

ALEJANDRO ACEVEDO-GUTIERREZ

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EDUCATION

Postgraduate Researcher, University of California Santa Cruz. 1998-2001. *Application of models to the dive behavior of large whales*. PIs: Don Croll and Bernie Tershy.

Ph.D., Wildlife & Fisheries Sciences, Texas A&M University. 1997. *Interspecific interactions between dolphins and sharks at Isla del Coco, Costa Rica*. Advisor: Bernd Würsig.

Biól. Mar., Universidad Autónoma de Baja California Sur, Mexico. (B.Sc. Mar. Biol.). 1989. *Behavior of bottlenose dolphins in an estuarine system*. Advisors: Luis Fleischer and Jorge Urbán-Ramírez.

APPOINTMENTS

Professor in Biology and Science Education, Western Washington University. 2013-present.

Research Fellow, University of California Santa Cruz. 2001-present.

Associate Professor in Biology and Science Education, Western Washington University. 2007-2013.

Assistant Professor in Biology and Science Education, Western Washington University. 2002-2007.

Senior Aquatic Educator & Research Associate, California Academy of Sciences. 2001-2002.

Associate Faculty, School for Field Studies. 1989.

SELECTED HONORS AND AWARDS

2019 Arlan Norman Award for Excellence in Student Mentoring, Western Washington University.

2014 Teaching-Learning Academy Award, Western Washington University

2013 Teaching-Learning Academy Award, Western Washington University

2009 Special Merit Award, Western Washington University.

2007 Featured Scientist, Center for Talented Youth, Johns Hopkins University.

2005 Featured Scientist, Houghton-Mifflin Science, California Edn. for Elemen. School Children.

2005 Science Spectrum Trailblazer, Top Minority in Science, CAREER Communications Group.

2004 Service-Learning Faculty Fellowship, Western Washington University.

2002 Award for Excellence in Research, State of Baja California Sur and City of La Paz, México.

2002 Academic Excellence Award, Universidad Autónoma de Baja California Sur, México.

2002 EdCom Annual Meeting Diversity Scholarship, American Assoc. of Museums, USA.

2001 MOSI's National Hispanic Scientist of the Year, USA. 2001.

2001 Key to the City of Tampa and Dr. Alejandro Acevedo-Gutiérrez, National Hispanic Scientist of the Year Day, October 20th, 2001, Tampa, USA..

1994 University Marine Fellowship, Texas A&M University, USA.

TEACHING

COURSES- WESTERN WASHINGTON UNIVERSITY (most recent)

BIOL101- *Introduction to Biology*. Spring 2003.

BIOL195- *Introduction to Marine Biology*. Fall 2019.

BIOL204- *Introduction to Evolution, Ecology and Biodiversity*. Winter 2008, 2010.

BIOL206- *Introduction to Organismal Biology*. Spring 2017, 2018, 2019.

BIOL397A- *Introduction to Tropical Marine Biology*. Spring 2016, 2018. w/D. Donovan, B. Miner.

BIOL437A- *Tropical Marine Organismal Biology*. Summer 2018. w/D. Donovan, B. Miner, S. Flores.
BIOL437B- *Tropical Marine Ecology*. Summer 2018. w/D. Donovan, B. Miner, S. Flores.
BIOL464- *Biology of Marine Mammals*. Fall 2018, 2019, 2020.
BIOL521- *Introduction to Biology Research*. Fall 2016, 2019.
BIOL523- *Research Presentation*. Winter-Spring 2015; Winter-Spring 2018.
BIOL599- *Seminar in Marine Conservation Biology*. Winter 2004.
BIOL599- *Seminar in Bioethics*. Fall 2007.
SCED203- *Matter and Energy in Life Systems*. Spring 2018, 2020, Fall 2018, 2019, 2020.
SCED370- *Science and Society*. Fall 2011, 2012.
SCED480- *Science Methods and Curriculum for the Elementary School*. Winter 2020.
SCED490- *Laboratory/Field Experience in Elementary Science*. Winter 2017, Spring 2017.
SCED492- *Teaching Science for the Secondary School*. Winter-Spring 2004.
SCED517- *Communicating Science: Creating a Scientifically Literate Society*. Fall 2007; Winter 2008.
w/A. Boudreaux.

Academic Service Learning Courses

BIOL445E- *Marine Conservation Biology*. Spring 2004.

LECTURER

Large Cetaceans, Universidad Complutense, Madrid, Spain. November 2001 (In Spanish).

Natural History of Cetaceans, School for Field Studies, Kauai, USA. Summer 1989. With J. Guerrero and G. Meyer.

TEACHING MATERIALS

Acevedo-Gutiérrez, A., Borda, E., DeBari, S., Donovan, D. & Linneman, S. 2016. A Learning Cycle Approach to Guided Inquiry in a Four-Course Interdisciplinary Science Series. *Innovative Teaching Showcase* 2015-16 (17), Western Washington University. Bellingham, WA.

Department of Biology. 2015. Biology 206: Introduction to Organismal Biology Laboratory Manual. Hayden-McNeil Publishing, Plymouth, MI.

Donovan, D., Rouseau, J., Salter, I., Atkins, L., Acevedo-Gutiérrez, A., Landel, C., Mullen, V., Pap-Lindstrom, P. & Kratz, R. 2014. *Life Science & Everyday Thinking. It's About Time*, Mount Kisco, NY.

DIRECTED MASTERS THESIS (Department of Biology, Western Washington University)

19 students (average stay: 31.6 ± SD 14.4 months).

Ten peer-reviewed papers.

Fifteen presentations at professional conferences.

Thirty-six presentations at student meetings.

Kathleen McKeegan (2020-present).

Cooperative hunting behavior and social networking of harbor seals.

Zöe Lewis (2020-present). Co-advised with Dr. Dietmar Schwarz.

Pinniped consumption of salmonids along the Olympic coast, WA.

Bobbie Buzzell (2019-present).

River otter consumption of invasive European green crab in Makah Bay, Washington State.

Awards: 2019 Washington Sea Grant Science Communications Fellowship.

External Funding: 2020- North Pacific Coast Marine Resources Committee.

Grace Freeman (2019-present).

Variability in site visitation and foraging success of individual harbor seals on salmonids the Salish Sea.

Awards: Robert L. Hamilton Family Graduate Fellowship in Science, 2020-2022.

External Funding: North Cascades Audubon Society, 2020.

Nathaniel Guilford (2018-present).

Non-invasive individual genotyping in the harbor seal. Co-advised with Dr. Dietmar Schwarz.

Results: 2019 23rd Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

2019 Eighth Annual Graduate Student Symposium, WWU, Bellingham.

Jonathan Blubaugh (2018-present).

Impacts of mixed trophic interactions in Puget Sound. Co-advised with Dr. Dietmar Schwarz.

Results: 2019 23rd Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

2019 Eighth Annual Graduate Student Symposium, WWU, Bellingham.

Madelyn Voelker (2016-2018). Current: Program Coordinator, Ocean Research College Academy.

Sex-based diet of harbor seals in the Salish Sea. Co-advised with Dr. Dietmar Schwarz.

Results: Ecology and Evolution 10: 9867-9885.

2018 22nd Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Newport.

2018 Seventh Annual Graduate Student Symposium, WWU, Bellingham.

2017 21st Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Vancouver.

External Funding: 2017 North Cascades Audubon Society.

2017 Everett Community College.

Adrienne Akmajian (2014-2016). Current: Marine Ecologist, Makah Tribe.

Year-round algal toxin exposure in free-ranging sea lions.

Results: Marine Ecology Progress Series 583: 243-258.

2015 19th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Corvallis.

Kat Nikolich (2013-2015). Current: Ph.D. student, University of Victoria.

Breeding calls of male harbor seals relative to ambient noise.

Awards: 2014 Best Poster Presentation WWU Graduate Conference, Bellingham.

Results: Canadian Journal of Zoology 96: 1236-1243.

Journal of the Acoustical Society of America 140: 1300-1308.

2015 21st Biennial Conference on the Biology of Marine Mammals, San Francisco.

2015 23rd Annual British Columbia Marine Mammal Research Symposium, Vancouver, Canada.

2015 52nd Annual Conference of the Animal Behavior Society, Anchorage.

2015 19th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Corvallis.

2015 Fourth Annual Graduate Student Symposium, WWU, Bellingham.

2015 Third Annual Graduate Student Symposium, WWU, Bellingham.

2014 18th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.

External Funding: 2014 North Cascades Audubon Society.

Andrew Rothstein (2012-2015). Current: Ph.D. student, University of California, Berkeley.

Non-invasive genetic tracking of harbor seals. Co-advised with Dr. Dietmar Schwarz.

Awards: 2013 Best Poster Presentation Society for Marine Mammalogy NW Student Chapter.

Results: Molecular Ecology Resources in press.

2014 2nd North America Congress for Conservation Biology, Missoula.

2014 WWU Graduate Conference, Bellingham.

2014 18th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.

2013 17th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

Dr. Erin D'Agnes (2012-2015). Current: Adjunct Researcher, University of Tasmania.

(PhD from University of California Davis.)

The effect of maternal traits on rearing success in harbor seals.

Results: 2015 21st Biennial Conference on the Biology of Marine Mammals, San Francisco.

2014 WWU Graduate Conference, Bellingham.

2014 18th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.

- 2013 17th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.
- Jennifer Olson** (2011-2013). Current: Marine Science Instructor, ORCA/Everett Community College.
The effect of human exposure on the anti-predatory response of harbor seals (Phoca vitulina).
 Results: Aquatic Mammals 43: 673-681.
 2013 17th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.
 2012 16th Meeting of the Society for Marine Mammalogy NW Student Chapter, Vancouver.
 External Funding: 2012 Kiwanis Club of Anacortes Foundation Grant.
- Dr. Austen Thomas** (2008-2010). Current: Research Scientist, Smith-Root.
 (PhD from University of British Columbia.)
Selective foraging by harbor seals: the importance of herring spawning and holding aggregations.
 Awards: 2011 Best Student Presentation Award, Salish Sea Ecosystem Conference.
 2011 Graduate Research Award, Department of Biology, WWU.
 Results: Marine Ecology Progress Series 441: 225-239.
 2011 Salish Sea Ecosystem Conference, Vancouver.
 2009 18th Biennial Conference on the Biology of Marine Mammals, Quebec.
 2009 13th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.
- Sasha Ertl (McFarland)** (2007-2013). Current: Biologist, Grette Associates.
Influence of sex and body mass on harbor seal diving behavior.
 Results: 2009 18th Biennial Conference on the Biology of Marine Mammals, Quebec.
 2009 13th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.
 2009 Fisheries and Marine Ecosystems 2009 Graduate Student Conference, Vancouver.
 2008 12th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Vancouver.
- Sarah Howard** (2007-2009). Current: Biologist, National Park Service.
Energy use and prey consumption of harbor seals in the San Juan Islands, WA.
 Awards: 2009 Society of Marine Mammalogy Travel Grant.
 Results: Fishery Bulletin 111: 27-41.
 2009 18th Biennial Conference on the Biology of Marine Mammals, Quebec.
 2009 13th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.
 2009 Fisheries and Marine Ecosystems Graduate Student Conference, Vancouver.
 2008 12th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Vancouver.
 External Funding: 2008 Research Assistantship in Estuarine Science and Coastal Zone Management.
- Dr. Kenady Wilson (Reuland)** (2006-2008). Current: Research Scientist, Wildlife Computers.
 (PhD from Duke University.)
Seasonal variation in the foraging behavior of harbor seals in the Georgia Basin.
 Results: PLoS ONE 7: e92838.
 2009 18th Biennial Conference on the Biology of Marine Mammals, Quebec.
 2008 15th Ocean Sciences Meeting, Orlando.
 2007 11th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.
- Dr. Sarah Peterson (Hardee)** (2006-2008). Current: Wildlife Biologist, U.S. Geological Survey.
 (PhD from University of California Santa Cruz.)
Movements and home ranges of harbor seals in the inland waters of the Pacific Northwest.
 Awards: 2008 Outstanding Student Award, American Society of Limnology and Oceanography.
 2006 WWU-NSF GK-12 Fellowship.
 Results: PLoS ONE 7: e39046.
 2009 18th Biennial Conference on the Biology of Marine Mammals, Quebec.
 2008 12th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.
 2008 15th Ocean Sciences Meeting, Orlando.
 2007 11th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.
 External Funding: 2007 Research Assistantship in Estuarine Science and Coastal Zone Management.
- Katie Luxa** (2004-2008). Current: Contractor, National Marine Mammal Laboratory.
Diet of harbor seals in Padilla Bay and Drayton Harbo, Washington.

Awards: 2004 WWU-NSF GK-12 Fellowship.

Results: Aquatic Mammals 39: 10-22.

2008 12th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

2006 10th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.

External Funding: 2005 Research Assistantship in Estuarine Science and Coastal Zone Management.

Adria Banks (2003-2007). Current: Quantitative Analyst, Ecotope.

Harbor seal abundance and habitat use relative to candidate marine reserves in Skagit County, WA.

Awards: 2004-2007 NSF Graduate Fellowship.

Results: 2007 11th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

2006 10th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.

2005 16th Biennial Conference on the Biology of Marine Mammals.

2004 8th Meeting of the Society for Marine Mammalogy Northwest Student Chapter, Seattle.

External Funding: 2005 Research Assistantship in Estuarine Science and Coastal Zone Management.

2005 Lerner-Gray Fund for Marine Research.

MENTORED UNDERGRADUATE STUDENTS

Western Washington University

37 students (average stay: 13.8 ± SD 6.1 months).

Ten peer-reviewed papers.

Five presentations at professional conferences.

Fifty-five presentations at student meetings.

Kate Clayton (2020-present).

Harbor seal foraging behavior in Whatcom Creek.

Sophie Carlson (2020-present).

Diet of male and female harbor seals in the Salish Sea. Co-advised with Dr. D. Schwarz

Kyra Bankhead (2020-present).

In-air noise impact on harbor seal haul-out behavior.

Delaney Adams (2019-2020).

Cooperative foraging behavior in harbor seals.

Results: Seminar Honors (online), WWU, 2020.

Helen Krueger (2019-2020). Current: Naturalist, Hamer Environmental.

Microbial community associated with a harbor seal haul-out site.

Results: 2020 Student Poster Presentation (online), Scholars' Week, WWU.

Madison McKay (2018-2019). Current: Natural Resource Steward, Padilla Bay Natl. Estuarine Reserve.

Factors influencing foraging success in harbor seals.

Results: 2019 23rd Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

2019 Eighth Annual Graduate Student Symposium, WWU, Bellingham.

Wyatt Heimbichner Goebel (2018-2019). Recent graduate.

Seasonal variation of harbor seal occurrence in Bellingham.

Results: 2019 23rd Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

2019 Eighth Annual Graduate Student Symposium, WWU, Bellingham.

Alisa Aist (2017-2019). Current: Official, Alaska Department of Fish and Game.

Human attitudes towards harbor seals in Bellingham, WA.

Results: 2019 23rd Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

2019 Eighth Annual Graduate Student Symposium, WWU, Bellingham.

2018 22nd Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Newport.

2018 Student Poster Presentation, Scholars' Week, WWU.

McKenna Newmarch (2017-2018). After graduation: Research Assoc., New York Univ. Langone Health.

Factors affecting hunting success in harbor seals.

Results: 2018 22nd Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Newport.
2018 Student Poster Presentation, Scholars' Week, WWU.

Funding: 2018 Chair Research Fund, Department of Biology, WWU.

2018 Research & Creative Opportunities Grants for Undergraduates, WWU.

Rachel Wachtendonk (2016-2017). Current: MSc student, Universidade do Algarve.

Are there rogue seals in Whatcom Creek, Bellingham, WA?

Results: 2017 22nd Biennial Conference on the Biology of Marine Mammals, Quebec.

2017 21st Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Vancouver.

2017 Student Poster Presentation, Scholars' Week, WWU.

Raven Capone Benko (2016-2017). Current: MSc student, University of Washington.

Habituation by harbor seals to construction disturbance in downtown Bellingham, WA.

Results: 2017 21st Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Vancouver.

2017 Student Poster Presentation, Scholars' Week, WWU.

Daniel Woodrich (2015-2016). After graduation: Protected Species Observer, NW Environmental Consult.

Effects of environmental variables on harbor seal occurrence at a seasonal foraging site.

Awards: 2016 Outstanding Award, Scholars' Week, Bellingham.

Results: 2016 20th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

2016 Student Poster Presentation, Scholars' Week, WWU.

Funding: 2016 Research & Creative Opportunities Grants for Undergraduates, WWU.

Nicholas Wesen (2015). Current: Veterinary Student, Washington State University.

Seasonal variation of harbor seal occurrence in Bellingham.

Sara Spitzer (2014-2015). Current: Associate Scientist, Illumina Inc.

Diet of male and female harbor seals via genetic analysis. Co-advised with Dr. Dietmar Schwarz.

Awards: 2015 Women in Science Scholarship Departmental Nominee, Department of Biology, WWU.

2015 Outstanding Award, Scholars' Week, Bellingham.

Results: Ecology and Evolution 8: 9889-9905.

2017 22nd Biennial Conference on the Biology of Marine Mammals, Halifax.

2015 19th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Corvallis.

2015 Student Poster Presentation, Scholars' Week, WWU.

Funding: 2014 Research & Creative Opportunities Grants for Undergraduates, WWU.

Erin Matthews (2014-2015). Current: Habitat Restoration Coordinator, Skagit Fish. Enhancement Grp.

Aggregate response of harbor seals to adult salmonid runs and the occurrence of 'rogue' individuals.

Awards: 2014 Department Scholarship, Department of Biology, WWU.

2014 Frances and Alfred Baker Memorial Scholarship, Department of Biology, WWU.

Results: 2017 22nd Biennial Conference on the Biology of Marine Mammals, Quebec.

2015 19th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Corvallis.

2015 Student Poster Presentation, Scholars' Week, WWU.

2014 18th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.

2014 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.

Funding: 2014 Research & Creative Opportunities Grants for Undergraduates, WWU.

Ashlyn Teather (2014-2015). After graduation: MSc from University of Minnesota Duluth.

Long-term effects of development on harbor seal numbers in downtown Bellingham, WA.

Results: 2015 19th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Corvallis.

2015 Student Poster Presentation, Scholars' Week, WWU.

Raquel Robayo-Krause (2013-2014). After graduation: Registered Nurse, Providence Health & Services.

Temporal variation in the aggregate response of harbor seals to chum salmon runs.

Results: 2014 18th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.

2014 Student Poster Presentation, Scholars' Week, WWU.

Nathan Moore (2013-2014). Current: Science Teacher, Byhalia Middle School.

Seasonal variation of harbor seal numbers relative to human development in Bellingham, WA.

Results: 2014 18th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.
2014 Student Poster Presentation, Scholars' Week, WWU.

Kelsey Moreno (2012-2013). Current: Post Doctoral Researcher, Tel Aviv University.
(PhD from University of Southern Mississippi.)

Association patterns of bottlenose dolphins in Golfo Dulce, Costa Rica.

Results: Royal Society Open Science 3: 160010.
2013 Honors Presentation, Western Washington University, Bellingham.

Erika Winner (2012-2013). Current: MSc student, University of Minnesota Duluth.

Aggregate response of harbor seals to adult salmonid runs and the occurrence of 'rogue' individuals.

Results: 2013 17th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.
2013 Student Poster Presentation, Scholars' Week, WWU.

Funding: 2013 Research & Creative Opportunities Grants for Undergraduates, WWU.

Emily Mulnick (2012-2013). Current: Science, Spanish, Leadership Coach, One Stone, Inc.

Seasonal variation of harbor seal occurrence in Bellingham.

Erin Stehr (2011-2012). Current: Puget Sound Corps Team Lead, Wash. Dept. of Natural Resources.

Aggregate response of harbor seals to adult salmonid runs and the occurrence of 'rogue' individuals.

Awards: 2011-2012 Outstanding Graduating Senior, Department of Biology, WWU.
2011 Ross Undergraduate Tuition Scholarship, Department of Biology, WWU.
2011 Tuition Waiver Scholarship, Department of Biology, WWU.

Results: 2012 16th Meeting of the Society for Marine Mammalogy NW Student Chapter, Vancouver.
2012 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.

Funding: 2011 Research & Creative Opportunities Grants for Undergraduates, WWU.

Bobbie Buzzell (2011-2012). Current: MSc student, Western Washington University.

*Diet of coastal river otters (*Lontra canadensis*) in the San Juan Archipelago.*

Awards: 2012 Best Undergraduate Presentation, 16th Meet. Soc. Marine Mammal., NW Chapter.
2011-2012 Undergraduate Research Award, Department of Biology, WWU.
2011 Frances and Alfred Baker Memorial Scholarship, Department of Biology, WWU.
2011 Hodgson Scholarship, Department of Biology, WWU.

Results: Aquatic Mammals 40: 150-161.
2012 16th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Vancouver.
2012 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.

Funding: 2011 North Cascades Audubon Society.
2011 Research & Creative Opportunities Grants for Undergraduates, WWU.
2011 Chair Research Fund, Department of Biology, WWU.

Kelly Cates (2011-2012). Current: Fisheries Management Specialist, NOAA Fisheries Alaska Region

The behavioral response of harbor seals to boat traffic under different levels of exposure.

Awards: 2012 Alumni Student Research Fellowship, Department of Biology, WWU.
2012 Faculty Fellowship, Department of Biology, WWU.
2012 Student Athlete Scholarship, Department of Biology, WWU.

Results: Aquatic Mammals 43: 193-200.
2012 16th Meeting of the Society for Marine Mammalogy NW Student Chapter, Vancouver.
2012 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.

2011 15th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Vancouver.
Funding: 2011 North Cascades Audubon Society.
2011 Research & Creative Opportunities Grants for Undergraduates, WWU.
2011 Chair Research Fund, Department of Biology, WWU.

Kelley van Hees (Andrews) (2010-2011). After graduation: MSc from Moss Landing Marine Labs.

*Diet of coastal river otters (*Lontra canadensis*) in the San Juan Archipelago.*

Awards: 2010 Frances and Alfred Baker Memorial Scholarship, Department of Biology, WWU.
2010 Biology Faculty Fellowship, Department of Biology, WWU.

Results: 2010 14th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.

- Kevin Eyer** (2008-2009). Current: Science Teacher, North Kitsap High School.
Mapping of seal movements as an educational tool.
 Funding: 2008-2009 Washington Space Grant Research Award.
- Mandy Betz (Chomos)** (2008-2009). After graduation: Mar. Mamm. Biol., Point Defiance Zoo & Aquarium.
Home ranges of harbor seals from the San Juan Islands.
 Results: 2009 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.
- Chris Vennum** (2008-2009). Current: PhD student, Colorado State University.
 (MSc from University of Nevada Reno.)
Home ranges of harbor seals from the San Juan Islands.
 Results: 2009 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.
- Sara Cendejas-Zarelli** (2008-2009). Current: Biologist, The Lower Elwha Klallam Tribe.
Nocturnal haul-out behavior of harbor seals in Bellingham, Washington.
 Results: Aquatic Mammals 37: 167-174.
 Funding: 2008 North Cascades Audubon Society.
- Lauren Grant** (2007-2008). After graduation: Masters in Teaching from Seattle University.
*Diet of coastal river otters (*Lontra canadensis*) in the San Juan Archipelago.*
- James James Soda, Jr.** (2007). Current: Assistant Professor of Mathematics, Quinnipiac University.
 (PhD from Florida State University.)
Alcid and cormorant foraging behavior in Burrows Channel, Anacortes, WA.
 Awards: 2009 Outstanding Graduating Senior, WWU.
 Results: 2007 WWU-NSF REU Presentation at Shannon Point Marine Center.
 Funding: 2007 WWU-NSF REU at Shannon Point Marine Center.
- Jessica Farrer** (2006-2008). Current: Research Associate, Sr3 Sealife Response, Rehab and Research
Harbor seal abundance in Bellingham, Washington.
 Awards: 2007-2008 Women in Science Scholarship, WWU.
 Results: Northwestern Naturalist 91: 74-79.
 2008 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.
 2007 11th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Seattle.
 Funding: 2007 Western Foundation's Mentoring Undergraduate Grant, WWU.
 2007 North Cascades Audubon Society.
- Jessie Perry (Patterson)** (2006). Current: Physical Therapist, Valley Physical Therapy.
 (DPT from University of Montana.)
Tidal influence on the haul-out behavior of harbor seals.
 Awards: 2006 Oscar Edwin Olson Scholarship, WWU.
 Results: Northwestern Naturalist 89: 17-23.
 2007 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.
 Funding: 2006 Western Foundation's Mentoring Undergraduate Grant, WWU.
- Sarah Myhre** (2003-2006). Current: Science and Communications Officer, CO2 Foundation.
 (PhD from University of California Davis.)
*The sea urchin *Diadema antillarum* and coral recovery, Caribbean Costa Rica.*
Species inventory in the tidepools of Gandoca-Manzanillo Wildlife Refuge, Costa Rica.
 Awards: 2005-2006 Women in Science Scholarship, WWU.
 2006 Student Travel Grant, 13th Ocean Sciences Meeting, Honolulu.
 2004-2005 Biology Undergraduate Research Award, WWU.
 2005 Bermuda Biological Station for Research Scholarship.
 Results: Marine Ecology Progress Series 329: 205-210.
 2006 CUR Posters on the Hill, Washington.
 2006 13th Ocean Sciences Meeting, Honolulu.
 2005 Meeting of the Washington-Vancouver Chapter, Wildlife Society, Port Townsend.
 2004 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.
 2004 Seventh Annual Undergraduate Research Symposium, Univ. of Washington, Seattle.

Funding: 2004 PADI Foundation Grant.
 2004 Chair Research Fund, Department of Biology, WWU.
 2003 Undergraduate Research Award, Washington NASA Space Grant Consortium.
 2003 Research & Creative Opportunities Grants for Undergraduates, WWU.

Amber Johnson (2003-2005). After graduation: MSc from Oregon State University.

Regulation compliance and harbor seal (Phoca vitulina) disturbance.

Awards: 2005 Presidential Scholar Award, WWU.

Results: Canadian Journal of Zoology 85: 290-294.

2005 16th Biennial Conference on the Biology of Marine Mammals, San Diego.

2005 9th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Vancouver, CA.

2005 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.

2004 NASA Space Consortium Annual Meeting, Seattle.

2004 NASA Space Consortium Fall Poster Session, Seattle.

Funding: 2004 Undergraduate Research Award, Washington NASA Space Grant Consortium.

2004 Research & Creative Opportunities Grants for Undergraduates, WWU.

2004 Chair Research Fund, Department of Biology, Western Washington University.

Alyssa Matthews (2003-2005). After graduation: MSc from University of Washington.

Association patterns of bottlenose dolphins in Golfo Dulce, Costa Rica.

Results: 2005 16th Biennial Conference on the Biology of Marine Mammals, San Diego.

Morghan Austin (2003-2004). Current: Office Manager, Bridgeport Behavioral Health.

Barnacle size relative to snail distribution in Larabee State Park, Washington.

Results: 2004 Student Poster Presentation, WWU Chapter-Sigma-Xi, WWU.

Texas A&M University

Nadine Parker (1996-97)

Bottlenose dolphin behavior at Isla del Coco, Costa Rica. Marine Mammal Science 16: 287-290.

Stephanie Burkhart (1995-96)

Dolphin distribution in Golfo Dulce, Costa Rica. Revista de Biología Tropical 46 (S 6): 91-101.

Forbes Darby (1995-96)

Killer whales feeding on a shark in Costa Rica. Marine Mammal Science 12: 606-611.

Molly Thomas (1994-95)

Behavior of false killer whales in Costa Rica. Marine Mammal Science 13: 135-142.

Kimberly J. Dudizk (1992-94)

Seabirds at Isla del Coco, Costa Rica. Revista de Biología Tropical 44: 303-304.

UNDERGRADUATE STUDENTS AS RESEARCH ASSISTANTS

Research Assistants- Western Washington University

157 students (average stay: 9.0 ± SD 6.4 months).

Direct supervisor: Graduate students, undergraduate students, myself.

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| 2020 | Breanna Baisch | Eli Shah | Erik Saastamo |
| | Jennifer Quiroz | Drew Larson | Mary Valentine |
| | Maddie Gard | Damon Sheneman | Leila Parnell |
| | Bree Daigneault | Antonia Parrish | Ildiko Kremper |
| | Elsa Anaya | | |
| 2019 | Jeffrey Jasper (to 2020) | | |
| | Amanda Rueda (to 2020) | Chaya Gaberria (to 2020) | Brenna Taylor |
| | John Leonard (to 2020) | Rachael Riley (to 2020) | Kyra Bankhead (to 2020)* |

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|------|----------------------------|-----------------------------------|--|
| | Holland Conwell (to 2020) | Katherine Fry (to 2020) | Jakob Hindman (to 2020) |
| | Jeremy Johnson (to 2020) | Erik Ehlers (to 2020) | Vail Dark (to 2020) |
| | Abby Severns (to 2020) | Kate Clayton (to 2020)* | Riley Marcus (to 2020) |
| | Sophie Carlson (to 2020)* | Olivia Mueller (to 2020) | Maren Stratton (to 2020) |
| 2018 | Wyatt Heimbichner Gobble* | Jenny Hamilton (to 2019) | Megan Hills (to 2019) |
| | Amanda Eisenberg | Sam Klassen | Nina-Tuyen Tran |
| | Jane Schrock (to 2019) | Savannah Smith (to 2019) | Shaelynne Trunk (to 2019) |
| | Helen Krueger* | Ethan Duvall | Glenna Dyson-Roberts (to 2020) |
| | Madison Boock (to 2019) | | |
| 2017 | Sage Pollack (to 2019) | Mariah Kollasch (to 2018 to 2019) | Delany Adams (to 2019) |
| | Logan Kuhn (to 2018) | Michelle Joseph (to 2018) | Skyler Elmstrom (to 2018) |
| | Andy Nutzhorn (to 2018) | Madison McKay (to 2018)* | Hillary Thalmann (to 2018) |
| | Justin Ridley | Dane Heggens | Elizabeth Hanson |
| | Emily Rose | | |
| 2016 | Nathan Roueche | Tanner Thuet-Davenport (to 2017) | Brenna McClellan (to 2017) |
| | Maria Prieto (to 2017) | Riannon Rondeau (to 2017) | Makenna Johansen (to 2017) |
| | Bre Mills (to 2018) | Ian Blixt (to 2017) | MacKenna Newmarch (to 2017) |
| | Lindsey Hanson | Virginia O'Callahan | Alisa Aist (to 2017) |
| 2015 | | Skye French (to 2017) | Hannah Burley (to 2017) |
| | Nolan Newman (to 2016) | Ethan Tilly | Raven Benko* |
| | Holden Miller (to 2017) | Nick Wesen* | Madeleine Hopkins |
| 2014 | Kirsten Steinke (to 2015) | Fischer Young (to 2015) | Jessica Kerby (to 2016) |
| | Daniel Woodrich (to 2015)* | Jessica Stanley (to 2015) | Alexi Osterhaus (to 2015) |
| | Gunnar Guddal | Zack Pike-Urlacher | Amy Lepis |
| | Elizabeth McMurchie | Erin Harker (to 2015) | Kayla Litterel (and 2016) |
| | Kailey Gaibran-Voorhes | Rachel Wachtendonk (to 2016)* | Chardonnai Bondurant-Crummel (to 2015) |
| | Allegra La Ferr (to 2015) | Megan Dripps | Mariah Bergeson |
| 2013 | Kinsi Clarke (to 2016) | Kacey Koenig | Amanda Claussen |
| | McKenzie Gwinn | Erin Matthews* | Kady Walker |
| | Ashlyn Teather* | Jennifer Lopez (U. Wash.) | Nathan Moore* |
| 2012 | Rachel Blyth | Kelsey Moreno* | Emily Kelleigh (to 2013) |
| | Lesli Baker (to 2013) | Kaitlyn Ly | Raquel Robayo-Krause* |
| | Hannah Underwood | Emily Mulnick* | Anna Hulbert |
| | Dan Senner | Caitlyn Moore | Michelle Bender |
| 2011 | Eric DeLander | Kelsey Scharnhorst | Erika Winner (to 2012) |
| 2010 | Emily Jeffreys | Laurel Mundy | Kelly Cates* |
| 2009 | Meredith Emery | Anndrea Hahn | Indu Soini |
| | Kelley Andrews* | | |
| 2008 | Jaime Barkley | Amanda Chomos* | |
| 2007 | Kelley Andrews | Sara Cendejas-Zarelli* | Patrick Haggerty (to 2008) |

| | | | |
|------|----------------------------|---------------------------|----------------------------|
| | Adam Peck-Richardson | Kelsea Peterman | Tyler Ritchie |
| | James Soda* | Christopher Vennum* | Colin Wahl |
| | Lindsey Watson | | |
| 2006 | Jessica Farrer (to 2007)* | Alexandra Heiley | |
| 2005 | Katie Booth | Alice Crowley (to 2006) | Jennifer Doherty |
| | Richard Hawkins | Andrea Henton | Emily Higuchi |
| | Jessie Patterson* | Justin Paul | Brittany Poirson (to 2006) |
| | Elaine Schroeder (to 2006) | | |
| 2004 | Lisa Bailey | Elizabeth Floyd (to 2005) | Anna O’Coyne |
| | Jennifer Sloth | Austen Thomas | |
| 2003 | Amber Johnson* | Sarah Myhre* | |

*Continued as mentored undergraduate student in lab.

Undergraduate Independent Study- Western Washington University

Alexi Osterhaus. *Biology of Marine Mammals*. Spring 2015.

Kailey Gabrian-Voorhees. *Scientific diving*. Winter 2014.

Stephen Mason Jr. *Video project Tropical Marine Biology*. Fall 2012.

Professional Work Experience in Biology- Western Washington University

Lesli Baker. A review of the wasting disease as seen in asteroids. *Marine Life Center*. Bellingham, USA. Winter 2014.

Bobbie Buzzell. An overview of sea turtle biology and the chelonid fibropapilloma herpes virus. *Sea Turtle Foundation*. Townsville, Australia. Fall 2012.

Nicole Beaulieu. Study and conservation of the critically endangered Pacific leatherback turtle. *Southwest Fisheries Science Center*. La Jolla, USA. Fall 2008.

Nicole Beaulieu. Scat analysis to determine pinniped diet. *Southwest Fisheries Science Center*. La Jolla, USA. Fall 2007.

Nathan Franck. The modern pulp mill: a review of wastewater treatment and monitoring processes. *Pope & Talbot, Inc*. Winter 2007.

Clayton Barber. Teaching an old dog new tricks. A theoretical essay on soft techniques in taming and training wild birds of prey. *Sardis Raptor Center*. Ferndale, USA. Winter 2007.

Johanna Hobart-Crane. Inter-species and intra-species competition in the endangered Juan Fernández firecrown (*Sephanoides fernandensis*) and green-backed firecrown (*Sephanoides sephanoides*): evidence for decreased female Juan Fernández firecrown survival? *Juan Fernández Islands Conservancy*. Isla Juan Fernández, Chile. Winter 2007.

Andrea Henton. Considerations for housing a captive octopus. *Marine Life Center*. Bellingham, USA. Spring 2005.

Kristen Eaker. Treatment of horses. *Cultus Mountain Ranch*, Mount Vernon, USA. Spring 2005.

James Losee. Environmental and economical effects of mid-season regulation change on a selective fishery in Westport, Washington. *Washington Department of Fish and Wildlife*. Montesano, USA. Spring 2005.

Carly Shimabukuro. A review of the state of fish populations and anglers in Washington State. *Washington Department of Fish and Wildlife*. Montesano, USA. Spring 2005.

Heather Larsen. Spawning and incubation flow requirements to optimize egg to smolt survival of the salmonid population in the Yakima Basin. *Bureau of Reclamation*. Yakima, USA. Fall 2004.

Katherine M. DeLorenzo. Training voluntary dorsal injections in an Atlantic bottlenose dolphin (*Tursiops truncatus*) using positive reinforcement. *Minnesota Zoo*. Apple Valley, USA. Fall 2003.

Professional Work Experience in Secondary Education- Western Washington University

Rebecca Krueger. *Sehome High School*, Bellingham, USA. Winter-Spring 2004.

Teaching Practicum in Biology- Western Washington University

| | | | |
|------|--|---|--|
| 2019 | Maraya Dieguez Kailee Hickey | Akimi Green Jacqueline Kremer | Samuel Herr |
| 2018 | Angela Heggen | Megan Staffieri | |
| 2017 | Maya Klem | Jenna Hymas | Cullem MacKenzie |
| 2015 | Morgan Olsen | Daniel Woodrich | |
| 2014 | Kemdal Dean Lindsey Strandberg Kaitlyn Lowder | Kaytlyn Ly Natalie Hoyt | Eleanor Lamont Emily Woods |
| 2013 | Mckenzie Gwinn Marina Philip | Nicole White | Tim McClure |
| 2012 | Jacqueline Bensinger | Wes Christiansen | Nam Tran |
| 2008 | Aaron Schaller Trevin Hoffman | Kim Duong Christy Miller | Parsan Saffaie |
| 2007 | Rachel Wright | | |
| 2006 | Kyle Fowler | Sarah Schroeder | Ronan Ngai |
| 2005 | Katie Logsdon Elizabeth Floyd | Carin Pereira | Meghan Maves-Watson |
| 2004 | Darlene Snapper Hadly Hames | Emily Jenson Tam Huynh | Leise Woltring |
| 2003 | Alyssa Hawn Kristin Curtis Margaret Kloster Martin Coonen | Chrystin Gabryshak Cristina Slaybaugh Tam Huynh Joanna Boswell | Vienna Frykholm Burkley Snow Aman Gill |

Research Assistants-Texas A&M University

Interns and field assistants (35). 1990-1997.

OTHER TEACHING ACTIVITIES

Member of Western MS Thesis Committees

Carter Urnes. In progress. Sea star distribution in the peninsula of Baja California.

Brittany Balbag. 2016. A molecular method to quantify sex-specific consumption of Chinook salmon by harbor seals using scat.

Aaron Jacobsen. 2008. A comparison of populations of birds and reptiles in burned and unburned areas in high elevation shrub-steppe habitat.

Kathleen Johnson. 2008 Are birds contributing to the spread of *Spartina* by carrying its seeds to a new location?

Chris Fabry. 2007. Spatiotemporal patterns of Florida scrub lizard abundance in young, regenerating Florida scrub.

- Leslie Gonzalez. 2007. Plant species and functional diversity across gradients of resource availability and grazing in a California serpentine grassland.
- Deborah Purce. 2006. Comparative ecophysiology of two geographically isolated populations of lion's paw scallop, *Nodipectyen subnodosis*, in Baja California Sur, México,
- Michael Thimgan. 2005. The effects of wave force and period on the energy expenditure of the intertidal marine gastropod, *Scutus antipodes*.
- Kara Shaber. 2005. Feeding on dinoflagellates by late stage larval crabs raised in the laboratory and collected from the field.
- Steven K. Schwartz. 2004. Benefits of multiple mating in the blue milkwood beetle, *Chrysochus cobaltinus* (Coleoptera: Chrysomelidae).
- Ellie Rose. 2004. Foraging behavior in *Gambelia wislizenii*, the long-nosed leopard lizard, in Harney County, Oregon.

Mentored International Students

- Valentina Melica** (2012). University of Trieste, Italy.
Harbor seal (Phoca vitulina) abundance in Bellingham.

Mentored Science Teachers

- Rebecca Krueger** (2005-06). Mount Vernon High School science teacher.
Harbor seal (Phoca vitulina) habitat use in a candidate marine reserve in Skagit County, WA.
2005 M. J. Murdock Charitable Trust Poster Presentation, Vancouver, Washington.

California Academy of Sciences

-Developed educational curricula for K-12 teachers, taught docent classes, trained volunteers, led summer camps, conducted presentations, and judged National Youth Science Camp and science fairs.

SCHOLARSHIP

(¹WWU undergraduate student, ²WWU graduate student)

REFEREED PUBLICATIONS

- 2020 **Voelker, M.²**, Schwarz, D., Thomas, A., Nelson, B. & Acevedo-Gutiérrez, A. Large-scale molecular barcoding of prey DNA reveals environmental predictors of intrapopulation feeding diversity in a marine predator. *Ecology and Evolution* 10: 9867-9885.
- 2018 **Nikolich, K.²**, Frouin-Moury, H. & Acevedo-Gutiérrez, A. Clear diel patterns in breeding calls of harbor seals (*Phoca vitulina*) at Hornby Island, British Columbia. *Canadian Journal of Zoology* 96: 1236-1243.
- 2018 Schwarz, D., **Spitzer, S.¹**, Thomas, A., **Kohnert, C.²**, **Keates, T.¹** & Acevedo-Gutiérrez, A. Large-scale molecular diet analysis in a generalist marine mammal reveals male preference for prey of conservation concern. *Ecology and Evolution* 8: 9889-9905.
- 2018 Carlén, I., Thomas, L., Carlström, J., Amundin, M., Teilmann, J., Tregenza, N., Tougaard, J., Koblitz, J.C., Sveegaard, S., Wennerberg, D., Loisa, O., Dähne, M., Brundiers, K., Kosecka, M., Kyhn, L.A., Ljungqvist, C.T., Pawliczka, I., Koza, R., Arciszewski, B., Galatius, A., Jabbusch, M., Laaksonlaita, J., Niemi, J., Lyytinen, S., Gallus, A., Benke, H., Blankett, P., Skóra, K.E., & Acevedo-Gutiérrez, A. Basin-scale distribution of harbour porpoises in the Baltic Sea provides basis for effective conservation actions. *Biological Conservation* 226: 43-53.
- 2018 Acevedo-Gutiérrez, A. Group Behavior. In: Würsig, B., Thewissen, J. G. M. & Kovacs, K. K. (eds.) *Encyclopedia of Marine Mammals*. pp. 428-435. 3rd edition. Academic Press, San Diego, USA.
- 2017 Chasco, B. E., Kaplan, I. C., Thomas, A. C., Acevedo-Gutiérrez, A., Noren, D. P., Ford, M. J., Hanson, M. B., Scordino, J. J., Jeffries, S. J., Marshall, K. N. Shelton, A. O., Matkin, C., Burke, B.

- J. & Ward, E. J. Competing tradeoffs between increasing marine mammal predation and fisheries harvest of Chinook salmon. *Scientific Reports* 7: 15439.
- 2017 **Akmajian, A. M.²**, Scordino, J. J. & Acevedo-Gutiérrez, A. Year-round algal toxin exposure in free-ranging sea lions. *Marine Ecology Progress Series* 583: 243-258.
- 2017 **Olson, J.²** & Acevedo-Gutiérrez, A. Influence of human exposure on the anti-predatory response of harbor seals (*Phoca vitulina*). *Aquatic Mammals* 43: 673-681.
- 2017 Chasco, B., Kaplan, I., Thomas, A., Acevedo-Gutiérrez, A., Noren, D. P., Ford, M. J., Hanson, M. B., Scordino, J., Jeffries, S. J., Pearson, S. F., Marshall, K. & Ward, E. J. Estimates of Chinook salmon consumption in Washington State inland waters by four marine mammal predators from 1970 - 2015. *Canadian Journal of Fisheries and Aquatic Sciences* 74: 1173-1194.
- 2017 **Rothstein, A.²**, **McLaughlin, R.²**, Acevedo-Gutiérrez, A. & Schwarz, D. WISEPAIR: a computer program for individual matching in genetic tracking studies. *Molecular Ecology Resources* 17: 267-277.
- 2017 **Cates, K.¹** & Acevedo-Gutiérrez, A. Harbor seal (*Phoca vitulina*) tolerance to vessels under different levels of boat traffic. *Aquatic Mammals* 43: 193-200.
- 2016 **Moreno, K.¹** & Acevedo-Gutiérrez, A. The social structure of Golfo Dulce bottlenose dolphins (*Tursiops truncatus*) and the influence of behavioural state. *Royal Society Open Science* 3: 160010.
- 2016 **Nikolich, K.²**, Frouin-Moury, H. & Acevedo-Gutiérrez, A. Quantitative classification of harbor seal breeding calls in Georgia Strait, Canada. *Journal of the Acoustical Society of America* 140: 1300-1308.
- 2016 Adams, J., Kaplan, I., Chasco, B., Marshall, K. N., Acevedo-Gutiérrez, A. & Ward, E. J. A century of Chinook salmon consumption by marine mammal predators in the Northeast Pacific Ocean. *Ecological Informatics* 34: 45-51.
- 2015 Bjorland, R. H., Pearson, S. F., Jeffries, S. J., Lance, M. M., Acevedo-Gutiérrez, A. & Ward, E. J. Stable isotope mixing models elucidate sex and size effects on the diet of a generalist marine predator. *Marine Ecology Progress Series* 526: 213-225.
- 2014 **Wilson, K.²**, Lance, M., Jeffries, S. & Acevedo-Gutiérrez, A. Fine-scale variability in harbor seal foraging behavior. *PLoS ONE* 9: e92838.
- 2014 **Buzzell, B.¹**, Lance, M. & Acevedo-Gutiérrez, A. Spatial and temporal variation in river otter (*Lontra canadensis*) diet and predation on rockfish (Genus *Sebastes*) in the San Juan Islands, Washington. *Aquatic Mammals* 40: 150-161.
- 2014 Bessesen, B. L., Oviedo, L., Hart, L. B., Herra-Miranda, D., Pacheco-Polanco, J. D., **Baker, L.¹**, Saborío-R., G., Bermúdez-Villapol, L. & Acevedo-Gutiérrez, A. Lacaziosis-like disease among bottlenose dolphins *Tursiops truncatus* photographed in Golfo Dulce, Costa Rica. *Diseases of Aquatic Organisms* 107: 173-180.
- 2013 **Luxa, K.²** & Acevedo-Gutiérrez, A. Food habits of harbor seals (*Phoca vitulina*) in two estuaries in the Central Salish Sea. *Aquatic Mammals* 39: 10-22.
- 2013 Bromaghin, J. F., Lance, M. M., Elliot, E. W., Jeffries, S. J., Acevedo-Gutiérrez, A. & Kennish, J. M. New insights into the diets of harbor seals in the Salish Sea of western North America revealed by quantitative fatty acid signature analysis. *Fishery Bulletin* 111: 13-26.
- 2013 **Howard, S.²**, Lance, M., Jeffries, S. & Acevedo-Gutiérrez, A. Fish consumption by harbor seals (*Phoca vitulina*) in the San Juan Islands, WA. *Fishery Bulletin* 111: 27-41.
- 2012 Lance, M. M., Chang, W.-Y., Jeffries, S. J., Pearson, S. F. & Acevedo-Gutiérrez, A. Harbor seal diet in northern Puget Sound: implications for the recovery of depressed fish stocks. *Marine Ecology Progress Series* 264: 257-271.
- 2012 **Peterson, S. H.²**, Lance, M. M., Jeffries, S. J. & Acevedo-Gutiérrez, A. Long distance movements and disjunct spatial use of harbor seals (*Phoca vitulina*) in the inland waters of the Pacific Northwest. *PLoS ONE* 7: e39046.

- 2012 Ward, E. J., Levin, P. S., Lance, M. M., Jeffries, S. J. & Acevedo-Gutiérrez, A. Integrating diet and movement data to identify hot spots of predation risk and areas of conservation concern for endangered species. *Conservation Letters* 5: 37-47.
- 2011 **Thomas, A.**², Lance, M. M., Jeffries, S. J., Miner, B. & Acevedo-Gutiérrez, A. Harbor seal foraging response to a seasonal resource pulse, spawning Pacific herring. *Marine Ecology Progress Series* 441: 225-239.
- 2011 Acevedo-Gutiérrez, A., Acevedo, L. & Boren, L. Effects of the presence of official-looking volunteers on harassment of New Zealand fur seals. *Conservation Biology* 25: 623-627.
- 2011 Acevedo-Gutiérrez, A. & **Cendejas-Zarelli, S.**¹ Nocturnal haul-out patterns of harbor seals (*Phoca vitulina*) related to airborne noise levels in Bellingham, Washington, USA. *Aquatic Mammals* 37: 167-174.
- 2011 Acevedo-Gutiérrez, A., Acevedo, L., Belonovich, O. & Boren, L. How effective are posted signs to regulate tourism? An example with New Zealand fur seals. *Tourism in Marine Environments* 7: 39-41.
- 2010 **Farrer, J.**¹ & Acevedo-Gutiérrez, A. Use of haul-out sites by harbor seals (*Phoca vitulina*) in Bellingham: implications for future development. *Northwestern Naturalist* 91: 74-79.
- 2009 Acevedo-Gutiérrez, A. Group Behavior. In: Perrin, W. F., Würsig, B. & Thewissen, J. G. M. (eds.) *Encyclopedia of Marine Mammals*. pp 511-520. 2nd edition. Academic Press, San Diego, USA.
- 2009 Acevedo-Gutiérrez, A. Habitat Use. In: Perrin, W. F., Würsig, B. & Thewissen, J. G. M. (eds.) *Encyclopedia of Marine Mammals*. pp 525-529. 2nd edition. Academic Press, San Diego, USA.
- 2008 **Patterson, J.**¹ & Acevedo-Gutiérrez, A. Tidal influence on the haul-out behavior of harbor seals (*Phoca vitulina*) in a site available at all tide levels. *Northwestern Naturalist* 89: 17-23.
- 2007 **Johnson, A.**¹ & Acevedo-Gutiérrez, A. Regulation compliance and harbor seal (*Phoca vitulina*) disturbance. *Canadian Journal of Zoology* 85: 290-294.
- 2007 **Myhre, S.**¹ & Acevedo-Gutiérrez, A. Recovery of sea urchin *Diadema antillarum* populations is correlated to increased coral and reduced macroalgal cover. *Marine Ecology Progress Series* 329: 205-210.
- 2005 Acevedo-Gutiérrez, A., DiBerardinis, A., Larkin, S., Larkin, L. & Forestell, P. Social interactions between tucuxis and bottlenose dolphins in Gandoca-Manzanillo, Costa Rica. *Latin American Journal of Aquatic Mammals* 4: 49-54.
- 2004 Acevedo-Gutiérrez, A. & Stienessen, S. C. Bottlenose dolphins (*Tursiops truncatus*) increase number of whistles when feeding. *Aquatic Mammals* 30: 357-362.
- 2002 Acevedo-Gutiérrez, A. Interactions between marine predators: dolphin food intake is related to number of sharks. *Marine Ecology Progress Series* 240: 267-271.
- 2002 Acevedo-Gutiérrez, A., Croll, D. & Tershy, B. High feeding costs limit dive time in large whales. *The Journal of Experimental Biology* 205: 1747-1753.
- 2002 Acevedo-Gutiérrez, A. Group Behavior. In: Perrin, W. F., Würsig, B. & Thewissen, J. G. M. (eds.) *Encyclopedia of Marine Mammals*. pp. 537-544. Academic Press, San Diego, USA.
- 2002 Croll, D., Clark, C. W., Acevedo, A., Tershy, B., Flores, S., Gedamke, J. & Urbán, J. Only male fin whales sing loud songs. *Nature* 417: 809.
- 2001 Croll, D., Acevedo-Gutiérrez, A., Tershy, B. & Urbán-R., J. The diving behavior of blue and fin whales: is dive duration shorter than expected based on oxygen stores? *Comparative Biochemistry and Physiology A* 129: 797-809.
- 2000 Acevedo-Gutiérrez, A. & Parker, N. Surface behavior of bottlenose dolphins is related to spatial arrangement of prey. *Marine Mammal Science* 16: 287-298.
- 1999 Acevedo-Gutiérrez, A. Aerial behavior is not a social facilitator in bottlenose dolphins hunting in small groups. *Journal of Mammalogy* 80: 768-776.
- 1998 Acevedo-Gutiérrez, A. & Burkhart, S. Seasonal distribution of bottlenose (*Tursiops truncatus*) and pan-tropical spotted (*Stenella attenuata*) dolphins in Golfo Dulce, Costa Rica. *Revista de Biología Tropical* 46, Suppl. 6: 91-101.

- 1997 Acevedo-Gutiérrez, A., Brennan, B., Rodríguez, P. & Thomas, M. Resightings and behavior of false killer whales, *Pseudorca crassidens*, in Costa Rica. *Marine Mammal Science* 13: 307-314.
- 1996 Acevedo, A. Lista de mamíferos marinos en Golfo Dulce e Isla del Coco, Costa Rica. *Revista de Biología Tropical* 44: 933-934.
- 1996 Fertl, D., Acevedo-Gutiérrez, A. & Darby, F. A report of killer whales (*Orcinus orca*) feeding on a carcharhinid shark in Costa Rica. *Marine Mammal Science* 12: 606-611.
- 1995 Acevedo, A. & Smultea, M. First records of humpback whales including calves at Golfo Dulce and Isla del Coco, Costa Rica, suggesting geographical overlap of northern and southern hemisphere populations. *Marine Mammal Science* 11: 554-559.
- 1994 Acevedo-Gutiérrez, A. First record of a sea lion, *Zalophus californianus*, at Isla del Coco, Costa Rica. *Marine Mammal Science* 10: 484-485.
- 1994 Acevedo-Gutiérrez, A. First records of occurrence and nesting of three bird species at Isla del Coco, Costa Rica. *Revista de Biología Tropical* 42: 762.
- 1994 Bräger, S., Würsig, B., Acevedo, A. & Henningsen, T. Association patterns of bottlenose dolphins (*Tursiops truncatus*) in Galveston Bay, Texas. *Journal of Mammalogy* 75: 431-437.
- 1993 Tershy, B., Acevedo-G., A., Breese, D. & Strong, C. Diet and feeding behavior of fin and Bryde's whales in the Central Gulf of California, México. *Revista de Investigación Científica* (No. Esp. SOMEMMA) 1: 31-37.
- 1991 Acevedo, A. Behaviour and movements of bottlenose dolphins, *Tursiops truncatus*, in the entrance to Ensenada de La Paz, México. *Aquatic Mammals* 17: 137-147.
- 1991 Acevedo, A. Interactions between boats and bottlenose dolphins, *Tursiops truncatus*, in the entrance to Ensenada de La Paz, México. *Aquatic Mammals* 17: 120-124.
- 1991 Acevedo, A. & Würsig, B. Preliminary observations on bottlenose dolphins, *Tursiops truncatus*, at Isla del Coco, Costa Rica. *Aquatic Mammals* 17: 148-151.

In press

Accepted

In review

- Hanuscin, D., Donovan, D., Acevedo-Gutiérrez, A., Borda, E., DeBari, S., Melton, J., Le, T., Morrison, W., & Ronca, R. Supporting the professional development of teacher educators through shadowing. Submitted to *International Journal of Science and Mathematics Education*.
- Nelson, B. W., Pearson, S. F., Anderson, J. H., Jeffries, S., Thomas, A. C., Acevedo-Gutiérrez, A., Kemp, I. M., Lance, M. M., Louden, A. & Voelker, M. R.² Variation in predator diet and prey size affects perceived impacts to salmon species of high conservation concern. *Canadian Journal of Fisheries and Aquatic Sciences*.
- Thomas, A. C., Deagle, B., Nordstrom, C., Majewski, S., Nelson, B. W., Acevedo-Gutiérrez, A., Jeffries, S., Moore, J., Louden, A., Allegue, H., Pearson, S., Schmidt, M. & Trites, A. Harbour seal DNA metabarcoding diet data of the Salish Sea. Submitted to *Scientific Data*.

In preparation

- Amundin, M., Carlström, J., Thomas, L., Carlén, I., Koblitz, J.C., Teilmann, J., Tougaard, J., Tregenza, N., Wennerberg, D., Loisa, O., Brundiers, K., Kosecka, M., Kyhn, L.A., Tiberi Ljungqvist, C., Sveegaard, S., Burt, M.L., Pawliczka, I., Jussi, I., Koza, R., Arciszewski, B., Galatius, A., Jabbusch, M., Laaksonlaita, J., Lyytinen, S., Niemi, J., Šaškov, A., Yermakovs, V., MacAuley, J., Wright, A., Gallus, A., Benke, H., Blankett, P., Skóra, K.E., Dähne, M., & Acevedo-Gutierrez, A. Estimating the abundance of the critically endangered Baltic Proper harbour porpoise (*Phocoena phocoena*) population using passive acoustic monitoring. To be submitted to *PLoS Biology*.
- Guilford, N.², Schwarz, D. Thomas, A. & Acevedo-Gutiérrez, A. Non-invasive tracking of individuals: molecular identification and diet analysis from scat. To be submitted to *Molecular Ecology Resources*.

GRANTS

Principal or Co-Principal Investigator:

-Predation of invasive European green crabs (Carcinus maenas) by river otters (Lontra canadensis) on the lower Wa'atch River and Tsoo-Yess rivers, Washington.

2020-2021 Funded by Conservation, Research & Education Opportunities International. (co-PI). **\$5,000.** With A. Akmajian.

-Predation of invasive European green crabs (Carcinus maenas) by river otters (Lontra canadensis) on the lower Wa'atch River and Tsoo-Yess rivers, Washington.

2020 Funded by North Pacific Coast Marine Resources Committee. (co-PI). **\$20,250.** With B. Buzzell.

-Determining local sex ratios and sex-specific predation by harbor seals in the Salish Sea of Washington State.

2020-2021 Funded by Salish Sea Marine Survival Project. (co-PI). **\$31,944.** With D. Schwarz and A. Thomas.

-Using molecular scatology to determine winter and spring pinniped predation on Chinook salmon in northwest Washington: implications for salmon recovery, fisheries management, and endangered Southern Resident Killer Whales

2020-2022 Funded by Washington Sea Grant. (co-PI). **\$159,611.** With A. Akmajian and D. Schwarz.

-Foraging specialization in harbor seals

2020 Publication funded by Res. and Sponsored Progr., WWU. (PI). \$1,800. With D. Schwarz.

2018 Publication funded by Res. and Sponsored Progr., WWU. (co-PI). \$1,560. With D. Schwarz.

2017 Funded by Long Live The Kings. (PI). **\$12,355.** With D. Schwarz.

2017 Funded by Research and Sponsored Programs, WWU. (PI). \$1000.

2016 Funded by Long Live The Kings. (PI). **\$20,407.** With D. Schwarz.

2013 Funded by Research and Sponsored Programs, WWU. (PI). \$24,123. With D. Schwarz.

2012-2013 Funded by Research and Sponsored Programs, WWU. (PI). \$1,000. With D. Schwarz.

-Influence of human exposure on the anti-predatory response of harbor seals.

2017 Publication funded by Research and Sponsored Programs, WWU. (PI). \$527.

-22nd Biennial Conference on the Biology of Marine Mammals.

2017 Funded by College of Science and Engineering, WWU. (PI). \$1,800.

-Quantitative classification of harbor seal breeding calls in Georgia Strait, Canada.

2016 Publication funded by Research and Sponsored Programs, WWU. (PI). \$720.

-A spatially explicit ecosystem model for quantifying marine mammal impacts on Chinook salmon in the Northeast Pacific Ocean.

2014-2016 Funded by Pacific Salmon Commission. (co-PI). **\$242,000.** With I. Kaplan, E. Ward, and others.

-2014 Workshop of the Static Acoustic Monitoring of the Baltic Sea Harbour Porpoise.

2014 Funded by College of Science and Engineering, WWU. (PI). \$2,200.

2014 Funded by Research and Sponsored Programs, WWU. (PI). \$1,000.

-Response of seals to increased rockfish density.

2013 Publication funded by Research and Sponsored Programs, WWU. (PI). \$705.

2006-2012 Funded by National Science Foundation OCE-0550443. (PI). **\$720,000.**

2005-2007 Funded by M. J. Murdock Charitable Trust. (PI). **\$14,000.**

2004-2005 Funded by Bureau for Faculty Research, WWU. (PI). \$3,000.

2004 Funded by Bureau for Faculty Research, WWU. (PI). \$650.

2003 Funded by Bureau for Faculty Research, WWU. (PI). \$25,044.

-Tropical Marine Biology Summer Course.

2012 Funded by Center for International Studies, WWU. (co-PI). \$1,500. With B. Miner, D. Donovan.

- Interactions between humans and harbor seals in Bellingham, WA.*
2011 Publication funded by Research and Sponsored Programs, WWU. (PI). \$435.
- Interactions between tourists and New Zealand fur seals.*
2011 Publication funded by Research and Sponsored Programs, WWU. (PI). \$750.
- Tropical Marine Biology Summer Course.*
2010 Funded by Center for International Studies, WWU. (co-PI). \$1,500. With B. Miner, D. Donovan.
- Catalysts for reform: a university-schools partnership in northwest Washington.*
2003-2007 Funded by National Science Foundation DGE-0338354. (co-PI). **\$1,868,627**. With S. Linneman, G. Muller-Parker.
- Social interactions between two dolphin species.*
2003-2004 Funded by Earthwatch Institute. (PI). **\$13,700**. With S. Caballero.
2003-2004 Funded by Bureau for Faculty Research, WWU. (PI). \$5,000.
- Developing Science Education 390 at Shannon Point Marine Center.*
2004 Funded by Bureau for Faculty Research, WWU. (PI). \$5,000.
- Determination of fin whale residency patterns to prioritize conservation areas in the Gulf of California.*
2000-2001 Funded by UC MEXUS-CONACYT. (co-PI). **\$24,650**. With D. Croll. B. Tershy, J. Urbán.
- Group hunting in dusky dolphins: Mechanisms and benefits of regulating group size.*
1998 Funded by MacGillivray Freeman Films. (co-PI). **\$22,000**. With K. Dudzinski, B. Würsig.
- Foraging ecology of bottlenose dolphins, sharks and seabirds at Isla del Coco.*
1994 Funded by Embassy of The Netherlands in Costa Rica. (PI). **\$2,500**.
1990 Funded by American Museum of Natural History. (PI). **\$1,500**.
1990 Funded by Cetacean Society International. (PI). **\$500**.
- Ecology of bottlenose dolphins in Golfo Dulce.*
1991 Funded by Center for Field Research. (PI). **\$65,500**. With J. Packard, B. Würsig.
- Behavior and movements of bottlenose dolphins in La Paz, México.*
1985 Funded by CONACYT, México. (PI). **\$400,000 MEX**.

Senior Personnel (assisted in proposal development and project conduction)

- Importance of rockfish, lingcod and other bottomfish in the diet of harbor seals in the San Juan Islands.*
2004-2005 Funded by SeaDoc Society. PIs: S. Jeffries, M. Lance.
- North Cascades and Olympic Science Partnership.*
2003-2008 Funded by National Science Foundation. PIs: G. Nelson *et al.*
- Dolphins as a vehicle to teach science.*
2000 Funded by National Science Foundation. PI: MacGillivray Freeman Films.
- Foraging ecology and low-frequency vocalizations in rorqual whales.*
1998-2000 Funded by Office of Naval Research. PIs: D. Croll, B. Tershy.

REFEREED SCIENTIFIC PRESENTATIONS (out of 58)

- 2017 **Wachtendonk, R.¹, Matthews, E.¹** & Acevedo-Gutiérrez, A. Are there rogue harbor seals in Whatcom Creek? The potential impact of harbor seals on a local salmon hatchery. 22nd Biennial Conference on the Biology of Marine Mammals, Halifax, Canada. October.
- 2017 Acevedo-Gutiérrez, A., **Spitzer, S.¹**, Thomas, A. C., **Kohnert, C.²** & Schwarz, D. Molecular techniques reveal that male harbor seals have a larger negative impact on salmonids than females. 22nd Biennial Conference on the Biology of Marine Mammals, Halifax, Canada. October.
- 2016 Fernández-Martín, E. M., Schramm, Y., Heckel, G., Acevedo-Gutiérrez, A., García-Aguilar, M. C., Torres de la Riva, G. & Trujillo-Ortiz, A. 2016. Fenología de los nacimientos de la foca común, *Phoca vitulina richardii*, en México. XXXV Reunión Internacional para el Estudio de los Mamíferos Marinos, La Paz, Mexico. May.

- 2015 **Nikolich, K. A.**², Frouin-Mouy, H. & Acevedo-Gutiérrez, A. The temporal patterns of the breeding calls of harbour seals in Georgia Strait, Canada. 21st Biennial Conference on the Biology of Marine Mammals, San Francisco, USA. December.
- 2015 **D'Agnese, E.**², Lambourn, D., Huber, H., Jeffries, S. J. & Acevedo-Gutiérrez, A. The effects of maternal traits on rearing success in Pacific harbor seals (*Phoca vitulina richardsii*). 21st Biennial Conference on the Biology of Marine Mammals, San Francisco, USA. December.
- 2015 **Nikolich, K. A.**², Frouin-Mouy, H. & Acevedo-Gutiérrez, A. The temporal patterns of the breeding calls of harbour seals in Georgia Strait, Canada. 52nd Annual Conference of the Animal Behavior Society, Anchorage, USA. June.
- 2014 **Rothstein, A. P.**², Thomas, A., **Keates, T.**¹, **Kohnert, C.**¹, Majewski, S., Acevedo-Gutiérrez, A. & Schwarz, D. A non-invasive method for genetic re-sampling of harbor seals (*Phoca vitulina*) as a model for marine mammals research. 2nd North America Congress for Conservation Biology, Missoula, USA. July.
- 2012 Bromaghin, J. F., Lance, M. M., Elliot, E. W., Jeffries, S. J., Kennish, J. M. & Acevedo-Gutiérrez, A. Estimating mean predator diet composition using fatty acid data. Alaska Marine Science Symposium, Anchorage, USA. January.
- 2011 Douglas, A. B., Alpízar, F. G., Acevedo-Gutiérrez, A., Mahaffy, S. D., Baird, R. W. & Calambokidis, J. False killer whales show fidelity to Costa Rican waters. 19th Biennial Conference on the Biology of Marine Mammals, Tampa, USA. November.
- 2011 Bromaghin, J. F., Lance, M. M., Elliot, E. W., Jeffries, S. J., Kennish, J. M. & Acevedo-Gutiérrez, A. Estimating mean predator diet composition using fatty acid signature data. 18th Wildlife Conference of the Wildlife Society, Waikoloa, USA. November.
- 2011 Lance, M. M., Chang, W.-Y., Jeffries, S. J. & Acevedo-Gutiérrez, A. Seasonal and spatial variation in harbor seal (*Phoca vitulina*) diet in the San Juan Islands. Salish Sea Ecosystem Conference, Vancouver, Canada. October.
- 2011 **Thomas, A.**², Lance, M. M., Jeffries, S. J. Miner, B. & Acevedo-Gutiérrez, A. 2011. Harbor seal foraging response to seasonal resource pulse, spawning Pacific herring. Salish Sea Ecosystem Conference, Vancouver, Canada. October. *Best Student Presentation*.
- 2011 Lance, M. M., Jeffries, S. J., Chang, W.-Y., Elliot, E. W., Bromaghin, J. F., Kennish, J. M. & Acevedo-Gutiérrez, A. Seal and sea lion predation on rockfish in Puget Sound. Rockfish Recovery in the Salish Sea: Research and Management Priorities Workshop, NOAA, Seattle, USA. June.
- 2010 Ward, E. J., Levin, P. & Acevedo, A. Utilizing hierarchical models of individual movement to construct maps of spatial predation risk. 95th Ecological Society of America Annual Meeting, Pittsburgh, USA. August.
- 2010 Acevedo-Gutiérrez, A., Acevedo, L. & Boren, L. Managing interactions between tourists and marine mammals: an example with New Zealand fur seals. New Zealand Marine Sciences Society Conference, Wellington, NZ. July.
- 2010 **Thomas, A.**², Lance, M. M., Jeffries, S. J., & Acevedo-Gutiérrez, A. Selective foraging by harbor seals (*Phoca vitulina*): the importance of herring spawning and holding aggregations. Ocean Sciences Meeting, Portland, USA. February.
- 2009 **Howard, S.**², Lance, M. M., Jeffries, S. J. & Acevedo-Gutiérrez, A. Using seasonal variation in individual energetic requirements to simulate energy use in a population of harbor seals (*Phoca vitulina*). 18th Biennial Conference on the Biology of Marine Mammals, Quebec, Canada. October.
- 2009 **McFarland, S. A.**², Lance, M. M., Jeffries, S. J., London, J. M. & Acevedo-Gutiérrez, A. Influence of sex and body mass on harbor seal (*Phoca vitulina*) diving behavior. 18th Biennial Conference on the Biology of Marine Mammals, Quebec, Canada. October.
- 2009 **Thomas, A.**², Lance, M. M., Jeffries, S. J., & Acevedo-Gutiérrez, A. Selective foraging by harbor seals (*Phoca vitulina*): the importance of herring spawning and holding aggregations. 18th Biennial Conference on the Biology of Marine Mammals, Quebec, Canada. October.

- 2009 **Peterson, S.²**, Lance, M. M., Jeffries, S. J., Olesiuk, P. F. & Acevedo-Gutiérrez, A. Movements and home ranges of harbor seals (*Phoca vitulina*) in the inland waters of the Pacific Northwest. 18th Biennial Conference on the Biology of Marine Mammals, Quebec, Canada. October.
- 2009 **Reuland, K.², Thomas, A.², Peterson, S.²**, Lance, M., Jeffries, S. & Acevedo-Gutiérrez, A. Size of harbor seal foraging regions relative to haul-out site, season, and home range in the Pacific NW. 18th Biennial Conference on the Biology of Marine Mammals, Quebec, Canada. October.
- 2009 Cate J., Acevedo, L., Boren, L. & Acevedo, A. Jungle seals: a behavioral study of the New Zealand fur seal. University of Canterbury Symposium, Christchurch, New Zealand. September.
- 2008 **Peterson, M.², Hardee, S.²**, Linneman, S. & Acevedo-Gutiérrez, A. Integrating novel approaches to classroom structure with local ocean-science models. Ocean Sciences Meeting, Orlando, USA. March.
- 2008 **Hardee, S.², Reuland, K.²**, Lance, M., Jeffries, S., Olesiuk, P. & Acevedo-Gutiérrez, A. Harbor seal movements and hot-spots in the Georgia Basin revealed through the use of satellite-telemetry. Ocean Sciences Meeting, Orlando, USA. March. *Outstanding Student Award*.
- 2008 **Reuland, K.², Hardee, S.²**, Lance, M., Jeffries, S. & Acevedo-Gutiérrez, A. Habitat characteristics of harbor seal (*Phoca vitulina*) foraging locations in the Georgia Basin. Ocean Sciences Meeting, Orlando, USA. March.
- 2006 **Myhre, S.¹** & Acevedo-Gutiérrez, A. Effects of recovering populations of the sea urchin *Diadema antillarum* on coral recovery and benthic community structure, Caribbean Costa Rica. Ocean Sciences Meeting, Honolulu, USA. February.
- 2005 Acevedo-Gutiérrez, A. & **Matthews, A.¹** Association patterns of bottlenose dolphins in Costa Rica: constant companions and casual acquaintances. 16th Biennial Conference on the Biology of Marine Mammals, San Diego, USA. December.
- 2005 **Banks, A.²** & Acevedo-Gutiérrez, A. Aggregative response of harbor seals to prey density at small spatial scales within a candidate marine reserve. 16th Biennial Conference on the Biology of Marine Mammals, San Diego, USA. December.
- 2005 **Johnson, A.¹** & Acevedo-Gutiérrez, A. Marine regulation compliance and harbor seal disturbance at Yellow Island, Washington. 16th Biennial Conference on the Biology of Marine Mammals, San Diego, USA. December.
- 2005 Urbán, J., Mate, B., Jaume, S., Díaz, C., Tershy, B., Acevedo-Gutiérrez, A., & Croll, D. Determination and characterization of fin whale habitat in the Gulf of California. 16th Biennial Conference on the Biology of Marine Mammals, San Diego, USA. December.
- 2005 Harwood, A., Moulds, L., Greer-Courier, D., Acevedo-Gutiérrez, A., Tyran, K., Pappas, J. & McLeod, M. Bridging the gap between theory and practice: programs to build faculty finesse. Western Region Campus Compact Consortium's Eighth Annual 'Continuums of Service' Conference. Portland, USA. April.
- 2003 Acevedo-Gutiérrez, A., Croll, D., Tershy, B., Newton, K. & Urbán-Ramírez, J. Foraging dives of fin whales: are they time- or energy-maximizers? 15th Biennial Conference on the Biology of Marine Mammals, Greensboro, USA. December.
- 2002 Urbán, J., Mate, B., Bérubé, M., Acevedo, A., Jaume, S., Tershy, B. & Croll, D. Fin whales in the Gulf of California: a resident and isolated population. IV Congress of the Latin-American Society of Specialists in Aquatic Mammals, Valdivia, Chile. October.

INVITED SEMINARS AND GUEST LECTURES (out of 38)

- 2017 “Social behavior of bottlenose dolphins and foraging ecology of harbor seals: the importance of the individual”. University of Dalhousie—Festschrift Symposium Honoring Bernd Würsig, Halifax, Canada. October.
- 2017 “Sex matters: male harbor seals have a larger impact on salmon than female harbor seals”. Western Washington University, Bellingham, USA. May. With D. Schwarz.

- 2017 “Sistemas de apareamiento de mamíferos marinos”. Western Washington University—
Escuchando entendemos: pláticas de la comunidad, Bellingham, USA. February.
- 2013 “The foraging ecology of harbor seals (*Phoca vitulina*) in the Salish Sea”. Walla Walla University,
Rosario Beach Marine Laboratory, USA. August.
- 2012 “The life of a marine predator: conservation implications of studying the harbor seal (*Phoca
vitulina*)”. Western Washington University, Bellingham, USA. September.
- 2012 “Marine mammals: harbor seals and killer whales in the Salish Sea”. Western Washington
University—Oceans class, Bellingham, USA. May.
- 2012 “The foraging ecology of harbor seals in Padilla Bay”. Padilla Bay National Estuarine Research
Reserve, Mount Vernon, USA. February.
- 2010 “Seals in the woods: what would you do? An example from New Zealand to manage tourism”.
Western Washington University, Bellingham, USA. January.
- 2009 “Voluntary compliance of tourists: the case of the New Zealand fur seal”. Eckerd College—
Marine Mammal class, Kaikoura, NZ. January 2009.
- 2006 “Marine community interactions: lessons from coastal systems”. Western Washington University,
Bellingham, USA. September.
- 2006 “Foraging ecology of marine predators: lessons from dolphins and seals”. Skagit Valley
Community College, Mount Vernon, USA. February.
- 2003 “Life after school: what and how?” Keynote Speaker Student Workshop-15th Biennial Conference
on the Biology of Marine Mammals, Greensboro, USA. December.
- 2003 “Foraging costs of marine predators: interspecific contests in bottlenose dolphins and lunging
behavior in blue whales”. Northwest Fisheries Science Center, Seattle, USA. April.
- 2003 “Foraging ecology of marine predators: lessons from dolphins”. Shannon Point Marine Center,
Anacortes, USA. February.
- 2002 “Dolphins”. Instituto Tecnológico y de Estudios Superiores de Monterrey, Monterrey, México.
November. (In Spanish).
- 2002 “High Foraging ecology of marine predators: lessons from whales and dolphins”. Universidad
Autónoma de Nuevo León, Monterrey, México. November. (In Spanish).
- 2002 “High feeding costs limit dive time in the largest whales”. Universidad Autónoma de Baja
California Sur, La Paz, México. June. (In Spanish).

NON-REFEREED REPORTS (out of 33)

- 2018 Acevedo-Gutiérrez, A. & Schwarz, D. Foraging specialization in harbor seals and salmon
recovery. Final Report to Long Live The Kings, Seattle, USA. pp 5.
- 2018 Acevedo-Gutiérrez, A. Individual foraging specialization in harbor seals and salmon recovery.
Annual Report to National Marine Fisheries Service, NOAA Fisheries, Silver Spring, USA. pp 4.
- 2017 Acevedo-Gutiérrez, A. & Schwarz, D. Foraging specialization in harbor seals. Progress Report to
Long Live The Kings, Seattle, USA. pp 4.
- 2017 Acevedo-Gutiérrez, A. Individual foraging specialization in harbor seals and salmon recovery.
Annual Report to National Marine Fisheries Service, NOAA Fisheries, Silver Spring, USA. pp 4.
- 2016 Acevedo-Gutiérrez, A. & Schwarz, D. Feasibility and initial collection of harbor seal scat in the
inland waters of Whidbey Island. Final Report to Long Live The Kings, Seattle, USA. pp 5.
- 2016 Acevedo-Gutiérrez, A. Individual foraging specialization in harbor seals and salmon recovery.
Annual Report to National Marine Fisheries Service, NOAA Fisheries, Silver Spring, USA. pp 16.
- 2015 Acevedo-Gutiérrez, A. Individual foraging specialization in harbor seals and salmon recovery.
Annual Report to National Marine Fisheries Service, NOAA Fisheries, Silver Spring, USA. pp 2.
- 2013 Lance, M., Buzzell, B. & Acevedo-Gutiérrez, A. Spatial and temporal variation in river otter
(*Lontra canadensis*) diet and predation on threatened fish species in the San Juan Islands,
Washington. Preliminary Report to NOAA/NMFS, Northwest Region, Eastsound, USA. pp 16.

- 2012 Acevedo-Gutiérrez, A. 2012. RUI: Responses of seals and sea lions to increased rockfish density. Final Report to NSF for Award 0550443, Washington, USA. pp 41.
- 2012 Lance, M., Jeffries, S., Buzzell, B. & Acevedo-Gutiérrez, A. Spatial and temporal variation in river otter (*Lontra canadensis*) diet and predation on threatened fish species in the San Juan Islands, Washington. Semi-Annual Report to SeaDoc Society, Eastsound, USA. pp 4.
- 2009 Acevedo-Gutiérrez, A. Sabbatical report. Final Report to Western Washington University, Bellingham, USA. pp 11.
- 2009 Boren, L, Acevedo, L., Muller, C. G. & Acevedo-Gutiérrez, A. New Zealand fur seal pups at the Ohau Point colony, Kaikoura 2008/2009: numbers, weight, and condition. Progress Report to Department of Conservation, Kaikoura, New Zealand. pp 6.
- 2006 Johnson, A. & Acevedo-Gutiérrez, A. Regulation compliance and harbor seal (*Phoca vitulina*) disturbance. Final Report to The Nature Conservancy, Seattle, USA. pp 22.
- 2006 Myhre, S. & Acevedo Gutiérrez, A. Effects of the sea urchin *Diadema antillarum* on coral recovery and benthic community structure, Caribbean Costa Rica. Final Report to Ministerio del Ambiente y Energía, San José, Costa Rica. pp 17.
- 2004 Myhre, S. & Acevedo Gutiérrez, A. Species inventory and conservation implications for the near-shore coral reefs of Gandoca-Manzanillo Wildlife Refuge, Costa Rica. Final Report under Resolución # 246-2003-OAFU, Ministerio del Ambiente y Energía, San José, Costa Rica. pp 17.
- 2002 Tershy, B. R., Urbán Ramírez, J., Acevedo Gutiérrez, A. & Croll, D. Determination of fin whale residency patterns in order to prioritize conservation areas in the Gulf of California. Report to UC-MEXUS. pp 14.

SERVICE

WESTERN WASHINGTON UNIVERSITY

Department Committees

Chair

- 2016-present Advising Committee. Department of Biology.
- 2018-2020 Mentor Team, Dr. Arellano. Department of Biology.
- 2016-2020 Core Competencies ad-hoc Committee. Department of Biology.
- 2015 Core Competencies ad-hoc Committee. Department of Biology.
- 2009-2015 BIOL206 Lab Oversight Committee. Department of Biology.
- 2009-2015 Scholarship Awards Committee. Department of Biology.
- 2011-2012 Marine Biologist Search Committee. Department of Biology.
- 2009-2010 Limited-term Lecturers Committee. Department of Biology.
- 2005-2008 Scholarship Awards Committee. Department of Biology.
- 2008 Program Coordinator Search Committee. Department of Biology.

Member

- 2018-present Executive Committee. Department of Biology.
- 2018-present Scholarships Committee. SMATE Program.
- 2018-2019 Graduate Program Committee. Department of Biology.
- 2016-2020 Mentor Team, Dr. Pollard. Department of Biology.
- 2016-2018 Budget Committee. Department of Biology.
- 2016-2017 Mentor Team, Dr. Kodner. Department of Biology.
- 2014-2015 Assessment Committee. Department of Biology.
- 2014-2015 Search Committee for Operations Manager. SMATE Program.
- 2013-2015 SCED 480/490 Working Group. SMATE Program.
- 2010-2015 Undergraduate Curriculum, Advising and Support Committee. Department of Biology.
- 2012-2013 Mentor Team, Dr. Kodner. Department of Biology.

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| 2009-2012 | Mentor Team, Dr. Brodhagen. Department of Biology. |
| 2009-2011 | Mentor Team, Dr. Van Epps. Department of Biology. |
| 2008-2009 | BIOL204 Curriculum Review Committee. Department of Biology. |
| 2008-2009 | BIOL206 Curriculum Review Committee. Department of Biology. |
| 2004-2008 | Scheduling Committee. Department of Biology. |
| 2002-2008 | Undergraduate Curriculum, Advising and Support Committee. Department of Biology. |
| 2006-2007 | Assessment and Outcomes Committee. Department of Biology. |
| 2007 | Office Assistant Search Committee. Department of Biology. |
| 2003-2005 | Scholarship Awards Committee. Department of Biology. |
| 2005 | SIT Supervisor Search Committee. Department of Biology. |
| 2003-2004 | Department Chair Search Committee. Department of Biology. |
| 2003-2004 | Scholarships Committee. SMATE Program. |

College Committees

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| 2018-present | Shannon Point Marine Center Boating Safety Board. |
| 2016-present | Curriculum and Assessment Committee. College of Science & Engineering. |
| 2018-2019 | Search Committee for SMATE/Chemistry faculty. College of Science & Engineering. |
| 2016-2017 | Search Committee for SMATE/Computer Science faculty. College of Science & Engineering. |
| 2014-2015 | Strategic Planning Committee Task Force. College of Science & Engineering. |
| 2009-2015 | Policy, Planning and Budget Council. College of Science & Engineering. |
| 2011 | Search Committee for College Dean. College of Sciences & Technology. |

University Committees

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|--------------|--|
| 2017-present | Teacher Education and Academic Departments Commission. |
| 2018-2019 | Search Committee for SMATE Director. Colleges of Science & Engineering and Woodring. |
| 2013-2015 | Teacher Education and Academic Departments Commission. |
| 2012-2015 | One World Curriculum Committee. |
| 2009-2015 | Teaching Curricula Certification Council. |
| 2009-2010 | Secretary of the WWU Chapter of Sigma-Xi Scientific Research Society. |
| 2010 | Diversity Initiative Task Force. |
| 2005-2008 | President-Elect of the WWU Chapter of Sigma-Xi Scientific Research Society. |
| 2003-2005 | President of the WWU Chapter of Sigma-Xi Scientific Research Society. |
| 2003-2005 | Scholar's Week Committee Member. |

Department-Wide Student Support

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| 2012 | Open Research Lab, Back to Bellingham Biology Open House. |
| 2006-2010 | Advisor, Biology Club. |

University-Wide Support

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| 2018 | Judge, Graduate Student Symposium. |
| 2017-2018 | Judge, Scholar's Week Poster Session. |
| 2010-2015 | Judge, Scholar's Week Poster Session. |
| 2011 | Faculty participant, Latino Student Union Networking Night. |
| 2010 | Faculty presenter, Career Fair-Migrant Youth Leadership Conference. |
| 2010 | Faculty presenter, Discovery Days, Office of Admissions. |
| 2005-2008 | Organizer, Sigma-Xi/College of Science & Technology Scholar's Week Poster Session. |
| 2008 | Faculty presenter, Discovery Days, Office of Admissions. |
| 2004 | Organizer, Sigma-Xi Scholar's Week Poster Session. |
| 2003 | Faculty presenter, Classroom Visit Program, Office of Admissions. |
| 2003 | Faculty presenter, New Faculty Orientation Workshop. |
| 2002 | Faculty presenter, Transfers Advisers Workshop, Office of Admissions. October 2002. |

Invited and Hosted Seminar Speakers

- 2016 K. Wilson, “Integrating technology with mathematics, ecology, and social science: a holistic approach to marine mammal conservation in the US”, National Oceanic and Atmospheric Administration, Seattle, USA. October.
- 2015 A. Thomas, “From DNA to satellites – Using new technology to quantify interactions between seals and salmon”, University of British Columbia, Vancouver, Canada. March 2015.
- 2014 J. Weir, “Play, learn, grow: infant development in the two largest lemurs”, University of Victoria, Victoria, Canada. November.
- 2012 E. Ward, “Challenges and complexities of managing multiple species in the Puget Sound region”, National Marine Fisheries Service, Seattle, USA. May.
- 2012 S. Myhre, “Reconstructing seafloor ecology through past events of rapid climate change”, University of California, Davis, USA. February.
- 2008 A. Williams, “An African-American’s journey from manure to DNA”, Princeton University, Princeton, USA. May.
- 2007 C. S. Larsen, “Skeletons in our closet: revealing our past through bioarchaeology”, The Ohio State University, Columbus, USA. May.
- 2006 G. Orians, “Industrial development and Alaska's North Slope environment”, University of Washington, Seattle, USA. May. University-wide talk.
- 2005 J. Ortega-Ortiz, “Habitat characterization of sperm whales in the Gulf of Mexico”, Oregon State University, Newport, USA. October.
- 2005 R. W. Baird, “Real killer whales don’t eat fish: behavioral ecology of transient killer whales”, Cascadia Research Collective, Olympia, USA. April.
- 2005 D. R. Montgomery, “King of fish: the thousand-year run of salmon”, University of Washington, Seattle, USA. May. University-wide talk.
- 2004 C. Langmuir, “Is intelligent life a natural consequence of planetary evolution?”, Harvard University, Cambridge, USA. May. University-wide talk.
- 2004 M. Wainstein, “Ecology and conservation of the Juan Fernández Islands, Chile”, University of Washington, Seattle, USA. May.
- 2003 P. Levin, “Community wide-effects of exotic species: from seas to summits”, Northwest Fisheries Science Center, Seattle, USA. January.

Field Trips and Workshops for Science Teachers

- 2008 Co-Instructor: *Physics for Everyday Thinking*, North Cascades and Olympic Science Partnership Summer Academy, August. With B. Smith *et al.*
- 2006 Co-Instructor: *Earth Sciences for Elementary Teachers*, North Cascades and Olympic Science Partnership Summer Academy, August. With B. Dougan *et al.*
- 2005 Instructor: *Investigating the Flow of Matter and Energy in Living Systems*, North Cascades and Olympic Science Partnership Summer Academy, August. With B. Hogan *et al.*
- 2004 Co-instructor: *Physics for Elementary Teachers*, North Cascades and Olympic Science Partnership Summer Academy, August. With A. Boudreaux *et al.*
- 2003 Co-Leader, *Workshop for Washington Science Teachers Association Spring Conference*, Shannon Point Marine Center, April. With D. Donovan.

PROFESSION

Panelist

- 2016 National Science Foundation
- 2005 National Science Foundation
- 2005 NOAA: National Undersea Research Program.
- 2003 Harbor Branch Oceanographic Institution: Protect Wild Dolphin Program.

Reviewer (number of reviews)

Journals

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| Acta Ethologica (1) | Animal Behaviour (1) |
| Aquatic Biology (2) | Aquatic Conservation: Marine and Freshwater Ecosystems (2) |
| Aquatic Mammals (9) | Behavioral Ecology and Sociobiology (3) |
| Behavioral Processes (1) | Biological Conservation (1) |
| Biota Neotropica (2) | Bulletin of Marine Science (1) |
| Canadian Journal of Zoology (4) | Ciencias Marinas (1) |
| Ecological Applications (1) | Endangered Species Research (2) |
| Estuarine, Coastal and Shelf Science (1) | Journal of Ecotourism (1) |
| Journal of Mammalogy (3) | Journal of Natural Resources and Life Sciences Education (1) |
| Journal of the Marine Biological Association of the United Kingdom (1) | Latin American Journal of Aquatic Mammals (2) |
| Journal of Theoretical Biology (2) | Marine Biology (2) |
| Marine Biodiversity Records (2) | Marine Mammal Science (17) |
| Marine Ecology Progress Series (18) | Northwestern Naturalist (5) |
| Marine Ornithology (1) | Peer J (2) |
| Northwest Science (1) | Proceedings Royal Society B (3) |
| Polar Research (1) | Revista de Biología Marina y Oceanografía (1) |
| Public Library of Science ONE (9) | Science (2) |
| Revista de Biología Tropical (5) | The Southwestern Naturalist (1) |
| Scientia Marina (1) | Tourism Management (1) |
| Sustainability (1) | |

Proposals

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| Earthwatch Institute (3) | Harbor Branch Oceanographic Institution (1) |
| National Fish and Wildlife Foundation (1) | National Geographic Society (1) |
| National Science Foundation (25) | Natural Environment Research Council (1) |
| Northwest Fisheries Science Center (1) | Oregon Sea Grant (1) |

Abstracts for Conferences

| | |
|------|--|
| 2012 | Sociedad Mexicana de Mastozoología Marina: XXXV Conference on Marine Mammals. (4) |
| 2012 | Sociedad Mexicana de Mastozoología Marina: XXXII Conference on Marine Mammals. (9) |
| 2011 | Society for Marine Mammalogy: 19 th Biennial Conference on Marine Mammals. (17) |
| 2005 | Society for Marine Mammalogy: 16 th Biennial Conference on Marine Mammals. (20) |
| 2003 | Society for Marine Mammalogy: 15 th Biennial Conference on Marine Mammals. (14) |
| 1999 | Society for Marine Mammalogy: 13 th Biennial Conference on Marine Mammals. (10) |
| 1998 | Society for Marine Mammalogy: 12 th Biennial Conference on Marine Mammals. (10) |

Books/Reports

| | |
|------|---|
| 2020 | Marine Mammals of the Baltic Sea, Springer Nature. |
| 2020 | Pacific harbor seal. <i>In</i> : Ecology and Conservation of :Pinnipeds in Latin America, Springer Nature (book chapter). |
| 2006 | Sound Science: Synthesizing Ecological and Socio-Economic Information about the Puget Sound Ecosystem. Puget Sound Partnership. |
| 2006 | Bahía de los Ángeles: Recursos Naturales y Comunidad. San Diego Natural History Museum. |

Other

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| 2019 | Ecology and Conservation of :Pinnipeds in Latin America. Springer Nature (book proposal). |
| 2012 | California Current Integrated Ecosystem Assessment. |
| 2011 | Lawrence Hall of Science, University of California Berkeley. (Reviewed curriculum). |
| 2009 | NSF Annual Merit Review. |
| 2008 | GRE Subject Biology Test, Educational Testing Service. (Developed and reviewed questions.) |
| 2007 | GRE Subject Biology Test, Educational Testing Service. (Developed and reviewed questions.) |

Member of Committees

- 2019-present Puget Sound Ecosystem Monitoring Program Marine Mammal Working Group.
- 2016-present The Next Generation STEM Teacher Preparation in Washington State Diversity Working Group.

Invited Workshops

- 2019 “Synthesizing scientific knowledge about population dynamics and diet preferences of harbor seals, Steller sea lions and California sea lions, and their impacts on salmon in the Salish Sea”. Washington Department of Fish and Wildlife and Department of Fisheries and Oceans Canada, Bellingham, USA. November.

External Reviews

- 2019 Tenure and promotion review of an Assistant Professor at Oregon State University.

Member of External Graduate Committees

- Eva María Fernández Martín. 2018. Fenología de los nacimientos, estado de salud de las crías, y estructura genética poblacional de *Phoca vitulina richardii* en México. Ph.D. thesis, Universidad Autónoma de Baja California, México.
- Jenipher Cate. 2013. The effects of tourism on the behaviour of the New Zealand fur seal (*Arctocephalus forsteri*). Ph.D. thesis, University of Canterbury, New Zealand. External Reviewer.
- Timothy Markowitz. 2004. Social organization of the New Zealand dusky dolphin. Ph.D. thesis, Department of Wildlife & Fisheries Sciences, Texas A&M University, USA.

Session Chair at Refereed Scientific Conferences

- 2017 Habitat and Distribution 6. 22nd Biennial Conf. Biol. of Marine Mammals, Halifax, October.
- 2005 Behavior IV. 16th Biennial Conference on the Biol. of Marine Mammals, San Diego. December.

Judge at Refereed Scientific Conferences

- 2017 Habitat and Distribution 6. 22nd Biennial Conf. Biol. of Marine Mammals, Halifax, October.

Conferences Organized and Hosted by Research Lab

- 2014 18th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.
- 2009 13th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.
- 2006 10th Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Bellingham.

Environmental Policy

- 1997 Costa Rican Marine Mammal Protection Act. Submitted to The Government of Costa Rica, San José, Costa Rica. pp 19. (In Spanish).
- 1997 Regulations for the Protection of Marine Mammals in Costa Rica. Submitted to The Government of Costa Rica, San José, Costa Rica. pp 18. (In Spanish).
- 1994 Regulations for the Protection of Marine Mammals and Seabirds at Isla del Coco, Costa Rica. Submitted to Area de Conservación Marina Isla del Coco, Costa Rica. pp 11. (In Spanish).

Affiliations

- American Association for the Advancement of Science, Member since 1990.
- Society for Marine Mammalogy, Member since 2003.

COMMUNITY

Science Teacher

- Dare2Drean Migrant Youth Workers Summer Biology Academy, Western Washington University, Bellingham, WA. July 2020.
- Susanne Holmes-Webb’s 2nd grade class, Happy Valley Elementary School, Bellingham, WA. Feb-Mar 2020.

Gina Ney's Kindergarten class, Happy Valley Elementary School, Bellingham, WA. Jan-Mar 2018.

High School Student Research Assistants

Orly Linder (2019-2020). Sehome High School.

Harbor seal (Phoca vitulina) foraging behavior and river otter diet (Lontra canadensis).

Ashley Davis (2006). Sehome High School.

Response of harbor seals (Phoca vitulina) to increased fish density.

Carrie Woodward (2006). Sehome High School.

Response of harbor seals (Phoca vitulina) to increased fish density.

Amanda Yocum (2006). Sehome High School.

Response of harbor seals (Phoca vitulina) to increased fish density.

Mentor of High School Senior Exit Projects

Rachel Bottles. Mount Vernon High School, Bellingham, WA. October 2019.

Hannah Cantrell. Hot Springs High School, Hot Springs, SD. April 2015.

Brenna McClellan. Cienega High School, Vail, AZ. September 2014.

Kat Hofer. Medical Lake High School, Medical Lake, WA. April 2012.

Other

- Broadened the participation of underrepresented groups in the science by giving talks and presentations in English and Spanish to >12,000 students, families, and adults on science; 115 have been to schools (Pre-K to 12), mostly public or inner-city, and 101 to museums, businesses, and conservation institutes.
- Advised 10 conservation and scientific organizations in USA and Costa Rica. Wrote and spearheaded the initial draft of the regulations of marine mammals in Costa Rica. National Board of Directors, Museum of Science & Industry, Tampa, USA.
- Advisor and scientist-on-camera in four different educational films, including Telly Award and Silver CINDY Award winner *Marine Science: Exploring the Deep* and Academy-Award nominee and Silver WorldMedal winner *Dolphins*. Guest of 26 media shows, 107 interviews given to local, regional, national and international outlets, including TV, radio, print and internet.