ALEJANDRO ACEVEDO-GUTIERREZ
Western Washington University, Department of Biology, Bellingham, WA 98225-9160
(360) 650-3653, acevedo@biology.wwu.edu; http://myweb.facstaff.wwu.edu/aceveda

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

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.

SCHOLARSHIP

(Outcomes as Western faculty member; **[1]WWU undergraduate student, [2]WWU graduate student**)

REFEREED PUBLICATIONS

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:

In preparation:

Amundin, M., Thomas, L., Carlström, J., 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.

Voelker, M.[2], Schwarz, D., Thomas, A., Nelson, B. & Acevedo-Gutiérrez, A. Cross-sectional scat sampling reveals intrapopulation feeding diversity in a marine predator. To be submitted to Molecular Ecology Progress Series.

GRANTS

Principal or Co-Principal Investigator:

-Individual prey specialization in harbor seals

2017 Funded by Research and Sponsored Programs, WWU. (PI). **$1,000.** With D. Schwarz.
2017 Funded by Long Live The Kings. (PI). **$12,355.** With D. Schwarz.
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.**

-Tropical Marine Biology Summer Course.

2012 Funded by Center for International Studies, Western Washington University. (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, Western Washington University. (co-PI). **$1,500.** With B. Miner, D. Donovan.

-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, Western Washington University. (PI). **$3,000.**
2004 Funded by Bureau for Faculty Research, Western Washington University. (PI). **$650.**
2003 Funded by Bureau for Faculty Research, Western Washington University. (PI). **$25,044.**

-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, Western Washington University. (PI). **$5,000.**

-Developing Science Education 390 at Shannon Point Marine Center.
2004 Funded by Bureau for Faculty Research, Western Washington University. (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: (assist 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 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 Wildife 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 Dalhouise—Fertschrift 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 mamiferos marinos". Western Washington University—Eschuchando 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.

TEACHING

COURSES-WESTERN WASHINGTON UNIVERSITY (most recent)

BIOL101- *Introduction to Biology*. Spring 2003.

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

BIOL206- *Introduction to Organismal Biology*. Spring 2014, 2015, 2017, 2018.

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

BIOL437A- *Tropical Marine Organismal Biology.* Summer 2016. w/D. Donovan, B. Miner, S. Flores.

BIOL437B- *Tropical Marine Ecology.* Summer 2016. w/D. Donovan, B. Miner, S. Flores.

BIOL464- *Biology of Marine Mammals*. Fall 2013, 2016, 2018.

BIOL505- *Current Research in Science*. Fall 2016.

BIOL525- *Research Mentorship*. Winter-Spring 2013; Winter-Spring 2015.

BIOL599- *Seminar in Marine Conservation Biology*. Winter 2004.

BIOL599- *Seminar in Bioethics*. Fall 2007.

SCED203- *Matter and Energy in Life Systems*. Fall 2016, Winter 2018, Spring 2018, Fall 2018.

SCED370- *Science and Society*. Fall 2011, 2012.

SCED480- *Science Methods and Curriculum for the Elementary School*. Winter 2010.

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 Learninc 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 THESES (Department of Biology, Western Washington University)
13 students (average stay: 31.6 ± SD 14.4 months).
Ten peer-reviewed papers.
Fifteen presentations at professional conferences.
Thirty-two presentations at student meetings.

Madelyn Voelker (2016-2018). Current: eDNA Technician, National Forest Service.
Sex-based diet of harbor seals in the Salish Sea. Co-advised with Dr. Dietmar Schwarz.
Results: 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.

Adrianne 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 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.

Erin D'Agnese (2012-2015). Current: Ph.D. student, 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: Data Specialist/Collections Curator, The Whale Museum.
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.

Austen Thomas (2008-2010). Current: Fisheries Biologist, Smith-Root.
(PhD from University of British Columbia.)
Selective foraging by harbor seals: the importance of herring spawning and holding aggregations.

Awards: 2011Best 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 McFarland (2007-2013). After graduation: Fairweather Science.
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.

Kenady Wilson (Reuland) (2006-2008). Current: Wildlife Biologist, 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.

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: Energy Project Analyst, Wash. State Univ. Energy Extension Prog.
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
32 students (average stay: 13.9 ± SD 6.5 months).
Nine peer-reviewed papers.
Five presentations at professional conferences.
Forty-six presentations at student meetings.

Madison McKay (2018-present).
Factors influencing foraging success in harbor seals.

Wyatt Heimbichner Gobble (2018-present).
Seasonal variation of harbor seal occurrence in Bellingham.

McKenna Newmarch (2017-2018). Recent graduate.
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.

Alisa Aist (2017-present).
Human attitudes towards harbor seals in Bellingham, WA.
Results: 2018 22nd Meeting of the Soc. for Marine Mammalogy NW Student Chapter, Newport.
2018 Student Poster Presentation, Scholars' Week, WWU.

Rachel Wachtendonk (2016-2017). Current: Intern, Cascadia Research Collective.
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 Benko (2016-2017). Recent graduate.
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). Current: Research Assist., Joint Inst. Study Atmosphere and Ocean, UW.
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: Research Associate, 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: Research Assistant, Padilla Bay National Estuarine Reserve.
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). Current: MEd student, 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: Nursing School, University of Washington.
Temporal variation in the aggregate response of harbor seals to chum sdalmon 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: Literacy Coach, Washington Reading Corps Program.
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: Lead Biological Technician, Bureau of Land Management.
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: Coach, One Stone, Inc.
Seasonal variation of harbor seal occurrence in Bellingham.

Erin Stehr (2011-2012). Current: Protected Species Observer, Northwest Environmental Consulting.
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: North Pacific Groundifsh Fishery Observer, AIS Inc.
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: PhD student, University of Alaska Fairbanks.
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, Kingston Middle School.
Mapping of seal movements as an educational tool.
Funding: 2008-2009 Washington Space Grant Research Award.

Amanda Bezt (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.

Christopher 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: Student Teacher, Lake Washington School District.
Diet of coastal river otters (Lontra canadensis) in the San Juan Archipelago.

James Soda (2007). Current: Post Doctoral Researcher, University of Notre Dame.
(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: Professional Photographer, Jessica Farrer Photography.
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 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: Research Associate, University of Washington.
(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.

SUPERVISED UNDERGRADUATE STUDENTS

Research Assistants-Department of Biology-Western Washington University
125 students (average stay: 8.7 ± SD 6.4 months).
Direct supervisor: Graduate students, undergraduate students, myself.

2018			Megan Hills
	Amanda Eisenberg	Sam Klassen	Nina-Tuyen Tran
	Jane Schrock	Savannah Smith	Shaelynne Trunk
	Glenna Dyson-Roberts	Ethan Duvall	Helen Krueger
	Madison Bock	Wyatt Heimbichner Gobble	Jenny Hamilton
2017			Sage Pollack (to 2018)
	Logan Kuhn (to 2018)	Michelle Joseph (to 2018)	Mariah Kollasch (to 2018)
	Delany Adams (to 2018)	Madison McKay (to 2018)*	Skyler Elmstrom (to 2018)
	Andy Nutzhorn (to 2018)	Hillary Thalmann (to 2018)	Elizabeth Hanson
	Justin Ridley	Emily Rose	Dane Heggens
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 birs 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

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

Research Assistants-Texas A&M University

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

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.

MEMBER OF GRADUATE THESIS COMMITTEES

Western Washington University- M.Sc. theses, Department of Biology

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.

OTHER TEACHING ACTIVITES

-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 at the California Academy of Sciences.

SERVICE

WESTERN WASHINGTON UNIVERSITY

Department Committees:

Chair

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

Member

2018-present	Executive Committee. Department of Biology.

2018-present Graduate Program Committee. Department of Biology.
2018-present Scholarships Committee. SMATE Program.
2016-present 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.
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:

2018-present Shannon Point Marine Center Boating Safety Committee.
2018-present Search Committee for SMATE/Chemistry faculty. College of Science & Engineering.
2016-present Curriculum and Assessment Committee. 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:

2018-present Search Committee for SMATE Director. Colleges of Science & Engineering and Woodring.
2017-present Transforming Elementary STEM Education Working Group. WWU.
2017-present Teacher Education and Academic Departments Commission.
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:

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

University-Wide Student Support:

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 different reviews):

Journals:

Animal Behaviour (1)
Aquatic Biology (2)
Aquatic Conservation (1)
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)
Journal of Theoretical Biology (2)
Latin American Journal of Aquatic Mammals (1)
Marine Biodiversity Records (2)
Marine Biology (2)
Marine Ecology Progress Series (17)
Marine Mammal Science (17)
Marine Ornithology (1)
Northwestern Naturalist (4)
Northwest Science (1)
Peer J (2)
Polar Research (1)
Proceedings Royal Society B (3)
Public Library of Science ONE (9)
Revista de Biología Marina y Oceanografía (1)
Revista de Biología Tropical (5)
Scientia Marina (1)
The Southwestern Naturalist (1)
Sustainability (1)
Tourism Management (1)

Proposals:

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

Books/Reports:

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:

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 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 Referred 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 Referred 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

Mentor of High School Senior Exit Projects:

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 over 11,808 students and families on science as a career; 111 have been to schools (Pre-K to 12), mostly public or inner-city, and 98 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, 106 interviews given to local, regional, national and international outlets, including TV, radio, print and internet.