

Email: scardenas@csa-upch.org
susana.cardenas.a@upch.pe
Web: scardenas-alayza.com
Cell: +51 999931218

Susana Cárdenas-Alayza, MSc., PhD.

[Ficha CTI Vitae 65339](#)

Education

<i>Apr 2018 – Dec 2021</i>	Université de Montpellier – Universidad Peruana Cayetano Heredia PhD in Ecology (<i>Summa cum laude</i>) joint degree between France & Peru
<i>Sep 2008 – May 2012</i>	University of British Columbia – Vancouver. Master of Science, Zoology, Canada
<i>Dec 2007</i>	Universidad Peruana Cayetano Heredia -Professional Title, Biology Peru
<i>Mar 2000 – Jul 2005</i>	Universidad Peruana Cayetano Heredia -Bachelor of Science, Biology, Peru

Skills & Activities

<i>Skills</i>	Population Ecology, Marine Ecology, Conservation Biology, Biodiversity Monitoring, Environmental education
<i>Languages</i>	Spanish (Native), English (Advanced), French (Intermediate)
<i>Software</i>	R (Intermediate), Matlab (Basic), Wix (Basic)
<i>Memberships</i>	Marine Mammal Society, Sociedad Latinoamericana de Mamíferos Acuáticos, Colegio de Biólogos del Perú, PADI Open Water Diver, Pacific Seabird Group

Relevant Work Experience

<i>2023 – present</i>	Associate Professor, Department of Biological and Physiological Science. UPCH
<i>2022 – present</i>	Director, Center for Environmental Sustainability (CSA), UPCH
<i>2022 – present</i>	Professor, Master's Program in Marine Science, Escuela de Posgrado Victor Alzamora Castro, UPCH
<i>2018 – 2022</i>	Auxiliary Professor, Department of Biological and Physiological Science. UPCH
<i>2013 – present</i>	Director, Punta San Juan Program, CSA, Universidad Peruana Cayetano Heredia (UPCH)
<i>2016 – 2018</i>	Director, Center for Environmental Sustainability (CSA), UPCH
<i>2013 – 2017</i>	Field Research Programs Coordinator for Peru, Chicago Zoological Society
<i>2012</i>	Research Coordinator, Punta San Juan Project. CSA, UPCH
<i>2010 – 2012</i>	Project assistant, "Towards Ecosystem-based management of the Peruvian anchovy fishery" Fisheries Center – The University of British Columbia, CSA, UPCH & IMARPE
<i>2007 - 2008</i>	Project Assistant, "Living Landscapes between Peru and Bolivia". Wildlife Conservation Society

Scholarships & Awards

<i>2025</i>	Premio Cobián for 2022 publications by professors - <i>Facultad de Ciencias e Ingeniería, UPCH</i>
<i>2024</i>	Travel Grant - Trampolin Ecos Nord – <i>French Embassy in Peru</i>
<i>2022</i>	Rising Conservation Leader Award - <i>Chicago Zoological Society</i>
<i>2021</i>	Research Award: Carlos Ponce Peruvian Ocean - <i>Sociedad Peruana de Derecho Ambiental</i>
<i>2018 - 2021</i>	Scholarship- Peruvian French Doctoral School in Life Science - <i>French Embassy in Peru – IRD - Concytec</i>
<i>2016</i>	Disney Conservation Hero – <i>Disney Conservation Fund</i>
<i>2016</i>	Travel Grant - <i>Thomas Leiden Fund</i>
<i>2011</i>	Russell E. Train Education for Nature - <i>World Wildlife Fund</i>
<i>2009-11</i>	International Tuition Scholarship - <i>University of British Columbia</i>
<i>2008-10</i>	International Peace Scholarship - <i>P.E.O.</i>
<i>2008-09</i>	Faculty of Science Graduate Award - <i>University of British Columbia</i>

2008	Kit Malkin Scholarship - University of British Columbia
2008	Graduate Entrance Scholarship - University of British Columbia
2006	Small Grant - Idea Wild
2005,11,13,15	Student Travel Grant – Society for Marine Mammalogy

Committees

2022 - present	IMMA – Important Marine Mammal Areas Task Force Member
2020 – 2021	SERFOR – Peru. Categorization of Endangered Species in Peru. Species: <i>South American fur seal</i> , <i>South American sea lion</i> , <i>Humboldt penguin</i> , <i>Guanay cormorant</i>
2018 – present	SOLAMAC (Latin American Society of Aquatic Mammals) - Member of the scientific committee
2016	IUCN – Penguin Specialist Group. Species: <i>Humboldt penguin</i>
2015 – 2022	COMUMA – MINAM. Multisectoral Commission for Marine-Coastal Environmental Management. Ministry of the Environment of Peru
2013 – present	IUCN - Pinniped Specialist Group. Species: <i>South American fur seal</i> , <i>South American sea lion</i>

Thesis Dissertations

- 2021- *Mechanisms of coexistence of two sympatric species of pinnipeds, Arctocephalus australis and Otaria byronia, in Punta San Juan, Peru.* 12/2021, Degree: Doctor in Philosophy, Ecology. Supervisor: Dr. Yann Tremblay (France) & Dr. Dimitri Gutiérrez (Peru). Link: <https://tel.archives-ouvertes.fr/tel-03604632/document> <https://repositorio.upch.edu.pe/handle/20.500.12866/11644>
- 2012 - *Prey abundance and population dynamics of South American fur seals (Arctocephalus australis) in Peru.* 05/2012, Degree: Master in Science, Zoology. Supervisor: Dr. Andrew W. Trites
doi:10.13140/RG.2.2.25720.55046. Link: <https://open.library.ubc.ca/collections/ubctheses/24/items/1.0072800>
- 2007 - *Preferencias de uso de sitios para pariciones por hembras de Arctocephalus australis (ZIMMERMANN, 1783) en la Reserva Guanera Punta San Juan, Perú.* 10/2007, Degree: Licenciatura en Ciencias – Biología, (Professional Title equivalent). Supervisor: Dr. Armando Valdés Velásquez, doi: 10.13140/RG.2.2.34109.15841 Link: https://www.researchgate.net/publication/319077521_Preferencias_de_uso_de_sitios_para_pariciones_p_or_hembras_de_Arctocephalus_australis_ZIMMERMANN_1783_en_la_Reserva_Guanera_Punta_San_Juan_Peru

Scientific Publications: <https://orcid.org/0000-0002-8828-9552>

Book Chapters

- Susana Cárdenas-Alayza:** *Un frágil y privilegiado ecosistema / A fragile and privileged ecosystem.* In: Punta San Juan: Una historia de conservación. 07/2023: p. 93. The Living Oceans., ISBN: 9786124682322
- Susana Cárdenas-Alayza & Patricia Majluf:** *¿Qué está en juego? / What is at stake?* In: Punta San Juan: Una historia de conservación. 07/2023: p. 231. The Living Oceans., ISBN: 9786124682322
- Susana Cárdenas-Alayza:** *Más de un bicentenario entre el guano y el mar.* In: Desafíos y perspectivas de la situación ambiental en el Perú. INTE-PUCP. 02/2022: p.81-96. INTE-PUCP. URL: <https://repositorio.pucp.edu.pe/index/handle/123456789/183451>
- Susana Cárdenas-Alayza:** *South American Fur Seal.* In: Encyclopedia of Marine Mammals, 3rd Ed., 07/2018: pages 905-907, Academic Press., ISBN: 9780128043271
- Susana Cárdenas-Alayza:** *South American Sea Lion.* In: Encyclopedia of Marine Mammals, 3rd Ed., 07/2018: pages 907-910, Academic Press., ISBN: 9780128043271
- Michael Valqui, **Susana Cárdenas-Alayza:** *La tercera era del guano: Aves guaneras, cambio climático y pesca.* In: Metas del Perú al Bicentenario, Edited by Consorcio de Universidades, 08/2016: pages 103-108, Consorcio de Universidades., ISBN: 978 9972 704 12 3

Student supervision

- Vela Huamán, María Fernanda** (2023) Variación de estrategias nutricionales de especies simpátricas de lobos marinos residentes en el Perú en relación a factores climáticos. Trabajo de investigación para optar por el Grado de Bachiller en Ciencias con Mención en Biología. Facultad de Ciencias y Filosofía. Universidad Peruana Cayetano Heredia. Lima, Perú 13p <https://hdl.handle.net/20.500.12866/14895>

- Ganoza Gallardo, María José** (2023) Spatial variation in fatty acid profiles of macrobenthos from a pristine site and a metal-polluted site in a subtidal rocky shore ecosystem. Thesis submitted in partial fulfillment for master degree in Marine and Lacustrine Science and Management. Interuniversity Master of Science in Marine and Lacustrine Science and Management. Universiteit Antwerpen – Ghent University - Vrije Universiteit Brussels, Belgium. 43p
http://www.oceansandlakes.be/sites/default/files/Book_of_abstracts2023.pdf
- Freitas, Analisa** (2023) Building All From the Small: Valuing Local Marine Conservation Projects in Peru. Capstone Project. Master of Advanced Studies in Marine Biodiversity & Conservation (2022-2023). Center for Marine Biodiversity & Conservation. Scripps Institution of Oceanography at University of California at San Diego, California, USA. 41p
<https://escholarship.org/content/qt38w5255r/qt38w5255r.pdf?t=rxl685>
- Parodi Horny, Rafaella** (2021) Ecología de forrajeo de dos especies de pinnípedos simpátricos estimada a través del análisis de ácidos grasos. Trabajo de investigación para optar por el Grado de Bachiller en Ciencias con Mención en Biología. Facultad de Ciencias y Filosofía. Universidad Peruana Cayetano Heredia. Lima, Peru 22p <https://hdl.handle.net/20.500.12866/9422>
- Jerí Vidal, Juan Carlos** (2019) Supervivencia durante el primer año de vida del lobo fino sudamericano (*Arctocephalus australis*) en Punta San Juan, Ica, Perú. Tesis para optar por el Título de Licenciado en Ciencias con Mención en Biología. Facultad de Ciencias y Filosofía. Universidad Peruana Cayetano Heredia. Lima, Peru. 82p

Thesis Jury

- Narciso Mezones, Alexa Patricia** “Foraminiferal assemblages and organic matter relationships in a coastal lagoon on the arid coast of the Southeast Pacific”. Bachelors in Science. Universidad Peruana Cayetano Heredia. Lima, Peru. March 24, 2025
- Cavero Rozas, Claudia** “Patrones macroevolutivos de los Odontoceti durante los últimos 10 millones de años (Mioceno tardío -actualidad) y la evolución de los delfines oceánicos (Delphinidae)”. Masters Thesis in Marine Science Program. Universidad Peruana Cayetano Heredia. Lima, Peru. February 21st, 2025
- Whitmer, Emily** “Molecular surveillance for known and novel pathogens in Humboldt penguins (*Spheniscus humboldti*)”. Master’s Program in Ecology, Evolution and conservation biology. University of Illinois. Urbana-Champaign, IL, E.E.U.U. June 14, 2024
- González Ochante, Karolyne Julissa** “Dinámica Poblacional de las Especies de Acartia (Crustacea: Copepoda: Calanoida) del Sistema Estuarino-Lagunar de Cananea – Iguape, São Paulo, Brasil”. Bachelors in Science. Universidad Peruana Cayetano Heredia. Lima, Peru. July, 23, 2023
- Cavero Rojas, Claudia** “Patrones macroevolutivos de los Odontoceti durante los últimos 10 millones de años (Mioceno tardío-actualidad) y la evolución de los delfines oceánicos (Delphinidae). Master’s Thesis Project evaluation. Maestría en Ciencias del Mar. Facultad de Ciencias e Ingeniería. Universidad Peruana Cayetano Heredia. Lima, Peru. June 28, 2023
- González del Carpio, Diego Daniel** “Flexibilidad del Comportamiento de Forrajeo del Cormorán Guanay (*Phalacrocorax bougainvillii*) bajo un ambiente marino impredecible”. Bachelors in Science. Universidad Peruana Cayetano Heredia. Lima, Peru. September 9th, 2022
- Silviano Aguilar, Elizabeth & De Souza Reátegui, Nathaly Mía** “Influencia de los Factores Ambientales en la composición de la comunidad de macroinvertebrados bentónicos y grupos funcionales alimenticios en tres sectores de la cuenca del Río Chillón”. Bachelors in Science. Universidad Peruana Cayetano Heredia. Lima, Peru. April 5, 2022
- Torres Castillo, Daniel Anthoni** “Efecto del tamaño de nidada en el esfuerzo de forrajeo del cormorán guanay (*Phalacrocorax bougainvillii*) en la Reserva Nacional Punta San Juan, Ica. Master’s Thesis Project evaluation. Universidad Peruana Cayetano Heredia. Lima, Peru. March 30, 2022
- Fernández Rodríguez, Sol María Isabelle** “Evaluación de la dinámica poblacional de gecko de Lima *Phyllodactylus sentosus* (Reptilia: Phyllodactylidae)”. Bachelors in Science.. Universidad Peruana Cayetano Heredia. Lima, Peru. October 10, 2019
- Amaro Giraldo, Lady Madeleine** “Variaciones interanuales (1996-2015) de la dieta del Guanay *Phalacrocorax bougainvillii* a partir de la reconstrucción del análisis de bolos residuales enterrados en depósitos de guano”. Masters Thesis in Marine Science Program. Universidad Peruana Cayetano Heredia. Lima, Peru. December 7, 2017

Funding

- 2025 **Punta San Juan Consortium** - Monitoring of Human Activities and Wildlife Populations during the Guano Harvest Campaign at Punta San Juan in 2025 **\$29,232.33**
- 2025 **Trampolín ECOS Nord** – How climate related changed in physical/chemical conditions impacts the marine ecosystem functioning, through the study of marine top predators, considered bio-indicators of ecosystems health. **2,500€**

2025	Chicago Board of Trade Endangered Species Fund – Sympatric Pinniped Diets in Flux: Assessing Prey Composition and Environmental Influences through DNA Metabarcoding \$7,000
2025	National Fish and Wildlife Foundation (NFWF) - Invasive species eradication in Punta San Juan Island Conservation Partnership \$128,000
2020-2025	Punta San Juan Program Consortium Annual Operations Funding \$ 102- 122,612 /yr
2024	PROCIENCIA Fund to incorporate Postdoctoral researchers- “ Evaluation of zoonotic pathogens in invasive rodents in Punta San Juan, Ica, Peru: Avian Influenza, <i>Toxoplasma gondii</i> and <i>Leptospira spp</i> ” S/. 165,000
2024	Chicago Board of Trade Endangered Species Fund – Chronic Stress signals using fecal glucocorticoid metabolites in pinnipeds \$7,000
2024	Kansas City Zoo Conservation Grant - Ocean Awareness \$8,172
2023	Dolphin Quest – Cost-effective methods for small cetacean research & conservation in Peru \$16,140
2023	Kansas City Zoo Conservation Grant - Ocean Awareness \$10,718
2021	Small grants/donations for Temporal housing project in Punta San Juan \$58,400

References

Dra. Patricia Majluf, PhD.
Senior Scientist, Oceana- **Peru**
Email: pmajluf@spondylus.org

Dr. Michael Adkesson, DVM.
CEO, Chicago Zoological Society - **USA**
Email: Michael.Adkesson@czs.org

Dr. Andrew Trites, PhD.
Professor, University of British Columbia -
Canadá. Email: a.trites@oceans.ubc.ca

Dr. Dimitri Gutiérrez, PhD.
Coordinator, Marine Science Masters Program,
Universidad Peruana Cayetano Heredia - **Peru**
General Director, Oceanography and Climate
Change, IMARPE
Email: dimitri.gutierrez.a@upch.pe

Dr. Yann Tremblay, PhD.
Professor, Université de Montpellier – **France**
Researcher, MARBEC, IRD
Email: yann.tremblay@ird.fr