

### **Education**

- Post-Doctoral Fellow. University of South Florida. 2010-2012.
- Post-Doctoral Fellow. Mote Marine Laboratory. 2006-2007.
- Ph.D. Biological Oceanography. University of South Florida. Fall 2006.
- M.S. Zoology. University of Florida. May 1999 (*Fulbright /LASPAU fellow*).
- Licenciatura. Biology. University of San Carlos. April 1993.

### **Skills**

- **Field skills** Marine mammal aerial surveys, boat surveys, photo-identification, focal follows, and bioacoustics. Surveys conducted for organizations such as the U.S. Florida Fish and Wildlife Conservation Commission, Mote Marine Laboratory, and Woods Hole Oceanographic Institute.
- **Languages** English (fluent), Spanish (native).

### **Fellowships**

- Fulbright /LASPAU Scholarship 1995-1997.
- Gulf Oceanographic Fellowship, College of Marine Science, University of South Florida 2001.
- The Lake Fellowship, College of Marine Science, University of South Florida 2003.
- Chicago Zoological Society/National Marine Fisheries Service 2002-2003.
- Garrels Fellowship, College of Marine Science, University of South Florida 2004.
- Y. Fustukjian Memorial Scholarship, USF Libraries, University of South Florida 2005.

### **Awards**

- Best Graduate Student Paper. 13th. International Reunion for the Study of Marine Mammals. Mexican Society of Marine Mammalogy 1998.

### **Consulting Experience**

- *United Nations Environment Programme (UNEP)*. 2006 – 2007.  
Responsible for developing the most recent management plan for the West Indian manatee in the entire Caribbean region. This involved preparing the guidelines and criteria for the research, management, and recovery of the manatee, a regionally endangered species. I coordinated and worked with scientists from more than 15 countries.
- *Universidad del Valle, National Oceanic and Atmospheric Agency (NOAA)*. 2007 –2009.  
Responsible for the first study of the abundance and distribution of cetaceans in the Guatemalan Exclusive Economic Zone. This study used over 10 years of data collected by NOAA in the Guatemalan Economic Exclusive Zone. The U.S. Marine Mammal Commission and the Chicago Board of Trade Endangered Species Fund provided funding to publish the results of the study.

### **Employment**

- Chief Scientist, marine mammal surveys. Anderson-Cabot Center for Ocean Life, New England Aquarium. January 2017 to present.
- Courtesy professor. University of South Florida, Department of Biological Sciences. October 2015-2016.
- Instructor. Johns Hopkins University, Center for Talented Youth. Summer 2015, 2016.
- Lecturer. Boston University. Department of Earth & Science. Spring 2016.

- Visiting professor (full time). University of South Florida, Department of Biological Sciences. Fall 2013 – June 2015.
- Adjunct professor. University of South Florida, Dep. of Biological Sciences. Fall 2011 – summer 2013.
- Adjunct professor. New College of Florida. Division of Natural Sciences. Fall 2012.
- Research associate (Post-Doctoral Fellow). University of South Florida, College of Marine Science. Fall 2010 – May 2012.
- Adjunct professor. Universidad del Valle, Dep. of Biology. Guatemala. January 2008 – May 2010.
- Senior scientist (Post-Doctoral Fellow). Mote Marine Laboratory, Center for Marine Mammal and Sea Turtle Research. January 2006 – June 2007.
- Research assistant. Sarasota Dolphin Research Program, Chicago Zoological Society. December 2004 – August 2005.
- Teaching assistant. University of South Florida, Dep. of Environmental Sciences. Fall 2003, 2004.
- Teaching assistant. University of South Florida, College of Marine Science. Fall 2000; fall 2001; spring 2001, 2003.
- Representative of College of Marine Science, USF Student Government. Fall 2002.
- Research assistant. University of South Florida, Coastal Estuarine Program. Fall 2000, spring 2002.
- Guest investigator. Woods Hole Oceanographic Institution. May - December 2000.
- Research assistant. Sarasota Dolphin Research Program, Chicago Zoological Society. August 1999 – August 2000.
- Research consultant. Mote Marine Laboratory. Fall 1999, spring 2000.
- Teaching assistant. University of Florida, Department of Biological Sciences. Fall 1997, 1998; spring, summer 1999.
- Teaching assistant. University of Florida, Department of Zoology. Spring 1997, 1998.
- Adjunct professor. Universidad de San Carlos, Biology School, Guatemala. Summer 1995; spring 1994, 1995.
- Adjunct professor. Universidad de San Carlos, Veterinary School, Guatemala. Spring, summer 1994.
- Laboratory assistant. Herbarium, Center for the Studies of Conservation, Universidad de San Carlos. Spring, summer, fall 1991.

### Relevant Scientific Publications/Reports

- **Quintana-Rizzo, E.** *In press*. Distribution, abundance, and behavior of roqual whales with emphasis on humpback whale behavior in Guatemala. Book chapter. In: *Perspectivas de Investigación sobre Mamíferos Silvestres de Guatemala*. Asociación Guatemalteca de Mastozoología.
- **Quintana-Rizzo, E.,** L. García, R. López, S. Tobar and A. López. 2017. First record of a Galapagos fur seal (*Arctocephalus galapagoensis*) in Guatemala. *Marine Biodiversity Records* 10:24 <https://doi.org/10.1186/s41200-017-0126-x>
- **Quintana-Rizzo, E.** and R.S. Wells. 2016. Behavior of a non-related female bottlenose dolphin (*Tursiops truncatus*) towards the calf of her associate. *Aquatic Mammals* 42:198-202. DOI: 10.1578/AM.42.2.2016.198
- **Quintana-Rizzo, E.,** J. Torres, S.W. Ross, I. Romero, K. Watson, E. Goodard, and D. Hollander. 2015. Changes in d13C and d15N in deep-living fishes and shrimps after the Deepwater Horizon oil spill, Gulf of Mexico. *Journal of Experimental Marine Biology and Ecology*. 94:241-50. <http://dx.doi.org/10.1016/j.marpolbul.2015.02.002>
- **Quintana-Rizzo, E.** 2014. Illegal harpooning and incidental entanglement of wild dolphins in the Pacific Coast of Guatemala. *Latin American Journal of Aquatic Mammal* 9:179-182 <https://dx.doi.org/10.55.97/lajam00187>
- Castelblanco-Martínez, D.M., C. Nourisson, **E. Quintana-Rizzo,** J.A. Padilla-Saldivar, and J.J. Schmitter-Soto. 2012. Potential effects of human pressure and habitat fragmentation on population

- viability of the Antillean manatee *Trichechus manatus manatus*: A predictive model. *Endangered Species* 18:129-145 <https://doi.org/10.3354/esr00439>
- Simard, P., Lace, N., S. Gowans, **E. Quintana-Rizzo**, S. Kuczaj II, R. Wells, and D. Mann 2011. Low frequency narrow-band calls in bottlenose dolphins (*Tursiops truncatus*): signal properties, function and conservation implications. *Journal of the Acoustic Society of America*. *Journal of the Acoustic Society of America* 130:3068–3076 <https://doi.org/10.1121/1.3641442>
  - **Quintana-Rizzo, E.** 2011. Status and ecology of cetacean populations in the Pacific Ocean of Guatemala. Consejo Nacional de Ciencia y Tecnología. 105 pp.
  - **Quintana-Rizzo, E.** and J.R. Reynolds III. 2010. Management plan for the West Indian Manatee (*Trichechus manatus*). United Nations Environmental Program. <https://www.fws.gov/caribbean/PDF/ManateeManagementPlan.pdf>
  - **Quintana-Rizzo, E.**, and O. Machuca. 2010. Scientific monitoring for the conservation of manatees and their habitat. FONACON Fundación Defensores de la Naturaleza. Proyecto No. F10/2006. 99 p.
  - **Quintana-Rizzo, E.** and T. Gerrodette. 2009. First study of the abundance and distribution of cetaceans in the Guatemalan Exclusive Economic Zone. Report prepared for Chicago Board of Trade Endangered Species Fund, Chicago Zoological Society. Guatemala, Guatemala October 8, 2009. 66 pp.
  - **Quintana-Rizzo, E.** 2009. Human-related problems affecting wild dolphin populations in the Pacific Coast of Guatemala. SC/61/SM28 IWC Scientific Committee, June 2009. Madeira, Portugal.
  - **Quintana-Rizzo, E.**, O. Machuca, and Z. Walker. 2008. First orphan manatee calf (*Trichechus manatus manatus*) recovered in Guatemala and transported to Belize for rehabilitation. *Sirenew Newsletter of the IUCN Sirenia Specialist Group* 50:11-14.
  - **Quintana-Rizzo, E.**, D.A. Mann, and R.S. Wells. 2006. Estimated acoustic communication range of social sounds used by bottlenose dolphins (*Tursiops truncatus*). *Journal of the Acoustic Society of America* 120:1671-1683 <https://doi.org/10.1121/1.2226559>
  - **Quintana-Rizzo, E.** 2005. Synoptic study of the distribution and relative abundance of manatees (*Trichechus manatus*) in the Gulf of Honduras during May-June 2005. Conservation project and regional management of marine resources in the Gulf of Honduras AIDCO/B7-6200/01/0373/ENV. Comitato Internazionale per lo Sviluppo del Popoli. 33 p.
  - **Quintana-Rizzo, E.** 2005. Distribution and number of manatees using the Guatemalan Atlantic coast waters. Synoptic study. Technical report. University of South Florida. May 2005. 18 p.
  - Fripp, D., C. Owen, **E. Quintana-Rizzo**, A. Shapiro, K. Buckstaff, R.S. Wells, and P. Tyack. 2004. Bottlenose dolphin (*Tursiops truncatus*) calves appear to model their signature whistle on the signature whistles of community members. *Animal Cognition* 8:17-26 <https://doi.org/10.1007/s10071-004-0225-z>
  - Herrera, F., **E. Quintana-Rizzo**, K. Sandoval, and J.L. López. 2004. Management plan for the conservation of manatees in Guatemala. National Commission of Protected Areas, Guatemalan Government.
  - **Quintana-Rizzo, E.** and R.S. Wells. 2001. Resighting and association patterns of bottlenose dolphins (*Tursiops truncatus*) in the Cedar Keys, Florida: insights into social organization. *Canadian Journal of Zoology* 79:447-456 <https://doi.org/10.1139/z00-223>

### **Environmental Publications**

- **Quintana-Rizzo, E.** 2004. Dynamics of group fission-fusion: What is a temporary group in the bottlenose dolphin (*Tursiops truncatus*)? *Sarasota Dolphin Research Newsletter*.
- **Quintana-Rizzo, E.** 2003. Dynamics of group Fission-Fusion: Acoustic mechanisms used by individual bottlenose dolphins (*Tursiops truncatus*) to leave and join a temporary group. *Sarasota Dolphin Research Newsletter*.
- **Quintana-Rizzo, E.** 2000. Social influences on vocal development in wild bottlenose dolphins. *Sarasota Dolphin Research Newsletter*.

- **Quintana-Rizzo, E.** 1999. Associations and habitat use by resident and non-resident bottlenose dolphins in the Cedar Keys, Florida. Sarasota Dolphin Research Newsletter.

### Presentations at Meetings

- **Quintana-Rizzo, E.** and J. Calambokidis. 2017. Resighting patterns and behavior of humpback whales sighted in a tropical breeding ground off Guatemala. 22<sup>nd</sup> Biennial Conference on the Biology of Marine Mammals. October 22-27, Halifax, Canada.
- **Quintana-Rizzo, E.** 2016. *Invited speaker.* Ecology of whales and dolphins in Guatemala with emphasis on coastal species and whale-watching regulations. Workshop “Review of guidelines and regulations for whale and dolphin watching”. Alianza de Derecho Ambiental y Agua. December 7, 2016, Guatemala City, Guatemala.
- **Quintana-Rizzo, E.,** H. Edwards, A. Ubeda, B. Morales, Z. Walker, and N. Casteblanco. 2015. First synoptic aerial survey of Antillean manatees (*Trichechus manatus manatus*) in the Mexico-Belize-Guatemala region of Central America. 7<sup>th</sup> International Sirenian Symposium in conjunction with the 21<sup>st</sup> Biennial Conference on the Biology of Marine Mammals. December 13, 2015, San Francisco, California.
- **Quintana-Rizzo, E.** 2015. *Invited speaker.* State of knowledge of the marine mammals of Guatemala. First Meeting of the Network of Aquatic Mammal Specialists of Central America and the Caribbean at the 21<sup>st</sup> Biennial Conference on the Biology of Marine Mammals. December 12, 2015, San Francisco, California.
- **Quintana-Rizzo, E.** 2015. *Invited speaker.* Manatee synoptic aerial survey conducted in the Mexico-Belize-Guatemala region. Manatee Regional Monitoring in the Mesoamerican Reef Region. MARFUND and LightHawk. October 22-23, 2015, Guatemala City, Guatemala.
- **Quintana-Rizzo, E.** 2014. *Invited speaker.* Distribution and abundance of cetaceans in the Economic Exclusive Zone of Guatemala. Second Symposium of Mammalogy. November 18-19, Guatemala City, Guatemala.
- Romero, I., D.J. Hollander, G.R. Brooks, W., Patterson, S. Murawski, S.W. Ross, J.J. Torres, A.S. Kane, S. Schwing, **E. Quintana-Rizzo,** R.A. Larson, E.A. Goddard, and N. Zenzola. 2013. Tracking the persistence of polycyclic aromatic hydrocarbons from the Deepwater Horizon blowout: from deep-sea sediments to fish communities, northern Gulf of Mexico. 26<sup>th</sup> International Meeting on Organic Geochemistry. September 16-20, 2013. Canary Islands, Spain.
- Romero, I. D.J. Hollander, W. Patterson, S.W. Ross, A.S. Kane, S. Murawski, **E. Quintana-Rizzo,** E.B. Peebles, E.A. Goddard, and J.J. Torres. 2013. Spatio-temporal concentrations and composition of polycyclic aromatic hydrocarbons in fish: evidence for Deepwater Horizon oil spill impact on mesopelagic and outer shelf-reef fish in the Gulf of Mexico. 2013 Gulf of Mexico Oil Spill & Ecosystem Science Conference. January 21-23, 2013. New Orleans, Louisiana.
- Ombres, E.H., **E. Quintana Rizzo,** and J.J. Torres. 2012. Habitat preference of *Pleurogramma antarcticum*, *Electrona antarctica* and *Euphasia superba* along the Western Antarctic Peninsula using stable isotope signatures. 2012 Ocean Sciences Meeting. February 20-24, 2012. Salt Lake City, Utah.
- **Quintana-Rizzo, E.** 2011. Resighting patterns of coastal spotted dolphins (*Stenella attenuata graffmani*) along the Pacific coast of Guatemala. 19<sup>th</sup> Biennial Marine Mammal Conference, November 26-December 2, 2011, Tampa, Florida.
- **Quintana-Rizzo, E.** 2011. *Invited speaker.* Overview of manatees and their conservation status in Latin America. First Symposium of Mammalogy. March 9-10, 2011. Guatemala City, Guatemala.
- **Quintana-Rizzo, E.** 2011. Cetaceans in Guatemala. First Symposium of Mammalogy. March 9-10, Guatemala City, Guatemala.
- **Quintana-Rizzo, E.,** T. Gerrodette and J. Calambokidis. 2010. Cetacean distribution and abundance with emphasis on humpback whale sightings in the Economic Exclusive Zone in the Pacific Ocean of Guatemala. 14th Meeting of Specialists in Aquatic Mammals from South America and 7th Congress

- of the Latin American Society of Specialists in Aquatic Mammals. October 24-27, 2010. Florianopolis, Brazil.
- **Quintana-Rizzo, E.** 2010. *Invited speaker*. Rehabilitation of manatees in Guatemala. 14th Meeting of Specialists in Aquatic Mammals from South America and 7th Congress of the Latin American Society of Specialists in Aquatic Mammals. October 24-27, 2010. Florianopolis, Brazil.
  - **Quintana-Rizzo, E.** 2010. *Invited speaker*. Combined use of field techniques to study manatee activity budgets, communication and genetic relationships. Workshop on the study of wild manatee populations. June 21-24, 2010. La Havana, Cuba.
  - **Quintana-Rizzo, E.** 2010. *Invited speaker*. Experience gained in the developing of research work on manatee in Guatemala. Workshop on the study of wild manatee populations. June 21-24, 2010. La Havana, Cuba.
  - **Quintana-Rizzo, E.** and J. Powell. 2010. Conservation status of manatees in the Caribbean and Florida. Workshop on the study of wild manatee populations. June 21-24, 2010. La Havana, Cuba.
  - **Quintana-Rizzo, E.** and T. Gerrodette. 2009. First study of the abundance and distribution of cetaceans in the Guatemalan Exclusive Economic Zone. 18<sup>th</sup> Biennial Marine Mammal Conference, October 12-16 2009, Quebec, Canada.
  - **Quintana-Rizzo, E.,** B. Morales, N. Auil, A. Alvarez, and O.S. Reynoso. 2009. *Invited speaker*. Status of manatees in the Caribbean Islands & the role of marine protected areas in the conservation of this endangered species. Sirenian Workshop at the First International Marine Conservation Congress, May 21-23, Washington, D.C.
  - Morales, B. and **E. Quintana-Rizzo**. 2009. *Invited speaker*. Marine Protected Areas in Mesoamerica and the conservation of manatees. Sirenian Workshop at the First International Marine Conservation Congress, May 21-23, Washington, D.C.
  - **Quintana-Rizzo, E.** and T. Gerrodette. 2008. First study of the abundance and distribution of cetaceans in the Guatemalan Exclusive Economic Zone. 31<sup>st</sup> Annual International Reunion for the Study of Marine Mammals, 18-22 May, 2008, Baja California, Mexico
  - **Quintana-Rizzo, E.** and R. Wells. 2007. The definition of a group in species with fluid relationships: the case of the bottlenose dolphin (*Tursiops truncatus*). 17<sup>th</sup>. Biennial Marine Mammal Conference, November 2007, Cape Town, South Africa.
  - **Quintana-Rizzo, E.** 2007. Group fission-fusion dynamic in the bottlenose dolphin and conservation of manatee in the Wider Caribbean region. Conference Health and Environment: Building the Future. September 18-19, Guatemala City, Guatemala.
  - **Quintana-Rizzo, E.,** D. Mann, and R. Wells. *Invited speaker*. 2007. Communication range of social sounds in the bottlenose dolphin (*Tursiops truncatus*). 3<sup>rd</sup> Congress of the National Commission of Science and Technology, Convergencia. July 24-27, Guatemala City, Guatemala.
  - **Quintana-Rizzo, E.** *Invited speaker*. 2006. Status of manatees (*Trichechus manatus*) in Guatemala. 1<sup>st</sup>. Symposium for the Biology and Conservation of the Antillean Manatee (*Trichechus manatus manatus*) in Mesoamerica. November 1-2 2006, Antigua Guatemala, Guatemala.
  - Carney, S., E. Bolen, M. Tringali, J.E. Reynolds III and **E. Quintana-Rizzo**. 2006. Sampling methods to extract and develop DNA satellite markers for Florida manatees *Trichechus manatus latirostris*. 1<sup>st</sup>. Symposium for the Biology and Conservation of the Antillean Manatee (*Trichechus manatus manatus*) in Mesoamerica. November 1-2 2006, Antigua Guatemala, Guatemala.
  - **Quintana-Rizzo, E.,** D. Mann, and R.S. Wells. *Invited speaker*. 2006. Communication range of social sounds in the bottlenose dolphin (*Tursiops truncatus*). 10<sup>th</sup> Congress of the Mesoamerican Society for Biology and Conservation. Oct. 30 -Nov. 2, Antigua Guatemala, Guatemala.
  - **Quintana-Rizzo, E.,** D. Mann, and R. Wells. 2005. Communication range of social sounds in the bottlenose dolphin (*Tursiops truncatus*). 16<sup>th</sup> Biennial Marine Mammal Conference, December 2005, San Diego, California.

- **Quintana-Rizzo, E.,** N. Auil and C. Romero. 2005. Distribution and relative abundance of manatees (*Trichechus manatus*) in the Gulf of Honduras. 16th Biennial Marine Mammal Conference, December 2005, San Diego, California.
- **Quintana-Rizzo, E.** and R.S. Wells. 2004. What is a group in a fission-fusion society? Identification of associates and satellite individuals in the proximity of wild bottlenose dolphins (*Tursiops truncatus*). 41<sup>st</sup> Annual Meeting of the Animal Behavior Society, June 12-16, 2004, Oaxaca, Mexico.
- **Quintana-Rizzo, E.** *Invited speaker.* 2003. Current status of manatees in Guatemala. 2<sup>nd</sup> Workshop for the development of the Guatemalan Manatee Recovery Plan. National Commission of Protected Areas, October 2003, Guatemala City, Guatemala.
- Fripp, F., C. Owen, **E. Quintana-Rizzo,** K. Buckstaff, K. Jankowski, A. Shapiro, and P. Tyack.. 2003. Bottlenose dolphin (*Tursiops truncatus*) calves model their signature whistles on the whistles of community members they rarely hear. 1<sup>st</sup> International Conference on Acoustic Communication in Animals, July 27-30, 2003, College Park, Maryland.
- Fripp, D., C. Owen, **E. Quintana-Rizzo,** K. Buckstaff, K. Jankowski, A. Shapiro, and P. Tyack. 2001. Bottlenose dolphin calves imitate whistles of associates. 14<sup>th</sup> Biennial Marine Mammal Conference, December 2001, Vancouver, Canada.
- **Quintana-Rizzo, E.** and R.S. Wells. 2001. Associations and habitat use patterns of bottlenose dolphins, *Tursiops truncatus*, in the Cedar Keys, Florida. 22<sup>nd</sup> Annual Graduate Student Symposium, College of Marine Science, University of South Florida, May 2001, St., Petersburg, FL.
- **Quintana-Rizzo, E.,** R.S. Wells, and J.F. Eisenberg. 2000. Associations of residents and non-residents bottlenose dolphins, *Tursiops truncatus*, in the Cedar Keys, Florida. 32<sup>th</sup> Annual Animal Behavior Society Meeting, 5-10 August 2000, Atlanta, Georgia.
- **Quintana-Rizzo, E.** 2000. *Invited speaker.* Manatee distribution and abundance in the Gulf of Honduras region. Comisión Nacional de Áreas Protegidas. Guatemala, January 2000.
- **Quintana-Rizzo, E.,** R.S. Wells, and J.F. Eisenberg. 1999. Associations of residents and non-residents bottlenose dolphins, *Tursiops truncatus*, in the Cedar Keys, Florida. 13<sup>th</sup> Biennial Conference of the Society of Marine Mammalogy, 28 November-4 December 1999, Maui, Hawaii.
- **Quintana-Rizzo, E.,** J.F. Eisenberg, and R.S. Wells. 1998. Spatial and temporal habitat use of bottlenose dolphins, *Tursiops truncatus*, in the Cedar Keys, Florida. 7<sup>th</sup> Annual Atlantic Coastal Dolphin Conference, 19-21 March 1998, Virginia Beach, Virginia.
- **Quintana-Rizzo, E.** 1998. Residence and associations patterns of bottlenose dolphins, *Tursiops truncatus*, in the Cedar Keys, Florida. 6<sup>th</sup> Annual Atlantic Coastal Dolphin Conference, 1-3 May 1998, Sarasota, Florida.
- **Quintana-Rizzo, E.,** J.F. Eisenberg, and R.S. Wells. 1998. Habitat use patterns by bottlenose dolphins, *Tursiops truncatus*, in the Cedar Keys, Florida. 23<sup>rd</sup> Annual International Reunion for the Study of Marine Mammals, 20-24 April 1998, Quintana Roo, Mexico.
- **Quintana, E.** *Invited speaker.* 1998. Manatee population in the Gulf of Honduras. Commission of Central American Environment and Development, Guatemala. 12-13 January 1998, Guatemala.
- **Quintana-Rizzo, E.,** J. Matute, and O. Lara. 1994. Distribution and abundance of manatees (*Trichechus manatus*) in Guatemala. 1<sup>st</sup> International Manatee and Dugong Conference, April 1994, Gainesville, Florida.

### **Environmental Education Presentations**

- The biology of the bottlenose dolphin. Oceanography class, Saint Petersburg College in Tarpon Springs. November 2003, Tarpon Spring, Florida.
- Manatees in Guatemala. Aquatic Ecology class, Universidad del Valle. October 2003, Guatemala City, Guatemala.
- The biology of the bottlenose dolphin. Aquatic Ecology class, Universidad del Valle. October 2003, Guatemala City, Guatemala.
- Marine mammals. Biological Oceanography, University of South Florida. Fall 2002-2003.

- Ecology of bottlenose dolphins. Florida Camp for Children and Youth with Diabetes, Ecology by the Sea. June 1997, St. Augustine, Florida.

### **Countries/regions in which I have conducted research or helped to develop management plans**

- Guatemala, Belize, Mexico, Honduras, Costa Rica, Panama, Brazil, United States and Antarctica.

### **Research Grants**

- Fondo Nacional para la Conservación de la Naturaleza, Guatemalan Government. Manatee research, Guatemala. \$48,000. 2009-2011.
- Fondo Nacional de Conservación, Guatemalan Government. Cetacean research, Guatemala \$20,000. 2010.
- Society for Marine Mammalogy, Small Grants In Aid of Research. 2009.
- Rufford Small Grant for Nature Conservation. Cetacean research, Guatemala. \$9,680. 2009.
- U.S. Marine Mammal Commission. Cetacean research, Guatemala. \$1,212. 2009.
- U.S. Marine Mammal Commission. Conference travel grant, Guatemala. \$2,000. 2009.
- Cetacean Society International. Cetacean research, Guatemala. \$1,320.00. 2009.
- PADI Foundation. Cetacean research, Guatemala. \$6,250.00. 2008.
- Chicago Zoological Society: Chicago Board of Trade Endangered Species Fund. Cetacean research, Guatemala. \$4,790.00. 2007.
- CONCYT, Guatemalan Government. Cetacean research, Guatemala. \$25,000. 2007.
- Idea Wild, Colorado, Cetacean research, Guatemala. \$850. 2007.
- Sigma Xi, Florida. Cetacean research, Florida. \$840. 1999.
- Idea Wild, Colorado. Manatee research, Guatemala. \$800. 1994.
- Shell Exploration Guatemala. Manatee research, Guatemala. +\$10,000. 1993.

### **Students Major Professorship**

- Grecia Méndez, Licenciatura Degree in Biology. Universidad del Valle de Guatemala, Graduation: December 2012.
- Oscar Machuca, Licenciatura Degree in Biology. Universidad de San Carlos de Guatemala, Graduation: April 2015.

### **Teaching Experience**

- Whales and Estuary Systems. Lecture. Johns Hopkins University. Summer 2015, 2016.
- Marine Biogeochemistry. Lecture. Boston University. Spring 2016.
- Marine Mammals: Life in the Sea. Adjunct Professor. Dean College. Fall 2015.
- Introductory Biochemistry. Lecture. University of South Florida. Spring 2012, 2013, 2014; summer 2012, 2013, 2014, 2015; fall 2013, 2014.
- General Physiology. Lecture and Laboratory. University of South Florida. Spring 2013, 2014, 2015; fall 2013, 2014; summer 2015.
- Senior Seminar in Biology. Lecture. University of South Florida. Fall 2014; spring 2015.
- Marine Mammals Seminar. Lecture, Laboratory. University of South Florida. Summer 2013, 2014.
- Environment. Lecture. University of South Florida. Fall 2011, 2012, 2013; spring 2012, 2013, 2014; summer 2012, 2013.
- General Biology. Lecture. New College of Florida. Fall 2012.
- Environmental Issues. Lecture. University of South Florida. Fall 2012.
- Introduction to the Environment. Lecture. University of South Florida. Fall 2011.
- Biology of Marine Mammals. Lecture, Laboratory. Universidad del Valle de Guatemala. Spring 2008, 2010.
- Earth Sciences. Lecture. Universidad del Valle de Guatemala. Spring 2008, 2009, 2010.
- Environmental Sciences. Lecture. Universidad del Valle de Guatemala. Fall 2009.
- Biology II and II. Lecture and Laboratory. Universidad del Valle de Guatemala. Fall 2008, 2009.

- Biology. Teaching assistant. University of South Florida. Fall 2003, 2004.
- Ichthyology. Teaching assistant. University of South Florida. Spring 2003.
- Biological Oceanography. Teaching assistant. University of South Florida. Fall 2001.
- Biology of Cetaceans. Lecture, teaching assistant. University of South Florida. Spring 2001.
- Invertebrate Physiology. Teaching assistant. University of South Florida. Fall 2000.
- General Biology II. Teaching assistant. University of Florida. Fall 1997,1998; spring, summer 1999.
- Vertebrate Zoology. Teaching assistant. University of Florida. Spring 1997, 1998.
- Animal Physiology. Lecture. Universidad de San Carlos, Guatemala. Summer 1994, 1995.
- Mammalogy. Lecture and Laboratory. Universidad de San Carlos, Guatemala. Spring 1995.
- Zoology I. Guest lecture. Universidad de San Carlos, Guatemala. Spring 1995.
- Organic Chemistry. Lecture. Universidad de San Carlos, Guatemala. Summer 1994.
- Biochemistry. Lecture. Universidad de San Carlos, Guatemala. Spring 1994.

### **Professional Societies: Membership and Committees**

- Newsletter Director of Sirenian International. 2004 - 2005.
- Board of Directors Sirenian International. 2000 – 2005
- Sirenia Specialist Group. International Union for the Conservation of Nature. 1995 - Present.
- Society for Marine Mammalogy. Member. 1995 – Present.

### **Service**

- Peer reviewer: Animal Behavior and Cognition, Ethology, Aquatic Mammals, Biological Conservation, Brazilian Journal of Oceanography, Journal of the Marine Biological Association (JMBA), Latin American Journal of Aquatic Mammals, Interciencia, and Marine Mammal Science.
- Member of the Guatemalan Manatee Recovery Plan Team.
- Organizer and Member of the Scientific Program Committee. 1<sup>st</sup> Symposium of Aquatic Mammal Experts of Central America and the Caribbean held in conjunction with the 21<sup>st</sup> Biennial Conference on the Biology of Marine Mammals. December 13, 2016, San Francisco, California.
- Member of the Scientific Program Committee. 19<sup>th</sup> Biennial Marine Mammal Conference, November 26-December 2, 2011, Tampa, Florida.
- Chair of the Behavior Session. 19<sup>th</sup> Biennial Marine Mammal Conference, November 26-December 2, 2011, Tampa, Florida.
- Organizer and Member of the Scientific Program Committee. 19<sup>th</sup> Biennial Marine Mammal Conference, November 26-December 2, 2011, Tampa, Florida.
- Conference Organizer. 1<sup>st</sup>. Symposium for the Biology and Conservation of the Antillean Manatee in Mesoamerica. November 1-2 2006, Antigua Guatemala, Guatemala.

### **Interviews**

- Marine monument an area teeming with life. Cape Code Times. November 21, 2017.
- Cetaceans in captivity. Primer Impacto, UNIVISION Spanish Cable Television. March 2011, St. Petersburg, FL.
- First Guatemalan woman in Antarctica. Newspaper: Prensa Libre: Revista Domingo. May 2002, Guatemala.
- First biologist in Antarctica. Newspaper: Revista de la Universidad de San Carlos (Magazine of the University of San Carlos). June 2002, Guatemala.
- Animal intelligence. Internationally Syndicated Radio Program: Mundo 2000. October 1999, Washington, D.C.
- All about dolphins. University of Florida Alumni Magazine. April 1999, Gainesville, FL.
- The dolphins of the Cedar Keys. Florida Sea Grant, University of Florida. October 1998, Gainesville, FL.
- Manatees in Guatemala. CNN International. May 1995, Guatemala.