

## CURRICULUM VITÆ

# Exequiel Ezcurra

Born in Argentina the 21<sup>st</sup> of March 1950, moved to Mexico in my early youth, in year 1977. I became a full Mexican citizen and lived there most of my adult life. I am married to Bárbara Córcega, a Mexican theater actress, translator, interpreter, and creative writer, and we have four children—María, Ana, Pedro, and Paula—all of them of Mexican nationality.

I am Director of UC MEXUS: the University of California Institute for Mexico and the United States (*Instituto para México y los Estados Unidos*), a binational organization devoted to the enhancement of cross-border academic collaboration funded jointly by the State of California and the Mexican Government through its *Consejo Nacional de Ciencia y Tecnología* (CONACYT). I am also Professor of Plant Ecology at UC Riverside, and, as active and high-level member of the Mexican *Sistema Nacional de Investigadores*, the top research group of Mexico, I am also an active lecturer and graduate advisor at a number of Mexican universities and research centers.

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## Academic background

Bachelor in Agricultural Sciences with a major in Botany and Natural Resource Management, University of Buenos Aires, 1973.

Diploma in Systems Analysis and Modeling in Ecology (a UNESCO international graduate course), *Instituto Venezolano de Investigaciones Científicas* (IVIC), Caracas, Venezuela, 1974.

*Magister Scientiae* (M.Sc., Ecology), University College of North Wales (UK), 1978. Academic mentor: Peter Greig-Smith, School of Plant Biology.

*Philosophiae Doctor* (Ph.D.), University College of North Wales (UK), 1984. Academic mentor: Peter Greig-Smith, School of Plant Biology.

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## Professional Experience

### Research experience

1. Research Assistant at the Department of Natural Resources, Fundación Bariloche, Argentina, from 1975 to 1977.
2. Principal Researcher in charge of the Laboratory of Plant Ecology at the *Instituto de Ecología*, Natural History Museum, in Mexico, D.F., from 1979 to 1987.
3. Principal Researcher in charge of the Laboratory of Community Ecology at the *Centro de Ecología, Universidad Nacional Autónoma de México*, from 1987 to 1998.
4. Director, Biodiversity Research Center of the Californias, and Deputy Director of Research and Collections, San Diego Natural History Museum, San Diego, California, from 1998 to 2001.
5. President, National Institute of Ecology (*Instituto Nacional de Ecología*), independent research branch of Mexico's Ministry of the Environment and Natural Resources (*Secretaría de Medio Ambiente y Recursos Naturales*) 2001 to 2005.
6. Provost, San Diego Natural History Museum, and Director of the Biodiversity Research Center of the Californias, San Diego, California, from April 2005 to November 2008.
7. Professor of Plant Ecology, UC Riverside, Department of Botany and Plant Sciences, from November 2008 to present.

### Teaching experience

1. Teaching Assistant, Soil Science, University of Buenos Aires, 1970–1971.
2. Biology Instructor, University of Buenos Aires, 1973.
3. Teaching Assistant, Universidad Nacional del Comahue, Argentina; 1974–1975.
4. Lecturer at the Graduate Section of the National School of Biological Sciences, National Polytechnic Institute, Mexico; 1979 to 1991.
5. Lecturer at the Instituto Argentino de Investigaciones sobre Zonas Áridas (IADIZA), Mendoza, Argentina; September-November 1986.
6. Lecturer at the Instituto Antártico Argentino, Buenos Aires; July-August 1987.
7. Professor at the Ecology Graduate Program of the Instituto de Ecología, UNAM, from 1987 to 1998.
8. Coordinator of the Graduate Section in Ecology at the Instituto de Ecología, UNAM, from 1990 to 1992.
9. Organizer and Coordinator of several international courses for Latin American graduate students offered by the Organization of American States (OAS, 1994), and by the Environmental Program of the National University of Mexico (1995 and 1997).
10. Invited lecturer to international graduate courses offered by the Latin American Botanical Network (1995), the International University of Andalucia, School of Santa María de la Rábida

at Palos de la Frontera, Spain (1996), and the Menéndez y Pelayo University at Santander, Spain (1997).

11. Invited lecturer on conservation biology, University of Andalucía at Almería, Spain, May 2003.
12. Professor of Ecology at the University of California, Riverside, teaching both undergraduate and graduate courses; November 2008 to present.

### **Experience in Science Popularization, Museum Science, and Public Education**

As Researcher at the Instituto de Ecología in Mexico, D.F., I developed exhibits for Mexico's *Museo de Historia Natural*, based on our own research, and started a series of popular publications in Mexican newspapers and science magazines (1979 to 1987).

Between 1998 and 2001, and later, between 2005 and 2008, as Director of the Biodiversity Research Center at the San Diego Natural History Museum, I developed or participated actively the following projects:

- Science script and production of the giant screen film *Ocean Oasis* (1999).
- Museum exhibit *Desert and Sea*, reflecting the evolutionary processes and the biodiversity of the Pacific Coastal Deserts of North America (1999).
- Joint Binational *Sven Lindblad* Expedition to inventory the biological diversity of the Central Mountains of Baja California (1998).
- Joint Binational Expedition to Guadalupe Island and its unexplored islets in the Mexican Pacific Ocean (2000).
- Curator of the exhibit *Water: The California Story*, on water in Southern California (2008).
- Curator of the international exhibit *Water: H<sub>2</sub>O = Life*, on the natural history of water, in collaboration with the American Museum of Natural History (2007).
- Joint Binational Expedition to the Seamounts of the Sea of Cortés using a Deep-Sea Submarine vehicle (2008).

As President of Mexico's National Institute of Ecology I devoted strong efforts to the popularization of environmental sciences, developing the following projects:

- Publication of a popular flora of the Valley of Tehuacán, a biological hotspot in southern Mexico.
- Edition and publication of the book "*The Gulf of California: A world apart*," in collaboration with Sierra Madre, a Conservation NGO.
- Development of a traveling photographic exhibit to accompany the presentation of the book in the States surrounding the Sea of Cortés.
- Edition and publication of the book "*Lifeforms*," to pay tribute to the natural history photography of Mariana Yampolsky, a famous American-born, Mexican artist.
- Collaboration with two chapters for the forthcoming book "*Wilderness: The last wild regions of our planet*," edited by Conservation International.

- Chapter for the book “*Plant Portraits. The California Legacy of A.R. Valentien*” edited and developed jointly by the Irvine Museum and the San Diego Natural History Museum.
- Texts and research for “*La Otra Cara de tu Ciudad,*” a photographic exhibit on the natural history of the basin of Mexico, placed on Reforma Avenue in Mexico City.

### **Experience as environmental consultant**

As researcher at the Instituto de Ecología in Mexico, between 1979 and 1985 I directed and developed five environmental impact studies, including the environmental evaluation of the deep-water oil-port of Dos Bocas, in Tabasco, which was the first Environmental Impact Statement carried out in Mexico.

I have also made ten other consulting studies and reports for international and governmental organizations, and/or educational institutions. Among these, the following are especially noteworthy:

- Scientific script for the Museum of Natural History of Cozumel, in southeastern Mexico.
- Scientific script for the Museum of Water, a project for the Government of Mexico City and *Fundación Gonzalo Río Arronte*.
- Governmental report on the problems and status of biological diversity in Mexico, as a preparatory document for the Earth Summit (UNCED) in Rio, 1992.
- Regional program for the implementation of Agenda 21 in Latin America and the Caribbean, a report to UNEP for its presentation in the Regional Meeting of Environmental Ministers at Havana, Cuba, in September 1995.
- Regional report on the State of the Environment in Latin America and the Caribbean, for its inclusion in the GEO-I (*Global Environmental Outlook*) State-of-the-Environment Report of UNEP, in September 1996.
- "*Institutional Trends in Mexico*", a report to the North American Commission for Environmental Cooperation for its inclusion in the 1996 State-of-the-Environment Report; October 1996.
- Editor of the United Nation's 2006 report on the state of the deserts of the world (*Global Deserts Outlook*) published to celebrate the International Year of Deserts.

### **Experience in administration, leadership, and government**

1. Assistant Director at the Instituto de Ecología, Museum of Natural History, in Mexico, D.F., 1982 to 1985.
2. Director General of Natural Resources and Ecological Planning in the Mexican Federal Government, 1992 to 1994.
3. Director, Biodiversity Research Center of the Californias, San Diego Natural History Museum, 1998 to 2001.

4. President, National Institute of Ecology (*Instituto Nacional de Ecología*), independent research branch of Mexico's Ministry of the Environment and Natural Resources (*Secretaría de Medio Ambiente y Recursos Naturales*), January 2001 to April 2005.
5. Museum Provost and Director of the Biodiversity Research Center of the Californias, San Diego Natural History Museum, April 2005 to November 2008.
6. Director, University of California Institute for Mexico and the United States (UC MEXUS), November 2008 to present.

## Languages

I speak and write in Spanish (my native language) and English fluently. I can also read and understand Latin, French, Portuguese and Italian.

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## Honors and awards

### Honorary positions

I have been member of the governing councils and/or directive boards of the World Wildlife Fund (WWF) International, the Tyler Prize Fund, PRONATURA, A.C., the largest conservationist NGO in Mexico, the Mexican Nature Conservation Fund, CANTE, A.C., a conservationist NGO specializing in orchids, cacti, and botanical gardens, ISLA, A.C., an NGO devoted to the conservation of the islands of the Gulf of California, the Instituto de Ecología, A.C, the Drylands Institute in Tucson, Arizona, the North American Riparian Council, the Binational Advisory Board of the San Diego Natural History Museum, the Sonoran Institute, and six Mexican research centers from the national CONACYT network. I was also Scientific Advisor to the Sustainability Program of the ALCOA Foundation (2004–2010), and member of the Scientific Advisory Board to the County of San Diego (2000–2008).

In December, 1994, I was designated Chairman of the Scientific Committee during the 9th Meeting of the Conference of the Parties of the Convention on the International Trade of Endangered Species (CITES), at Fort Lauderdale, Florida. I was Chairman of the Steering Committee of the "Coalition of the Gulf of California," an association of Mexican and U.S. NGOs promoting the conservation of the ecosystems of the Sea of Cortés, and was a member of the International Scientific Advisory Board set up by the Mexican Federal Government to evaluate the Environmental Impact Statement of a proposed large-scale salt-evaporating facility at the San Ignacio Lagoon, in Baja California.

I have acted as Juror for the BBVA International Conservation Awards (2004), the Volkswagen Conservation Awards (2006–present), the Aldo Leopold Award (2011), and the Tyler Prize (2015–present).

## Editorial Boards

Starting in 1997, I joined the editorial board of the international *Journal of Vegetation Science*, and in 2000 became Associate Editor, a position I maintained until 2010. I am also a member of the editorial board of three Mexican science journals.

## Awards

**"Faustino Miranda" Medal** to merit in ecological research, granted by the Centro de Ecología, UNAM, in May 1993.

**Julian Hayden Award** granted by the Sonoran Alliance (a bi-national organism promoting the conservation of the Sonoran Desert), in recognition of the work done to protect the ecosystems of the Gran Desierto in Mexico through the creation of the Pinacate and the Upper Gulf of California Biosphere Reserves; 6 January 1994.

**Conservación Award 1993**, from PRONATURA, A.C., for the work done to protect the *vaquita* of the Gulf of California (*Phocoena sinus*) and the "totoaba" (*Totoaba macdonaldii*) through the creation of Upper Gulf of California Biosphere Reserve; 19 January 1994.

**Conservation Biology Award 1994**, granted by the international *Society for Conservation Biology* (editor of the journal *Conservation Biology*); August 1994.

**Special Award** from the U.S. Department of the Interior for "oustanding cooperation with the National Park Service and the Fish and Wildlife Service on environmental and conservation affairs in the Mexico-U.S. border"; Las Cruces, New México, 6 December 1994.

**1999 Research Award** from the Universidad Autónoma Metropolitana of Mexico, for the best research paper published in 1999 in the areas of Biology and Biomedical Research (shared with Dr. Alejandro Zavala, co-author and researcher at the Universidad Autónoma Metropolitana).

**Jackson Hole Wildlife Film Festival 2001**. The giant screen film "Ocean Oasis," of which I was associate producer, developer of the scientific script, and on-screen narrator, won the "Best Theatrical" award.

**2002 Wildscreen Award** (Bristol, U.K.) for "Ocean Oasis" as the best film in the Large Format Category.

**2005–2008 Pew Fellow in Marine Conservation**. Three-year fellowship award granted by the Pew Foundation.

**2007 Peacemaker Award** granted by the National Conflict Resolution Center for cross-border collaboration to have the islands of the Sea of Cortés designated as an international UNESCO World Heritage Site.

**2009 "Dos Aguilas" Excellence in Service Award** for "dedication and hard work serving the citizens of San Diego and the Mexico-U.S. border region"; March 6, 2009

**2010 *Biology Letters* Top Referee**. Selected as one of the Top Referees in 2009 by the journal *Biology Letters*, edited by the The Royal Society, London.

**2015 *Premio al Mérito Ecológico***, a lifetime achievement award granted by the Sociedad Científica Mexicana de Ecología ([www.scme.mx](http://www.scme.mx)) on April 21<sup>st</sup> 2015.

**2016 Science Media Awards** sponsored by NSF and granted Jackson Hole WILD and WGBH-PBS, Boston, first place in the "Micro-Movie" category for our documentary "Mangroves".

**2017 Fellow of the Ecological Society of America**, nominated by Enriqueta Velarde (National Geographic Society Conservation Hero 2014), José Sarukhán (Tyler Prize for Environmental Achievement 2017), and Rodolfo Dirzo (Bing professor of Ecology, Stanford University).

**2017 Premio Naturaleza y Sociedad**, award given annually by the University of Guadalajara and the International Book Fair (FIL) to a distinguished ecologist who has contributed significantly to the promotion of environmental justice.

**2018 Corresponding Member of the Mexican Academy of Sciences**, a distinction awarded by the Academy to persons that have done exemplary work to advance and promote Mexican science at the international level.

**2019 Cátedra Miguel Alemán** (Miguel Alemán Chair), a distinguished-lecturer series and prize awarded annually by the Miguel Alemán Foundation to distinguished Mexican scientists.

### Scholarships

I have received scholarships and student grants from UNESCO, the British Council, the Ford Foundation, and the U.S. Agency for International Development.

### Scientific societies

- American Association for the Advancement of Science.
- Asociación Argentina de Ecología.
- Association for Tropical Biology.
- British Ecological Society.
- Ecological Society of America.
- IAVS - International Association for Vegetation Science.
- ICOM - International Council of Museums.
- Intecol – International Ecological Association
- Sociedad Botánica de México.

### Refereeing for scientific journals

I was Associate Editor of the *Journal of Vegetation Science*, the official journal of the International Association of Vegetation Science, between January 2000 and December 2008.

I have acted as editorial referee for the following journals and printers: *Nature*, *Science*, *Proceedings of the National Academy of Sciences*, *Biology Letters* (selected as Top Referee in 2009), *Agroforestry Systems*, *American Journal of Botany*, *Anales del Museo de Historia Natural de Valparaíso*, *Biodiversity & Conservation*, *Biotam* (Universidad de Tamaulipas), *Biotropica*, *Boletín de la Sociedad Botánica de México*, *Ciencia*, *Conservation Biology*, *Diversity & Distributions*, *Ecography*, *Ecología Austral*, *Ecology*, *Environmental Impact Assessment Review*, *Environmental Pollution*, *Fondo de Cultura Económica*, *Haseltonia*, *Journal of Vegetation Science*, *Plant Ecology*, *Singapore Journal of Tropical Geography*, *The Journal of Ecology*, *The*

*Southwestern Naturalist*, *University of California Press*, *Tropical Ecology*, and *Vegetatio*, among many others.

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## Scientific and research output

### Publications in peer-reviewed journals

137. Ezcurra, E., E. Barrios, P. Ezcurra, A. Ezcurra, S. Vanderplank, O. Vidal, L. Villanueva-Almanza, and O. Aburto-Oropeza. 2019. A natural experiment reveals the impact of hydroelectric dams on the estuaries of tropical rivers. *Science Advances* 5, eaau9875.
136. Villanueva-Almanza, L., P.P. Garcillán, E. Ávila-lovera, V. Pérez, C. Silva-bejarano, E. Focht, and E. Ezcurra. 2018. A Hollywood palm icon unmasked: clinal variation in *Washingtonia* (Arecaceae) of Peninsular California. *Botanical Journal of the Linnean Society* (in press, advance online publication). doi: 10.1093/botlinnean/boy066/5136435
135. Velarde, E., and E. Ezcurra. 2018. Are seabirds' life history traits maladaptive under present oceanographic variability? The case of Heermann's Gull (*Larus heermanni*). *The Condor* 120: 388–401. doi: 10.1650/CONDOR-17-5.1
134. Martínez-Ballesté, A., and E. Ezcurra. 2018. Reconstruction of past climatic events using oxygen isotopes in *Washingtonia robusta* growing in three anthropic oases in Baja California Sur. *Boletín de la Sociedad Geológica Mexicana* 70(1): 79–94. doi: 10.18268/BSGM2018v70n1a5
133. Vanderplank, S.E., J.P. Rebman, and E. Ezcurra. 2018. Where to conserve? Plant biodiversity and endemism in mediterranean Mexico. *Biodiversity and Conservation* 27(1): 109-122. DOI 10.1007/s10531-017-1424-7
132. Johnson, A.F., A. Girón-Nava, B. Erisman, E. Sala, E. Velarde, E. Ezcurra, O. Aburto-Oropeza. 2017. Comment on Arreguín et al. 2017. *Environmental Development* 23: 72–75. <https://doi.org/10.1016/j.envdev.2017.05.004>
131. Semotiuk, A.J., P. Colunga-GarcíaMarín, D. Valenzuela-Maldonado, and E. Ezcurra. 2017. Pillar of strength: Columnar cactus as a key factor in Yoreme heritage and wildland preservation. *Ambio* 47(1): 86–96. doi 10.1007/s13280-017-0940-8.
130. Delgado-Fernández, M., P.P. Garcillán, and E. Ezcurra. 2017. The giant columnar cactus *Pachycereus pringlei* adaptively modifies its stem shape from the dry tropics into the arid mid-latitude deserts. *Journal of Arid Environments* 146: 10–17. <http://dx.doi.org/10.1016/j.jaridenv.2017.07.004>
129. Johnson A.F., M. Moreno-Báez, A. Girón-Nava, J. Corominas, B. Erisman, E. Ezcurra, and O. Aburto-Oropeza. 2017. A spatial method to calculate small-scale fisheries effort in data-poor scenarios. *PLoS ONE* 12(4): e0174064. <https://doi.org/10.1371/journal.pone.0174064>
128. Ezcurra, E. 2016. Commentary: Anthropogenic disturbances infiltrate forest fragments. *Proceedings of the National Academy of Sciences* 113(19): 5150–5152.
127. Rubio-Cisneros, N.T., O. Aburto-Oropeza, and E. Ezcurra. 2016. Small-scale fisheries of lagoon estuarine complexes in Northwest Mexico. *Tropical Conservation Science* 9(1): 78–134.

126. Delgado-Fernández, M., P. P. Garcillán, and E. Ezcurra. 2016. On the age and growth rate of giant cacti: Radiocarbon dating of the spines of cardon (*Pachycereus pringlei*). *Radiocarbon* 58(3): 479–490.
125. Ezcurra, P., E. Ezcurra, P. P. Garcillán, M. T. Costa, and O. Aburto-Oropeza. 2016. Coastal landforms and accumulation of mangrove peat increase carbon sequestration and storage. *Proceedings of the National Academy of Sciences* 113(16): 4404–4409.
124. Semotiuk, A.J., N.L. Semotiuk, and E. Ezcurra. 2015. The eruption of technology in traditional medicine: How social media guides the sale of natural plant products in the Sonoran Desert region. *Economic Botany* 69(4): 360–369.
123. Vanderplank, S. E., and E. Ezcurra. 2016. Marine influence controls plant phenological dynamics in Mediterranean Mexico. *Journal of Plant Ecology* 9(4): 410–420.
122. Martínez-Berdeja, A., E. Ezcurra, and M. Torres. 2015. Morphological variability in propagules of a desert annual as a function of rainfall patterns at different temporal and spatial scales. *Functional Ecology* 29: 1260–1267.
121. Velarde, E., E. Ezcurra, M.H. Horn, and R.T. Patton. 2015. Warm oceanographic anomalies and fishing pressure drive seabird nesting north. *Science Advances* 1: e1400210.
120. Martínez-Berdeja, A., and E. Ezcurra. 2015. What can *Chorizanthe rigida* propagule morphology tell us about rainfall variability and geomorphology in desert ecosystems? *Mojave National Preserve Science Newsletter* 8: 6–9. (available online at [www.nps.gov/moja/learn/science-newsletter.htm](http://www.nps.gov/moja/learn/science-newsletter.htm)).
119. ESA Vegetation Classification Panel. 2015. How a national vegetation classification can help ecological research and management (peer reviewed letter). *Frontiers in Ecology and the Environment* 13: 185–186.
118. González-Abraham C., E. Ezcurra, P.P. Garcillán, A. Ortega-Rubio, M. Kolb, and J.E. Bezaury-Creel. 2015. The Human Footprint in Mexico: Physical Geography and Historical Legacies. *PLoS ONE* 10(3): e0121203. doi:10.1371/journal.pone.0121203
117. Gómez-Gutiérrez, J., R. Funes-Rodríguez, K. Arroyo-Ramírez, C.A. Sánchez-Ortiz, J.R. Beltrán-Castro, S. Hernández-Trujillo, R. Palomares-García, O. Aburto-Oropeza, and E. Ezcurra. 2014. Oceanographic mechanisms that possibly explain dominance of neritic-tropical zooplankton species assemblages around the Islas Marías Archipelago, Mexico. *Latin American Journal of Aquatic Research* 42(5): 1009–1034.
116. Martínez-Berdeja, A., E. Ezcurra, and A.C. Sanders. 2015. Delayed seed dispersal in California deserts. *Madroño* 62(1): 21–32. doi: 10.3120/0024-9637-62.1.21
115. Aburto-Oropeza, O., E. Ezcurra, J. Moxley, A. Sánchez-Rodríguez, I. Mascareñas-Osorio, C. Sánchez-Ortiz, B. Erisman, and T. Ricketts. 2015. A framework to assess the health of rocky reefs linking geomorphology, community assemblage, and fish biomass. *Ecological Indicators* 52: 353–361.
114. Sarukhán, J., T. Urquiza-Haas, P. Koleff, J. Carabias, R. Dirzo, E. Ezcurra, S. Cerdeira-Estrada, and J. Soberón. 2015. Strategic actions to value, conserve, and restore the natural capital of megadiversity countries: The case of Mexico. *BioScience* 65(2): 164–173. doi: 10.1093/biosci/biu195

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113. Velarde, E., E. Ezcurra, and D.W. Anderson. 2014. Seabird diet predicts following-season commercial catch of Gulf of California Pacific Sardine and Northern Anchovy. *Journal of Marine Systems* 145: 82–88. doi: 10.1016/j.jmarsys.2014.08.014
112. Peters, E.M., S. Arizaga, C. Martorell, R. Zaragoza, and E. Ezcurra. 2014. Distribución geográfica y estado de conservación de las poblaciones de *Mammillaria pectinifera*. *Revista Mexicana de Biodiversidad* 85: 942-952, DOI: 10.7550/rmb.36338
111. Martínez-Berdeja, A., M. Torres, D. L. Altshuler, and E. Ezcurra. 2014. Hydration history and attachment morphology regulate seed release in *Chorizanthe rigida* (Polygonaceae), a serotinous desert annual. *American Journal of Botany* 101(7): 1079–1084. doi: 10.3732/ajb.1400120.
110. Vanderplank, S., E. Ezcurra, J. Delgadillo, R. Felger, and L.A. McDade. 2014. Conservation challenges in a threatened hotspot: Agriculture and plant biodiversity losses in Baja California, Mexico. *Biodiversity and Conservation* 23(9): 2173-2182. DOI 10.1007/s10531-014-0711-9.
109. Wilder, B.T., J.L. Betancourt, C.W. Epps, R.S. Crowhurst, J.I. Mead, and E. Ezcurra. 2014. Local extinction and unintentional rewilding of bighorn sheep (*Ovis canadensis*) on a desert island. *PLoS-ONE* 9(3): e91358. doi: 10.1371/journal.pone.0091358
108. Velarde, E., B.T. Wilder, R.S. Felger, and E. Ezcurra. 2014. Floristic diversity and dynamics of Isla Rasa, Gulf of California - A globally important seabird island. *Botanical Sciences* 92(1): 89–101.
107. Vanderplank, S.E., S. Mata, and E. Ezcurra. 2014. Biodiversity and archeological conservation connected: Aragonite shell middens increase plant diversity. *Bioscience* 64(3): 202–209. doi: 10.1093/biosci/bit038
106. Rubio-Cisneros, N.T., O. Aburto-Oropeza, J. Murray, C.E. González-Abraham, J. Jackson, and E. Ezcurra. 2014. Transnational Ecosystem Services: The Potential of Habitat Conservation for Waterfowl Through Recreational Hunting Activities. *Human Dimensions of Wildlife* 19:1–16. doi: 10.1080/10871209.2013.819536
105. Martínez-Berdeja, A., N. Pietrasiak, A. Tamase, E. Ezcurra, E.B. Allen. 2013. Living where others dare not: Microhabitat distribution in *Chorizanthe rigida*, a serotinous desert annual. *Journal of Arid Environments* 97: 120–126.
104. Wehncke, E. V., X. López-Medellín, M. Wall, and E. Ezcurra. 2013. Revealing an endemic herbivore-palm interaction in remote desert oases of Baja California. *American Journal of Plant Sciences* 4(2A): 470–478.
103. Trasviña Castro, A., O. Aburto-Oropeza, E. Ezcurra, and O. Zaytsev. 2013. Observaciones de corrientes en el Parque Nacional de Cabo Pulmo, Baja California Sur: mediciones Eulerianas en verano, otoño e inicios del invierno. *GEOS* 32(2): 1–20.
102. Velarde, E., E. Ezcurra, and D.W. Anderson. 2013. Seabird diets provide early warning of sardine fishery declines in the Gulf of California. *Nature Scientific Reports* 3: 1332 | DOI: 10.1038/srep01332.
101. Wehncke, E.V., J. Rebman, X. López-Medellín, and E. Ezcurra. 2012. Sierra de la Libertad: A major transition between two desert regions in Baja California, Mexico. *Botanical Sciences* 90 (3): 239–261.

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100. López-Medellín, X., and E. Ezcurra. 2012. The productivity of mangroves in northwestern Mexico: a meta-analysis of current data. *Journal of Coastal Conservation* 16 :399–403.
99. Lövei, G.L., Lewinsohn, T.M., and the Biological Invasions in Megadiverse Regions Network. 2012. Megadiverse developing countries face huge risks from invasives. *Trends in Ecology and Evolution* 27(1): 2–3.
98. Aburto-Oropeza, O., B. Erisman, G.R. Galland, I. Mascareñas-Osorio, E. Sala, and E. Ezcurra. 2011. Large Recovery of Fish Biomass in a No-Take Marine Reserve. *PLoS ONE* 6(8): e23601.
97. Erisman, B.E., G.R. Galland, I. Mascareñas, J. Moxley, H.J. Walker, O. Aburto-Oropeza, P.A. Hastings, and E. Ezcurra. 2011. List of coastal fishes of Islas Marías archipelago, Mexico, with comments on taxonomic composition, biogeography, and abundance. *Zootaxa* 2985: 26–40.
96. López-Medellín, X., A. Castillo, and E. Ezcurra. 2011. Contrasting perspectives on mangroves in arid Northwestern Mexico: Implications for integrated coastal management. *Ocean & Coastal Management* 54: 318–329.
95. López-Medellín, X., E. Ezcurra, C. González-Abraham, J. Hak, L.S. Santiago, and J.O. Sickman. 2011. Oceanographic anomalies and sea-level rise drive mangroves inland in the Pacific coast of Mexico. *Journal of Vegetation Science* 22 (1): 143–151.
94. Garcillán, P.P., and E. Ezcurra. 2011. Sampling procedures and species estimation: testing the effectiveness of herbarium data against vegetation sampling in an oceanic island. *Journal of Vegetation Science* 22: 273–280
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### **Exhibits and films**

5. Curator of the museum exhibit *Water: The California Story*, on water science and conservation in Southern California; San Diego Natural History Museum (2008–2010).
4. Curator of the museum exhibit *Water: H<sub>2</sub>O = Life*, on the natural history of water; San Diego Natural History Museum and American Museum of Natural History (2007–2008).
3. Curation (texts and research) for *La Otra Cara de tu Ciudad*, a photographic exhibit on the natural history of the basin of Mexico, placed on Reforma Avenue in Mexico City (2005).
2. Science script, field production, and on-camera narration of the giant screen film *Ocean Oasis*, winner of the 2001 Jackson Hole Award, and of the 2002 Wildscreen Award (Bristol, U.K.).
1. Curator and developer of the museum exhibit *Desert and Sea*, reflecting the evolutionary processes and the biodiversity of the Pacific Coastal Deserts of North America; San Diego Natural History Museum and Smithsonian Institution (1999).

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## **Mentoring and training**

### **Training of scientific and technical personnel**

During my professional career, I have directed 15 bachelor dissertations, six master's theses, and over 40 doctoral theses. Many of my former students are now outstanding professionals in Mexico and throughout Latin America. Among them, the following are especially noteworthy:

1. Alejandro Flores Martínez. Worked for three years as Secretary of the Environment in the State of Oaxaca, Mexico. Now a leading investigator at a local research institute, and an advisor to the Oaxacan government.
2. Alejandro Zavala Hurtado. Head of the Laboratory of Desert Ecology, Universidad Autónoma Metropolitana, Mexico. One of the leading specialists in desert ecology in Mexico. Winner of the 1999 UAM - "Best Research Paper" Award.
3. Alfonso Guillermo Banderas Tarabay. Special adviser to the Nacional Water Commission, Mexico.
4. Alfonso Valiente-Banuet. Principal Investigator at the Instituto de Ecología, UNAM. One of the leading specialists in desert ecology in Mexico.
5. Alice Altesor. Head of the Laboratory of Ecology, Universidad de la República, Uruguay. Leading specialist in grassland ecology in Uruguay.
6. Arturo Flores Martínez. Principal Investigator at the Laboratory of Plant Ecology, Instituto Politécnico Nacional, Mexico. Head of special programs on environmental planning and natural resource management.
7. Ligia Collado-Vides. Principal Investigator at the Phycology Laboratory, Faculty of Sciences, UNAM, now Professor of marine biology at Florida International University.
8. Enrique Jardel. Director of the Instituto Manantlán de Ecología, Universidad de Guadalajara, Mexico.

9. Jorge López-Portillo. Principal Investigator at the Instituto de Ecología in Xalapa, Veracruz.
10. Judith Becerra. Evolutionary ecologist at the University of Arizona, Tucson.
11. Lucina Hernández. Principal Investigator at the Instituto de Ecología. Currently directing a joint US-Mexico program on the effects of grazing in the Chihuahuan Desert.
12. Luis A. Bojórquez. Principal Investigator at the Instituto de Ecología, UNAM, and Head of the Remote-Sensing Laboratory. Recognized as one of the leading specialists in environmental planning in Mexico. Recently appointed Director general of Ecological Planning in the Mexican Federal Government.
13. Luis Pablo Emilio Picchetti Ocedo. Head of the Laboratory of Ecology at the Universidad Nacional de Jujuy, Argentina.
14. Oscar Alberto Flores Villela. Principal Investigator at the Museum of Zoology, Faculty of Sciences, UNAM. Recognized as the leading Mexican Zoogeographer.
15. Oscar Luis Briones Villarreal. Principal Investigator at the Instituto de Ecología in Xalapa, Veracruz.
16. Salvador Sánchez-Colón. Head of the Laboratory of Plant Ecology, Instituto Politécnico Nacional, Mexico, and later appointed Director General of Environmental Information in the Mexican Federal Government.
17. Sonia Antonieta Gallina Tessaro. Director of the Department of Animal Ecology at the Instituto de Ecología in Xalapa, Veracruz.
18. Valdemar Rodrigues. Worked for six years as Secretary of the Environment in the State of Teresina, Brazil. Now a researcher at the local university, and an advisor to the Brazilian government.
19. Alejandro Zavala-Hurtado. Profesor of Ecology at the Metropolitan University (UAM) in Mexico City.
20. Hugo Riemann. Researcher at the *Colegio de la Frontera* in Tijuana, Mexico.
21. Pedro Peña Garcillán. Now a tenured researcher and project leader at the Centro de Investigación Científica y Educación Superior de Ensenada (CICESE), Ensenada, México.
22. Cristina Perea. Professor of Plant Science at the University of Tucumán, in Argentina.
23. Carlos Martorell. Tenured professor and renowned researcher at the Faculty of Sciences, UNAM in Mexico City. Recognized as one of the leading young plant ecologists in Mexico.
24. Lina Ojeda Revah. Director of Academic Affairs, COLEF – *El Colegio de la Frontera Norte*, Tijuana, Mexico.
25. Eduardo Peters. Director General of Ecological Conservation at Mexico's National Institute of Ecology.
26. Margarita Caso Chávez. Director of Marine Conservation Programs at Mexico's National Institute of Ecology.
27. Xavier López-Medellín. Professor of Ecology at the Universidad Autónoma de Morelos, Cuernavaca, Mexico.
28. Alejandra Martínez-Berdeja. Postdoctoral researcher, University of California, Davis.

29. Sula Vanderplank. Botanical Explorer, Botanical Research Institute of Texas, US. Widely recognized as one of the most outstanding young field botanists in North America.
  30. Benjamin Wilder. Founder and leader of the “Next Generation Sonoran Desert Researchers”. Currently, he is Director of the historic Desert Laboratory at Tumamoc Hill, Arizona.
  31. Charlotte González-Abraham. GIS specialist, currently leading the Mexican chapter of an International IIASA project known as the FABLE Consortium (Food, Agriculture, Biodiversity, Land Use and Energy Pathways).
  32. Mariana Delgado. Currently a postdoctoral student at the University of California.
  33. Andrew Semotiuk. Currently a postdoctoral student at the Montreal Botanical Gardens, Montreal, Quebec, Canada.
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