The Whale Museum (WA); on-line.

2022 The Ecological Roles of Whales. 2022 Whale Watch Naturalist Symposium, presented by Whale and Dolphin Conservation, Center for Coastal Studies, and Whale Watch Dolphin Fleet (MA); on-line

2022 Humpback Whales and Tourism in Juneau – What Can We Learn from the COVID-19 Pandemic? Wildlife Wednesday, Presented by the Alaska Wildlife Alliance, Juneau, AK; on-line.

2021 Humpback whales and tourism in Juneau: What might we learn from the COVID-19 pandemic? Evening at Egan lecture series, University of Alaska Southeast, Juneau, AK; on-line.

2021 Humpback whales and tourism in Juneau, Alaska. What can we learn from the COVID-19 pandemic? AIMM (Portugal), on-line.

2020 Humpback whales and tourism in Juneau: What might we learn from the COVID-19 pandemic? Juneau Chamber of Commerce, Juneau, AK; on-line.

2020 Humpback whales and tourism in Juneau: What can we learn from the COVID-19 pandemic? Rotary Club of Juneau, Juneau, AK; on-line.

2019 Making science matter: communicating the science of blue carbon. Evening at Egan lecture series, University of Alaska Southeast, Juneau, AK.

2018 Connecting two Arctic regions through blue carbon science, communication, and policy. Norwegian Polar Institute and Akvaplan-niva, Tromsø, Norway. December 13.

2018 Connecting Arctic regions through blue carbon science, communication, and policy. Seminar, Faculty of Life and Environmental Sciences, University of Iceland, Reykjavík, Iceland.

2017 Blue carbon: the role of marine mammals and seabirds in carbon storage and sequestration. College of Fisheries and Ocean Sciences, University of Alaska Fairbanks, Juneau, AK.

2017 Assessing the costs and benefits of whale watching in Juneau, AK. Rotary Club of Juneau, Juneau, AK.

2016 Blue carbon: how can marine mammals help to combat climate change? Evening at Egan lecture series, University of Alaska Southeast, Juneau, AK.

2016 Blue carbon: how can marine mammals help to combat climate change? Wildlife Wednesday, Presented by the Alaska Wildlife Alliance, Juneau, AK.

2016 Making a splash: humpbacks and dolphins. Fireside Lecture Series, Mendenhall Glacier Visitor Center, Juneau, AK.

2015 Whales and our sustainable future. Juneau Marine Naturalist Symposium, University of Alaska Southeast, Juneau, AK.

2014 Blue carbon: the role of marine mammals and seabirds in carbon storage and sequestration. Alaska Coastal Rainforest Center Brown Bag Lecture Series, Juneau, AK.

2013 *Anatomia Italiana*: the history of anatomy, medicine, and art in Medieval and Renaissance Italy. Evening at Egan lecture series, University of Alaska Southeast, Juneau, AK.

2013 Who’s who? On the trail of marine mammals in the Pacific using photo-identification. Juneau Marine Naturalist Symposium, University of Alaska Southeast, Juneau, AK.

2012 Costly kids? Examining female behavior to test the social intelligence hypothesis in cetaceans. School of Fisheries and Ocean Sciences, University of Alaska Fairbanks, Juneau, AK.

2010 Tracking North Atlantic whales. School of Marine and Atmospheric Sciences Public Lecture Series, Stony Brook Southampton, Southampton, NY.

2010 Lord of the dolphins: the social lives of dusky dolphins in New Zealand. Biology

and Physics Department, Kennesaw State University, Kennesaw, GA.

2009 Fission-fusion dynamics in dusky dolphins (*Lagenorhynchus obscurus*). Department of Human Evolutionary Biology, Harvard University, Cambridge, MA.

**CONFERENCE PRESENTATIONS**

Seventeen (17) first-author oral presentations and 26 co-author oral presentations for a total of 43, of which 27 were at an international venue. Five (5) first-author and 22 co-author poster presentations for a total of 27 of which 14 were at an international venue. Total oral and poster presentations: 70. § student advisee, \* post-doc

2024 Atkinson DeMaster S, Melica V, Teerlink S, Moran J, DeMaster D, Mashburn K, **Pearson H**. Surviving with change: pregnancy, calving and annual population growth rates of humpback whales in Alaska. Oral presentation, 25th Biennial Conference on the Biology of Marine Mammals, Perth, Australia.

2024 Cheeseman T, …, **Pearson H**, …, Clapham P. Bellwethers of change: population modeling of North Pacific humpback whales from 2002 through 2021 reveals shift from recovery to climate response. Oral presentation, 25th Biennial Conference on the Biology of Marine Mammals, Perth, Australia.

2024 Hoffman J§, Atkinson DeMaster S, **Pearson H**, Pack A, West K, Lammers M, Lyman E. Quantifying stress hormones of compromised humpback whales (*Megaptera novaeangliae*) between breeding and feeding grounds in the North Pacific, 2013 – 2024. Oral presentation, 25th Biennial Conference on the Biology of Marine Mammals, Perth, Australia.

2024 Lopez G§, **Pearson H**. Environmental drivers of Juneau’s whales: Understanding Southeast Alaska’s biogeography by comparing oceanographic variables with humpback whale (*Megaptera novaeangliae*) sightings. Poster presentation, 25th Biennial Conference on the Biology of Marine Mammals, Perth, Australia.

2024 Patton P, …, **Pearson H**, …, Bejder L. Evaluating tradeoffs between automation and

bias in population assessments relying on photo-identification. Oral presentation, 25th

Biennial Conference on the Biology of Marine Mammals, Perth, Australia.

2024 **Pearson H**, Atkinson DeMaster, Maselko J, Mashburn K, Melica V, Moran J, Teerlink S. When the ocean went quiet: Assessing the response of humpback whales in Juneau, AK to a dramatic decrease in whale watching during the COVID-19 pandemic. Oral presentation, 25th Biennial Conference on the Biology of Marine Mammals, Perth, Australia.

2024 Bloch D§, Burt W, Hennon T, **Pearson H,** Szabo A. A systematic oceanographic characterization of Southeast Alaska. Poster presentation, 2024 Alaska Marine Science Symposium, Anchorage, Alaska.

2024 Teerlink S, **Pearson H**, Moran J, Atkinson S, Wright S. Focused humpback whale photo-ID effort used to document lethal and sub-lethal human interactions. Poster presentation, 2024 Alaska Marine Science Symposium, Anchorage, Alaska.

2023 **Pearson H**. The role of marine mammal recovery in a nature-positive vision. Invited oral presentation and panelist at the United Nations Climate Change Conference COP28 Official Side Event, Bringing Elephants into the Room: Why the UNFCCC Needs to Put Animals on the Table; Dubai, UAE.

2023 **Pearson H**. The role of whale recovery in a nature-positive vision. Invited oral presentation and panelist at the United Nations Climate Change Conference COP28 side event: Whales in Hot Water. Dubai, UAE.

2023 Castro J, Cid A, Quirin A, Matos F, Rosa R, **Pearson HC**. 2023. Dynamics of mother-calf pairs in common dolphins (*Delphinus delphis*) along the south coast of Portugal. Oral presentation, 34th Conference of the European Cetacean Society, O Grove, Spain.

2023 Quirin A, Matos FL, Cid A, Estrela G, **Pearson HC**, Joana Castro. Investigating laterality and spatial associations in common dolphin mother-calf pairs using an unmanned aerial vehicle. Poster presentation, 34th Conference of the European Cetacean Society, O Grove, Spain.

2023 **Pearson HC**. Can whale recovery help to store and sequester carbon? Invited oral presenter and panelist at the Engaging Marine Protected Areas to Protect Whales for Biodiversity Conservation and Climate Change Solutions session of the 5th International Marine Protected Areas Congress (IMPAC5), Vancouver, Canada.

2023 Atkinson DeMaster A, **Pearson H**, Teerlink S, Moran J, Mashburn K, Melica V.

Pregnancy rates and reproductive hormones in humpback whales. Oral presentation,

2023 Alaska Marine Science Symposium, Anchorage, Alaska.

2023 Bloch D, § Hennon T, **Pearson H**, Szabo A. Assessing humpback whales’ role in the

carbon and nutrient cycles of Southeast Alaska. Poster presentation, 2023 Alaska Marine

Science Symposium, Anchorage, Alaska.

2022 Bell T,\* Tinker T, Stekoll M, Moll A, **Pearson H**. Multidecadal kelp forest canopy

dynamics following the reintroduction of an apex predator. Oral presentation, 2022

Annual Meeting - Ecological Society of America, Montréal, Canada.

2022 Lettrich M, …**Pearson HC**, …..Lynch D. Vulnerability of U.S. marine mammal stocks in the Pacific and Arctic to climate change. Oral presentation, 24th Biennial Conference on the Biology of Marine Mammals, Palm Beach, FL.

2022 Brandhuber M,§ Atkinson DeMaster S, Curry E, Roth T, **Pearson H**, Cunningham C.

Characterizing DHEAS in zoo-housed polar bears. Oral presentation, 24th Biennial Conference on the Biology of Marine Mammals, Palm Beach, FL.

2022 Atkinson DeMaster A, Pack A, **Pearson HC**, …van Aswegan M. Seasonally stressed? Varying metabolic biomarkers in humpback whales (*Megaptera novaeangliae*) in Alaska and Hawaii. Oral presentation, 24th Biennial Conference on the Biology of Marine Mammals, Palm Beach, FL.

2022 Castro J,§ Faustino C, Cid A, Quirin A, Rosa R, **Pearson HC**. Common dolphin (*Delphinus delphis*) fission-fusion dynamics on the South Coast of Portugal. Oral presentation, 24th Biennial Conference on the Biology of Marine Mammals, Palm Beach, FL.

2022 **Pearson HC**, Atkinson DeMaster S, Melica V, Moran JR, Teerlink SS. Humpback whales (*Megaptera novaeangliae*) and tourism in Juneau, AK: Establishing baseline measurements during the COVID-19 pandemic. Oral presentation, 24th Biennial Conference on the Biology of Marine Mammals, Palm Beach, FL.

2022 Cheeseman, T,…**Pearson HC**, ….Southerland K. A happy collaboration: basin-scale, high-throughput, AI-assisted photo-ID matching for North Pacific humpback whales. Oral presentation, 24th Biennial Conference on the Biology of Marine Mammals, Palm Beach, FL.

2021 Bell TW,\* Tinker MT, Stekoll MS, Moll A,§ **Pearson H**. Changes in kelp cover associated with sea otter recovery in the NE Pacific. Oral presentation, Sea Otter Research and Conservation Symposium, on-line.

2021 LaRoche N,§ King S,§ Rogers M, Fergusson E, Eckert G, **Pearson H**. Sea otter diet composition in southern Southeast Alaska. Oral presentation, Sea Otter Research and Conservation Symposium, on-line.

2021 **Pearson HC**. Cetaceans as oceanic engineers. Invited oral presentation, European Cetacean Society Annual Conference, on-line.

2021 **Pearson HC**, Atkinson S, Maselko J, Moran JR, Rogers M, Teerlink S. Humpback whales and tourism in Juneau, AK: establishing baseline measurements during the COVID-19 pandemic. Oral presentation, Alaska Marine Science Symposium, on-line.

2020 Castro J,§ Couto A, Borges FO, Cid A, Laborde MI, **Pearson HC**, Rosa R. Abundance of common dolphins (*Delphinus delphis*) in the Algarve region, Portugal. Oral presentation, 19th National Ecology Meeting of SPECO – Portuguese Society of Ecology.

2019 **Pearson HC**, Lutz S. Translating the science of oceanic blue carbon into policy action to promote marine mammal conservation and climate change mitigation. Oral presentation, World Marine Mammal Conference, Barcelona, Spain.

2019 Castro J,§ Laborde MI, Cid A, Rosa R, **Pearson HC**. Assessing the impact of drones on the behavior of small dolphins. Oral presentation, World Marine Mammal Conference, Barcelona, Spain.

2019 Schuler AR,§ Piwetz S, Steckler D, Mueter F, **Pearson HC**. Effects of whale watch tourism on humpback whale (*Megaptera novaeangliae*) behavior and understanding passenger attitudes toward regulations in Juneau, AK. Poster presentation, World Marine Mammal Conference, Barcelona, Spain.

2019 LaRoche N,§ King S, § Eckert G., Rogers M, **Pearson H**. Sea otter (*Enhydra lutris*) seasonal diet composition in southern Southeast Alaska. Poster presentation, World Marine Mammal Conference, Barcelona, Spain.

2019 LaRoche N,§ King S,§ Eckert G, Rogers M, **Pearson H**. Sea otter (*Enhydra lutris*) seasonal diet composition in Southeast Alaska. Poster presentation, Western Society of Naturalists, Ensenada, Mexico.

2019 Bell TW,\* Tinker MT, Gill VA, Stekoll MS, Moll A,§ **Pearson HC**. Sea otter recolonization associated with regional increase in kelp forest canopy. Oral presentation, Sea Otter Conservation Workshop XI, Seattle, WA.

2019 LaRoche N,§ King S,§ Eckert G, **Pearson H**. Sea otter diet composition with respect to recolonization, demographic, and seasonal patterns in southern Southeast Alaska. Oral presentation, Sea Otter Conservation Workshop XI, Seattle, WA.

2018 Lutz S, Toomey J, **Pearson H.** Fish carbon ‐ ocean conservation as climate change action. Oral presentation by all co-authors, Eye on Earth Summit, Dubai, United Arab Emirates.

2018 Schuler AR,§ Steckler D, Piwetz S, **Pearson H**. Effects of whale watch tourism on humpback whale behavior and passenger knowledge of regulations in Juneau, AK. Poster presentation, American Cetacean Society 2018 Conference, Newport Beach, CA.

2018 Flerchinger D,§ Schuler AR,§ **Pearson HC**. Assessing potential impacts of whale watching on humpback whale respiration rates in Juneau, AK. Poster presentation, Alaska Marine Science Symposium, Anchorage.

2018 LaRoche NL,§ **Pearson HC**, Bolwerk AT, Raymond WW, Stephens TA, Eckert GL. Sea otter (*Enhydra lutris*) foraging behavior across a density gradient in Southeast Alaska. Poster presentation, Alaska Marine Science Symposium, Anchorage.

2018 Schuler AR,§ Steckler D, Piwetz S, **Pearson H**. Watching people watch whales in Juneau, AK: Assessing passenger attitudes towards regulations and how vessel presence impacts humpback whale behavior. Poster presentation, Alaska Marine Science Symposium, Anchorage.

2017 Bell T,\* Stekoll M, Moll A,§ **Pearson H**. Sea otter recolonization associated with regional increase in kelp forest canopy. Oral presentation, 98th Annual Meeting of the Western Society of Naturalists, Pasadena, CA.

2017 Schuler AR,§ Steckler D, Piwetz S, **Pearson H**. The costs and benefits of whale watching in Juneau, AK. Poster presentation, 22nd Biennial Conference on the Biology of Marine Mammals, Halifax, Nova Scotia.

2017 **Pearson HC**, Jones PW, Brandon TP,§ Stockin KA, Machovsky-Capuska G. Animal-borne cameras advance understanding of delphinid social and maternal strategies. Oral presentation, 22nd Biennial Conference on the Biology of Marine Mammals, Halifax, Nova Scotia.

2017 Moran J, Cates K, Cedarleaf J, Gabriele C, Jensen A, Lewis S, Neilson J, O’Dell M, **Pearson H**, Straley J, Szabo A. SPLISH - Survey of Population Level Indices for Southeast Alaskan Humpbacks. Poster presentation, Alaska Marine Science Symposium, Anchorage.

2017 Schuler A,§ **Pearson HC**. The costs and benefits of whale watching in Juneau, AK. Poster presentation, Alaska Marine Science Symposium, Anchorage.

2016 **Pearson HC**, Weir JS, Fanucci-Kiss A,§ Machanda ZP, Gowans S, Würsig B. Female association and grouping patterns in a mesopelagic delphinid: a pathway towards understanding convergence between cetaceans and primates. Oral presentation, Joint Meeting of the International Primatological Society and the American Society of Primatologists, Chicago, IL.

2016 Machanda Z, **Pearson HC**. Towards a better understanding of social convergence between cetaceans and primates. Symposium co-organizer, Joint Meeting of the International Primatological Society and the American Society of Primatologists. Chicago, IL.

2016 Di Clemente J,§ Christiansen F, Steckler D, Wahlberg M, **Pearson H**. Behavioural responses of humpback whales (*Megaptera novaeangliae*) to whale watching activities in Southeast Alaska: preliminary results. Poster presentation, 30th Annual Conference of the European Cetacean Society, Funchal, Madeira.

2014 **Pearson HC**, Bearzi G, Bonizzoni S, Santostasi NL.Understanding the social organization of an apex marine predator to inform conservation practices: striped dolphins in the Gulf of Corinth, Greece. Poster presentation, Third International Marine Conservation Congress, Glasgow, Scotland.

2014 Warren J, Parks SE, **Pearson H**, Owen K. Follow the food: Effects of fish and zooplankton on the behavioral ecology of baleen whales. Oral presentation, 168th Meeting of the Acoustical Society of America, Indianapolis, IN.

2013 Lopez G,§ **Pearson H**. How does whale watching influence passenger knowledge and conservation attitudes? Oral presentation, 20th Biennial Conference of the Society for Marine Mammalogy, Dunedin, New Zealand.

2013 Piwetz S,**Pearson HC**, Honkus KD, Srinivasan M, Vaughn RV, Würsig B. Decline in regional habitat use of dusky dolphins, *Lagenorhynchus obscurus*, in Admiralty Bay, New Zealand. Poster presentation, 20th Biennial Conference of the Society for Marine Mammalogy, Dunedin, New Zealand.

2013 Srinivasan M, **Pearson HC**, Würsig, B, Murtugudde R. Variable influence of regional vs. global climate dynamics on marine mammals in open and semi-closed systems: Case for a paradigm shift in climate change based conservation. Oral presentation, 20th Biennial Conference of the Society for Marine Mammalogy, Dunedin, New Zealand.

2013 Barlow KM,§ **Pearson HC**, Straley J. Activity budgets and foraging ecology of sea otters (*Enhydra lutris*) in Sitka, AK. Poster presentation, Sea Otter Conservation Workshop VIII, Seattle, WA.

2012 Grundy J, House D,§ Cartwright C, **Pearson H**. Comparing humpback whale group dynamics between the feeding and breeding grounds to create connectivity in research, education, and conservation. Poster presentation, 13th International Conference of the American Cetacean Society, San Diego, CA.

2011 **Pearson HC**, Vaughn RL, Srinivisan M, Würsig B, Murtugudde, R.Managing for robustness: potential effects of climate change and mussel farming on dusky dolphins (*Lagenorhynchus obscurus*) in Admiralty Bay, New Zealand. Oral presentation, 19th Biennial Conference of the Society for Marine Mammalogy, Tampa, FL.

2010 **Pearson HC**, Vaughn RL, Srinivisan M, Markowitz TM, Würsig. Managing for robustness: potential effects of climate change and mussel farming on dusky dolphins (*Lagenorhynchus obscurus*) in Admiralty Bay, New Zealand. Oral presentation, 24th Conference of the European Cetacean Society, Stralsund, Germany.

2009 Finerty SE, **Pearson HC**, Davis RW. Territory size and quality for male sea otters (*Enhydra lutris*) in Simpson Bay, Prince William Sound, Alaska. Poster presentation, 18th Conference of the Society for Marine Mammalogy, Quebec, Canada.

2009 **Pearson HC**, Markowitz TM, Weir JS, McFadden CJ, Würsig B. Fission-fusion social structure of dusky dolphins (*Lagenorhynchus obscurus*): social fluidity and preferred associations in a semi-pelagic species. Oral presentation, 18th Biennial Conference of the Society for Marine Mammalogy, Québec, Canada.

2009 Radecki Breitkopf C, **Pearson HC**, Dinh TA, Bich-Chieu T, Tran BS, Vu T, Bao Phan GA, Ngo QV, Tran VD, Rosenthal SL. Human papillomavirus vaccine decision making in Da Nang, Vietnam: Anticipated spousal and adolescent-parent concordance. Oral presentation, Society of Behavioral Medicine's 30th Annual Meeting and Scientific Sessions, Montreal, Canada.

2007 Amin HL,§ **Pearson HC**, Würsig B. Leaping behavior is related to increase in group size and feeding behavior of dusky dolphins (*Lagenorhynchus obscurus*) in Admiralty Bay, New Zealand. Poster presentation, 17th Biennial Conference of the Society for Marine Mammalogy, Cape Town, South Africa.

2007 Finerty SE, **Pearson HC**, Davis RW. Behavior of male sea otters (*Enhydra lutris*) in Prince William Sound, Alaska. Poster presentation, 17th Biennial Conference of the Society for Marine Mammalogy, Cape Town, South Africa.

2007 **Pearson HC**, Würsig B. Influence of food availability, predation, and marine farming on dusky dolphin (*Lagenorhynchus obscurus*) fission-fusion sociality in Admiralty Bay, New Zealand. Poster presentation, 17th Biennial Conference of the Society for Marine Mammalogy, Cape Town, South Africa.

2007 **Pearson HC**. Social convergence between bottlenose dolphins (*Tursiops* sp.) and chimpanzees (*Pan troglodytes*): focus on female reproductive strategies. Oral presentation, Comparative Ecological Research Symposium, Cape Town, South Africa.

2007 **Pearson HC**, Gailey G, Würsig B. 2007. Finscan as a tool to match dolphin dorsal fin images. Oral presentation, Recent Advances in Digital Techniques Workshop, 17th Biennial Conference of the Society for Marine Mammalogy, Cape Town, South Africa.

2005 **Pearson HC**, Davis RW. Behavior of territorial male sea otters (*Enhydra lutris*) in Prince William Sound, Alaska. Poster presentation, 16th Biennial Conference of the Society for Marine Mammalogy, San Diego, CA.

2005 Würsig B, **Pearson H**. Delphinid behavioral strategies. Oral presentation, Ninth International Mammalogical Congress, Symposium: Delphinid and Primate Social Ecology: a Comparative Overview, Sapporo, Japan.

2005 **Pearson H**, Würsig B, Pruetz J. Understanding social convergence between dolphins and great apes: where do we start? Poster presentation, Kyoto Conference: Delphinid and Primate Social Ecology. Kyoto, Japan.

2005 Würsig B, **Pearson H**, Markowitz, T. Delphinid behavioral flexibilities: social strategies in dusky dolphins. Oral presentation, Kyoto Conference: Delphinid and Primate Social Ecology, Kyoto, Japan.

2005 Slomovitz BM, Sun CC, Frumovitz M, Soliman PT, **Pearson HC**, Berenson A, Bodurka D.C. Are women ready for the cervical cancer vaccine? Oral presentation, Annual Meeting on Women's Cancer, Society of Gynecologic Oncologists, Miami Beach, FL.

2003 **Pearson HC**, Davis RW. A cost-benefit analysis for territorial male sea otters in Prince William Sound, Alaska. Poster presentation, 15th Biennial Conference of the Society for Marine Mammalogy, Greensboro, NC.

**PUBLISHED ABSTRACTS**

Two (2) published abstracts, both as co-author.

2014 Warren J, Parks SE, **Pearson H**, Owen K. Follow the food: Effects of fish and zooplankton on the behavioral ecology of baleen whales. Journal of the Acoustical Society of America 136:2185.

2009 Radecki Breitkopf C, **Pearson HC**, Dinh TA, Bich-Chieu T, Tran BS, Vu T, Bao Phan GA, Ngo QV, Tran VD, Rosenthal SL. Human papillomavirus vaccine decision making in Da Nang, Vietnam: Anticipated spousal and adolescent-parent concordance. Annals of Behavioral Medicine 37:S110, Suppl.

**PUBLISHED DATASETS**

Three (3) first-author and two (2) co-author datasets published. § student advisee, \* post-doc

2020 Nicole LaRoche,§ Emily Fergusson, and **Heidi Pearson**. Macronutrient analysis of sea otter prey in Southeast Alaska. Knowledge Network for Biocomplexity. doi:10.5063/F1Q23XNG.

2020 Nicole LaRoche,§ Sydney King,§ and **Heidi Pearson**. Sea otter foraging data, visual observations from Prince of Wales, Alaska. Knowledge Network for Biocomplexity. doi:10.5063/F1C53J8X.

2019 **Heidi Pearson**. Morphometrics of giant kelp forests in Southeast Alaska during Summer 2018. Knowledge Network for Biocomplexity. urn:uuid:1174da62-9345-401a-b97b-ad873c613f1b.

2019 **Heidi Pearson**, Tom Bell,\* and Michael Stekoll. Areal extent of surface canopy kelp forests in Southeast Alaska during Summer 2017. Knowledge Network for Biocomplexity. urn:uuid:c30fdaec-3eda-4aed-b7ab-456abe61463c.

2019 **Heidi Pearson**, Thomas Bell,\* and Michael Stekoll. Morphometrics of bull kelp forests in Southeast Alaska during Summer 2018. Knowledge Network for Biocomplexity. urn:uuid:b9297cd9-bc6b-495f-9203-24253080f555.

**REPORTS**

Two (2) first-author reports and four (4) co-author reports for a total of six (6) reports. § student advisee

2024 **Pearson HC**, Castro JC, Cid A, Matos F. 2024. Scientific experiment to evaluate dolphin cow-calf separation during purse seine fishing operations in the Eastern Tropical Pacific Ocean: Progress Summary report. Document SAC-15 INF-O. Inter-American Tropical Tuna Commission Scientific Advisory Committee 15th Meeting, 13 pp.

2022 Powell, J...**Pearson H**,…, Wilcox P. Juneau’s changing climate and community response. Alaska Coastal Rainforest Center, Juneau, AK, 53 pp

2021 Roman J, Kiszka JJ, **Pearson H**, Savoca MS, Smith CS. Ecological roles and impacts of large cetaceans in marine ecosystems. International Whaling Committee SC/68C/EM/05, 49 pp.

2019**Pearson H**. Assessment of oceanic blue carbon in the UAE: Biomass carbon mechanism with a focus on Abu Dhabi Emirate. AGEDI/GRID-Arendal/The Ocean Foundation, 52 pp.

2017 Keller KB,§ Gabriele CM, **Pearson HC**, Neilson JL, Vanselow PBS, Keller EK. Sighting frequency and distribution of marine mammals opportunistically recorded in Glacier Bay, Alaska and adjacent waters (2005-2014). Progress Report to the National Park Service, 40 pp.

2004 Davis RW, Gilkinson A, **Pearson H**, F Weltz. Feeding ecology of sea otters in Simpson Bay, Alaska. Pp. 50-35 in: Maldini D, Calkins D, Atkinson S, Meehan R , eds. Alaska Sea Otter Research Workshop: Addressing the Decline of the Southwestern Alaska Sea Otter Population. Fairbanks, AK: Alaska Sea Grant College Program (AK-SG-04-03).

**POPULAR SCIENCE ARTICLES**

Sixteen (16) first-author articles and four (4) co-author articles for a total of 20 popular articles.

2023 Barefoot N, **Pearson H**. Whales and climate. Pp. 41-52 in: The Ocean and Us. F.

Obaidullah, ed. Springer. Invited submission.

2021 **Pearson H**. Climate change reality and hope. Juneau Empire.

2019 **Pearson H**. The importance of sustainable whale watching in Juneau. Juneau Empire.

2019 **Pearson H**. Sea creatures store carbon in the ocean – could protecting them help slow climate change? The Conversation. Invited submission.

2018 **Pearson H**. Harnessing the power of connections and effective communication. UN Environment/GRID-Arendal. Invited submission.

2018 Lutz SJ, **Pearson H**, Vatter J, Bhakta D. Oceanic blue carbon. Story Map. UN Environment/GRID-Arendal. Invited submission.

2018 Lutz S, **Pearson H**. International endorsement of “Whale Carbon”. UN Environment/ GRID-Arendal. Invited submission.

2018 **Pearson H**. As if I was a tree. UN Environment/GRID-Arendal. Invited submission.

2018 **Pearson H**, Lutz S. Fighting climate change with whale conservation. UN Environment/GRID-Arendal. Invited submission.

2017 **Pearson HC**, Machovsky-Capuska GE. The secret life of dolphins. Australasian Science, November/December: 32-35. Invited submission.

2017 **Pearson HC**. The science of sustainability. Juneau Empire.

2015 **Pearson HC**. Behavior. Pp. 20-24 in: Berta A, ed. Whales, Dolphins, and

Porpoises: A Natural History and Species Guide. East Sussex: The Ivy Press.

2015 **Pearson HC**. Common bottlenose dolphin. Pp. 182-183 in: Berta A, ed. Whales,

Dolphins, and Porpoises: A Natural History and Species Guide. East Sussex: The Ivy

Press. Invited submission.

2015 **Pearson HC**. Conservation and management. Pp 44-45 in: Berta A, ed. Whales,

Dolphins, and Porpoises: A Natural History and Species Guide. East Sussex: The Ivy

Press. Invited submission.

2015 **Pearson HC**. Surface behavior. Pp. 56-59 in: Berta A, ed. Whales, Dolphins, and

Porpoises: A Natural History and Species Guide. East Sussex: The Ivy Press. Invited submission.

2015 **Pearson HC**. Where and how to watch. Pp. 60-61 in: Berta A, ed. Whales, Dolphins, and Porpoises: A Natural History and Species Guide. East Sussex: The Ivy Press. Invited submission.

2013 Eckert GL, **Pearson H**. My turn: growing sea otter population in Southeast Alaska focus of upcoming symposium. Juneau Empire.

2011 **Pearson H**. What can the behavior of chimps and dolphins tell us about human

moms? Science and Religion Today. Invited submission.

2009 **Pearson H**. Our blue world. Bi-weekly column in the Gloucester Daily Times*.*

2007 **Pearson H**. The otters of untamed Alaska. Pp. 188-190 in: Cresswell G, Walker D.

Pusser T, eds. Whales & Dolphins of the North American Pacific (Including

Seals and Other Marine Mammals). Hampshire: Wild Guides Ltd.

**MEDIA COVERAGE (selected)**

Dr. Pearson’s research and scientific expertise has been featured by major media outlets across North America, Europe, Asia, and Australasia.

2024 Crafting the perfect poo. [Hakai magazine.](https://hakaimagazine.com/news/crafting-the-perfect-poo/)

2024 Whales, dolphins, monkeys. Project Save the World, [episode 612](https://tosavetheworld.ca/episode-612-whales-dolphins-monkeys/).

2024 Where compassion and conservation meet. [Sierra Magazine](https://www.sierraclub.org/sierra/2024-2-summer/notes-here-there/whales-compassionate-conservation).

2024 Climate change made "the Blob." It killed tons of marine life. Serious Inquiries Only

podcast, [episode SIO444](https://podcasts.apple.com/be/podcast/sio444-climate-change-made-the-blob-it-killed-tons/id803584715?i=1000653793758).

2024 Surprise! These animals can help fight climate change. [ScienceNewsExplores](https://www.snexplores.org/article/animals-fight-climate-change-environment).

2024 Whales can sing underwater without drowning—now we know how. [National](https://www.nationalgeographic.com/animals/article/humpack-whales-singing-underwater-larynx)

Geographic.

2023 Ocean gardeners: why whale poop matters now more than ever. [Discover Magazine](https://www.discovermagazine.com/planet-earth/ocean-gardeners-why-whale-poop-matters-now-more-than-ever).

2023 Can whales help fight climate change? Breaching Extinction podcast, episode [123](https://podcasters.spotify.com/pod/show/breachingextinction/episodes/123--Can-Whales-Help-Fight-Climate-Change-e219rjn).

2023 Why are orcas attacking rich people boats? Serious Inquiries Only podcast, episode

[SIO375](https://podcasts.apple.com/am/podcast/sio375-why-are-whales-attacking-rich-people-boats/id803584715?i=1000623751316).

2023 UnDisciplined: Could whales help fight climate change? [Utah Public Radio](https://www.upr.org/show/undisciplined/2023-03-30/undisciplined-could-whales-help-fight-climate-change).

2023 Why helping whales to flourish can help fight climate change. [Los Angeles Times](https://www.latimes.com/environment/story/2023-02-07/why-helping-whales-to-flourish-can-help-fight-climate-change).

2023 Whales store carbon. Scientists are figuring out how much. [Japan Times](https://www.japantimes.co.jp/news/2023/04/09/world/science-health-world/whales-carbon-storage-how-much/).

2023 Cruise ship invasion. [Hakai magazine](https://hakaimagazine.com/features/cruise-ship-invasion/).

2023 Could whale poop help cool the planet? [PBS/NOVA](https://www.pbs.org/video/whale-poop-4nqlso/#:~:text=Whale%20poop%20is%20a%20treasure,even%20help%20cool%20the%20Earth.).

2023 What is ‘kelping’? Why whales are making hats out of seaweed. [National Geographic](https://www.nationalgeographic.com/animals/article/kelping-whale-behavior-seaweed).

2023 A humpback whale swam halfway around the world. His name is Frodo. [National](https://www.nationalgeographic.com/animals/article/humpback-whale-longest-migration-record)

Geographic.

2022 Research casts skepticism on 'blue carbon' climate efforts. Politico.

2022 Want to save the planet? Saving whales could help, scientists say. [Washington Post](https://www.washingtonpost.com/climate-environment/2022/12/15/whales-carbon-sink-climate-change-sequestration/).

2022 Whales may be a secret weapon in the fight against climate change. [Fast Company](https://www.fastcompany.com/90824672/whales-climate-change-carbon).

2022 Whales can have an important but overlooked role in tackling the climate crisis, researchers say. [CNN](https://www.cnn.com/2022/12/15/world/whales-carbon-sinks-climate-change-scn/index.html).

2022 Scientists to carbon markets: don’t monetize the whales. [Bloomberg](https://www.bloomberg.com/news/articles/2022-12-15/whale-conservation-funded-by-carbon-markets-scientists-push-back).

2022 Whales act as carbon sinks. [The Naked Scientist](https://www.thenakedscientists.com/articles/interviews/whales-act-carbon-sinks).

2022 Whales help mitigate climate change by pooping carbon into the ocean and taking more

with them when they die, scientists say. [Business Insider](https://www.businessinsider.com/whales-capture-carbon-climate-change-dying-pooping-2022-12).

2022 Whales could be a valuable carbon sink, say scientists. [Science Daily](https://www.sciencedaily.com/releases/2022/12/221215120727.htm#:~:text=%22Their%20size%20and%20longevity%20allow,products%2C%22%20write%20the%20authors.).

2022 Whales can combat climate change by capturing carbon. [The Times](https://www.thetimes.com/uk/science/article/whales-can-combat-climate-change-by-capturing-carbon-6gvs0nt6q) (London).

2022 Revelry and unease in Alaska as cruises return. [New York Times](https://www.nytimes.com/2022/08/18/travel/alaska-cruises-return.html).

2021 How sea otters can fight climate change. [BBC Future](https://www.bbc.com/future/article/20210914-how-sea-otters-help-fight-climate-change).

2021 Why whales in Alaska have been so happy. [BBC News](https://www.bbc.com/news/world-us-canada-58032702).

2021 Alaskan scientists continue humpback research as whale watching industry aims to rebound. [NOAA Fisheries](https://www.fisheries.noaa.gov/feature-story/alaskan-scientists-continue-humpback-research-whale-watching-industry-aims-rebound).

2021 Ocean life can help mitigate climate change: new study. [UN Environment Programme](https://www.unep.org/technical-highlight/ocean-life-can-help-mitigate-climate-change-new-study#:~:text=Live%20animals%20store%20carbon.,the%20effects%20of%20climate%20change.).

2021 A profile of Dr. Heidi Pearson, Marine Biologist. [The Business Download: Clean Energy](https://clean-energy.thebusinessdownload.com/a-profile-of-dr-heidi-pearson-marine-biologist/).

2020 Humpback whales seize chance to sing in Alaska's cruise-free Covid summer. [The Guardian](https://www.theguardian.com/environment/2020/oct/02/humpback-whales-sing-alaska-covid-summer-researchers).

2020 Researchers study Juneau’s whales without cruise ship passenger interactions. [KTUU](https://www.alaskasnewssource.com/2020/08/15/researchers-study-juneaus-whales-without-cruise-ship-passenger-interactions/).

2019 Protecting marine life could be key in fighting climate change as sea creatures trap and store carbon in the ocean, researcher says. [Daily Mail](https://www.dailymail.co.uk/sciencetech/article-6940981/Protecting-marine-life-key-fighting-climate-change-expert-says.html).

2019 What’s big, lives underwater, and fights climate change with its body and booty? Whale give you one guess. [Popular Science](https://www.popsci.com/whales/).

2018 Business unusual: How “fish carbon” stabilizes our climate. [UN Environment](https://www.unep.org/news-and-stories/story/business-unusual-how-fish-carbon-stabilizes-our-climate#:~:text=A%20new%20concept%2C%20%E2%80%9Cfish%20carbon,in%20stabilizing%20the%20Earth's%20climate.)

Programme.

2017 Underwater cameras let scientists dive beneath the surface with dolphins. [Mongabay](https://news.mongabay.com/2017/06/underwater-cameras-let-scientists-dive-beneath-the-surface-with-dolphins/).

2017 Alaska professor, student to study impact of whale watching. [CBC News](https://www.cbc.ca/news/canada/north/alaska-whale-watching-study-impacts-juneau-1.4117448#:~:text=This%20summer%2C%20professor%20Heidi%20Pearson,have%20found%2C%22%20Pearson%20said.).

2017 Dolphin’s-eye video is breathtaking, barfy. Discover Magazine.

2017 Scientists have developed a new way to monitor the secret lives of wild dolphins. New York Magazine.

2017 Scientists invented a special camera so you can see the world through the eyes of a dolphin. [Quartz](https://qz.com/925576/scientists-invented-a-special-camera-so-you-can-see-the-world-through-the-eyes-of-a-dolphin).

2017 Here's what dolphins do underwater when people are watching. [Digital Trends](https://www.digitaltrends.com/cool-tech/dolphin-camera/#:~:text=Custom-made%20cameras%20are%20showing%20marine%20biologists%20what%20dolphins,have%20been%20captured%20away%20from%20direct%20human%20contact.).

2017 Cutting-edge cameras reveal the secret life of dolphins. [Science Daily](https://www.sciencedaily.com/releases/2017/02/170221110740.htm).

2016 New study of Kaikoura’s dolphin population to reveal valuable insight into behavior. [Stuff New Zealand](https://www.stuff.co.nz/environment/75654573/new-study-of-kaikouras-dolphin-population-to-reveal-valuable-insight-into-behaviour).

2011 Chimps and dolphins share cultural similarities. [Wired](https://www.wired.com/2011/07/chimpanzees-dolphins-similar/#:~:text=Both%20species%20form%20complex%20societies,years%20in%20rearing%20their%20offspring.).

**TELEVISION APPEARANCES**

Dr. Pearson’s research has been featured in six (6) documentary films and news programs across North America, Europe, and Australasia.

2022 CNN International with Michael Holmes. Interviewed about recent paper discussing the role of whales in the carbon cycle.

2022 Return to Alaska. SRF (Swiss Television).

2021 The Year Earth Changed, featurette. Focus on Stress. BBC and AppleTV+.

2017 Wild Alaska Live, Episode 3. Interviewed live from the field about humpback whale behavior and ecology in Alaska. BBC and PBS.

2017 Daily Planet. News segment highlighting Dr. Pearson’s dolphin tagging research. Discovery Channel Canada.

2016 The Secret Lives of Dolphins. Segment for the news program, “Seven Sharp”, highlighting Dr. Pearson’s dolphin tagging research. TV ONE, New Zealand.

**PROFESSIONAL ASSOCIATIONS**

2015-16 International Primatological Society

2014-15 Society for Conservation Biology

2012-15 Human Anatomy and Physiology Society

2012-13 American Cetacean Society

2003- Society for Marine Mammalogy

**SERVICE TO PROFESSION**

2023- Invited member of the Socio-Economic Values of the Contribution of Cetaceans to Ecosystem Functioning Advisory Group of the International Whaling Commission

2022- Review Editor, Frontiers in Marine Science, Marine Megafauna section

2021- Invited member of the International Whaling Commission Cetaceans and Ecosystem

Functioning working group

2020-21 NOAA Fisheries Marine Mammal Climate Vulnerability Assessment Scoring Team

2017- Level 3 Large Whale Disentanglement Responder

2015- Alaska Stranding Agreement Holder

2013-15 NSF Panelist: Integrated Organismal Systems

2012- NOAA/NMFS Pinniped Entanglement Group

Reviewer for: Aquatic Mammals, Australian Zoologist, Behavioural Processes, Canadian Journal of Zoology, Deep Sea-Research Part II, Ethology, Frontiers in Marine Science, Journal of Animal Ecology, Journal of Marine Research, Marine Ecology Progress Series, Marine Mammal Science, PLOS ONE, Polar Biology, Proceedings of the Royal Society B, Waste Management