

Antonio A. Mignucci-Giannoni PhD VT

PO Box 362673 San Juan, Puerto Rico 00936-2673

• 787-400-2782

• mignucci@manatipr.org

EDUCATION

2017	VT	Veterinary Technician (Associate of Science Degree), Penn Foster College
1998		Postdoctoral Fellow —Sirenia Project USGS Biological Resources Division Florida Caribbean Science Center, Gainesville, Florida
1996	PhD	Doctor of Philosophy in Marine Sciences (Biological Oceanography) University of Puerto Rico, Mayagüez
1989	MA	Master of Arts in Marine Affairs, The University of Rhode Island
1986	BS	Bachelor of Science , Major in Zoology, Colorado State University

HONORS

2013 to present		Member—Editorial Board , Caribbean Naturalist
2010 to present		Adjunct Researcher/Faculty —Veterinary Services and Conservation Medicine Department, Georgia Aquarium, Atlanta, Georgia
2008 to present		Research Associate —Fundación Omacha, Bogotá, Colombia
2004		Citizen of the Year Award Puerto Rico Environmental Quality Board, San Juan, Puerto Rico
2004		Environmental Quality Award US Environmental Protection Agency, New York
2001 to 2014		Science Judge —Premios El Nuevo Día Educador, San Juan, Puerto Rico
2001 to present		Member —Scientific Advisory Council, Sirenian International Fredericksburg, Virginia
2001 to present		Adjunct Faculty —School of Veterinary Medicine, St. George's University, Grenada
1998 - 2001		Member—Editorial Board , Caribbean Journal of Science University of Puerto Rico, Mayagüez, Puerto Rico
1994 to present		Executive Member —Sirenian Specialist Group, Species Survival Commission, IUCN—The World Conservation Union, Gland, Switzerland
1992 to present		Honorary Ranger (Captain) Department of Natural and Environmental Resources, San Juan, Puerto Rico

WORK EXPERIENCE

2013 to present	Full Professor Director—Puerto Rico Manatee Conservation Center Inter American University of Puerto Rico, Bayamón, Puerto Rico
2009 to 2013	Research Professor Director—Puerto Rico Manatee Conservation Center Inter American University of Puerto Rico, Bayamón, Puerto Rico
2006	Lecturer, Oceanography—Honor's Program University of Puerto Rico, San Juan, Puerto Rico
2005 to 2009	President and Principal Investigator Antonio Mignucci Investigación Ambiental, San Juan, Puerto Rico
2004-2005	Full Professor—Department of Science and Technology Director—Caribbean Marine Mammal Laboratory Universidad Metropolitana, San Juan, Puerto Rico
1998 to 2004	Associate Professor—Department of Science and Technology Director—Caribbean Marine Mammal Laboratory Universidad Metropolitana, San Juan, Puerto Rico
1997 to 1998	Lecturer—Environmental Sciences Program University of Puerto Rico, San Juan, Puerto Rico
1996 to 1997	Assistant Professor—Department of Biology University of Puerto Rico, San Juan, Puerto Rico
1989 to present	President and Executive Director Red Caribeña de Varamientos • Caribbean Stranding Network, San Juan, Puerto Rico

Academic teaching and supervision

Teaching interests include marine biology, oceanography, aquatic animal health, marine mammalogy, marine affairs, zoology, biology and environmental sciences.

Professor of graduate courses including Biology and Conservation of Marine Mammals, Marine Biology Seminar, Special Topics in Biology: Ecological and Molecular Tools for Conservation.

Professor of undergraduate courses including Biological Oceanography, Biology of Marine Mammals, Biology of Marine Mammals, Turtles and Birds, Case Studies in Environmental Sciences, Diving in Marine Sciences, Experiences in Environmental Community Service, Fundamentals of Oceanography (Oceanology), General Biology, Integrated Laboratory in Environmental Sciences, Introduction to Oceanography (Oceanology), Marine Affairs, Marine Biology, Marine Biology Laboratory, Marine Mammal Seminar, Marine Research, Nautical Sciences, Oceanography, Practicum in Marine Sciences, Practicum on Endangered Marine Vertebrates, Sciences Technology and Environment, Special Topics in Environmental Sciences, Special Topics in Marine Biology, and Undergraduate Research in Environmental Sciences.

Professor of two high school courses at Cupeyville School (General Biology) and St. John's School (Marine Biology).

Preparation, approval and implementation of undergraduate minor programs in marine sciences and pre-veterinary medicine, and an undergraduate Bachelor of Science in Marine Sciences program.

Thesis supervisor of 20 students in advance degrees (veterinary degree and master's degree) since 1992 at Inter American University of Puerto Rico, California State University (Moss Landing Marine Laboratories), Universidad de la Salle

(Colombia), Universidad de los Andes (Colombia), Universidad Metropolitana, Universidad Nacional (Colombia), Universidad Nacional de la Amazonia Peruana (Peru), Universitat Autònoma de Barcelona (Spain), Universidad de Córdoba (Colombia), Universidad Autónoma de México, and University of Puerto Rico.

Academic supervisor and research mentor to over 70 undergraduate students at University of Puerto Rico, Universidad Metropolitana and Inter American University of Puerto Rico since 1996 in their interest in pursuing marine biology, marine sciences, veterinary medicine or zoology as a career and in doing field and laboratory research.

International Instruction

Instructor of over 20 international courses about marine mammal biology, strandings, salvage and rescue since 1990 in Aruba, British Virgin Islands, Colombia, Costa Rica, Cuba, Dominican Republic, Mexico, Peru, Puerto Rico, US Virgin Islands and Venezuela.

Environmental Consultant

Aquarium and delphinarium development consultant for Quest Global Management (1997-2006), Agrait Betancourt Arquitectos (2005), and Colliers International (2006), CEB Arquitectos and Andrés Mignucci Arquitectos (2006-2007), and Municipio de Carolina (2008-2009).

Marine environmental and endangered and protected species consultant for Puerto Rico's Department of Natural and Environmental Resources (1994), Fish and Wildlife Service's Caribbean Field Office (1995), Jamaica's Natural Resources Conservation Authority (1994), Geo-Marine Incorporated (1999-2002), Puerto Rico's Environmental Quality Board (2000), Ecoeléctrica (2000-2012), Vance Vicente y Asociados (2002-2012), AES Puerto Rico (2003-2004), San Juan Bay Estuary Program (2004), CSA Group (2004), La Cala Turística de Dorado (2005), Dominican Republic's Acuario Nacional (1994, 1998, 2007-present), Perú's Neotropical Fauna (2007), Colombia's Fundación Omacha (2007-present), Dos Mares S.E. (2007), The Dallas World Aquarium (2007-2008), Perú's Asociación para la Conservación de la Biodiversidad Amazónica (2007-present), LXR Luxury Resort and Hotels-El Conquistador (2007), Ecosystems & Associates (2007), TI Wholesale Service PR and The Louis Berger Group Inc. (2007-2008), Atkins Caribe [PBJ&S] (2010-2012), Taiwan's Farglory Ocean Park (2011), Wildlife Conservation Society-Gabon, Africa (2011).

PUBLICATIONS

Books (4)

- Rosso MC, **Mignucci-Giannoni AA**, Trujillo F, Duque L, Becerra C, Ortiz E, Caicedo-Herrera D. 2017 (en imprenta). Guía para la atención de varamientos de mamíferos acuáticos en Colombia. Ministerio de Ambiente y Desarrollo Sostenible, Asocars & Fundación Omacha, 60 pp.
- Hines E, Reynolds III JE, Aragonés LV, **Mignucci-Giannoni AA**, Marmontel M (eds.). 2012. *Sirenian Conservation: Issues and Strategies in Developing Countries*. Gainesville, Florida: University Press of Florida, 326 pp.
- Mignucci A**. 2011. *Aunque viva en el agua*. Ediciones SM, 31pp.
- Mignucci A**. 2010. *El manatí de Puerto Rico*. Red Caribeña de Varamientos & Universidad Interamericana de Puerto Rico, 57pp.

Dissertation, thesis and major papers (4)

- Mignucci-Giannoni AA**. 1996. *Marine mammal strandings in Puerto Rico and the United States and British Virgin Islands*. Doctoral dissertation. Mayagüez, Puerto Rico: University of Puerto Rico, 247 pp.
- Mignucci-Giannoni AA**. 1989. *Zoogeography of marine mammals in Puerto Rico and the Virgin Islands*. Master's thesis. Kingston, Rhode Island: University of Rhode Island, 448 pp.
- Mignucci-Giannoni AA**. 1985. *A preliminary study of marine mammals of the island of Puerto Rico*. Bachelor's degree independent study. Fort Collins, Colorado: Colorado State University, Natural History Society of Puerto Rico, Marine Mammal Research Foundation of Puerto Rico.
- Mignucci-Giannoni AA**. 1984. *Towards a more rational and descriptive nomenclature: An etymological analysis of cetaceans*. Bachelor's degree independent study. Fort Collins, Colorado: Colorado State University, 190 pp.

Peer-reviewed publications (66)

2015 (1)

Butterfield JSS, Díaz-Ferguson E, Silliman BR, Saunders JW, Buddo D, **Mignucci-Giannoni AA**, Searle L, Allen AC, Hunter ME. 2015. Wide-range phylogeographic structure of invasive red lionfish in the Western Atlantic and Greater Caribbean. *Marine Biology* 162:773-781.

2014 (4)

Bolaños-Jiménez J, **Mignucci-Giannoni AA**, Blumenthal J, Bogomolni A, Casas JJ, Henríquez A, Iñíguez Bessega M, Khan J, Landrau-Giovanetti N, Rinaldi C, Rinaldi R, Rodríguez-Ferrer G, Suttly L, Ward N, Luksenburg JA. 2014. Distribution, feeding habits and morphology of killer whales *Orcinus orca* in the Caribbean Sea. *Mammal Review* 44(3-4):177-189.

Landrau-Giovanetti N, **Mignucci-Giannoni AA**, Reidenberg JS. 2014. Acoustical and anatomical determination of sound production and transmission in West Indian (*Trichechus manatus*) and Amazonian (*T. inunguis*) manatees. *Anatomical Record* 297(10): 1896-1907.

Shin-je G, Joh J, **Mignucci-Giannoni AA**, Rivera-Guzmán AL, Falcón-Matos L, Alsina-Guerrero MM, Rodríguez-Villanueva M, Jenson AB, Bossart GD. 2014. Genital papillomatosis associated with two novel mucosotropic papillomaviruses from a Florida manatee (*Trichechus manatus latirostris*). *Aquatic Mammals* 40(2):195-200.

Tellez R, **Mignucci-Giannoni AA**, Cabellero SJ. 2014. Initial description of short-finned pilot whale (*Globicephala macrorhynchus*) genetic diversity from the Caribbean. *Biochemical Systematics and Ecology* 56:196-201.

2013 (1)

Caicedo-Herrera D, Mona-Sanabria Y, Espinosa-Forero R, Barbosa-Cabanzo J, Farias-Curtidor N, Gongora-Correa N, Alvarez-Cardenas C, Gonzalez-López AC, **Mignucci-Giannoni AA**, Trujillo-Gonzalez F. 2013. Aplicación de tecnologías VHF y satelital para seguimiento de manatíes *Trichechus manatus* como una estrategia para su manejo y conservación en la cuenca baja y media del río Sinú, departamento de Córdoba. Pages 273-312 In: Trujillo F, Gärtner A, Caicedo D, Diazgranados MC (eds) *Diagnóstico del estado de conocimiento y conservación de los mamíferos acuáticos en Colombia*. Ministerio de Ambiente y Desarrollo Sostenible, Fundación Omacha, Conservación Internacional y WWF. Bogotá, 312 pp.

2012 (9)

Adimey N, **Mignucci-Giannoni AA**, Auil NE, da Silva VMF, de Carvalho Alvite CM, Morales Vela B, Pinto de Lima R, Rosas FCW. 2012. Manatees rescue, rehabilitation and release efforts as a tool for species conservation. In Hines E, Reynolds J, Aragonés L, Mignucci Giannoni AA, Marmontel M (eds) *Sirenian Conservation: Issues and strategies in developing countries*. Gainesville, Florida: University Press of Florida, pp. 204-217.

Bonde RK, **Mignucci-Giannoni AA**, Bossart GD. 2012. Sirenian pathology and mortality assessment. In Hines E, Reynolds J, Aragonés L, Mignucci Giannoni AA, Marmontel M (eds) *Sirenian Conservation: Issues and strategies in developing countries*. Gainesville, Florida: University Press of Florida, pp. 148-156.

Bossart GD, **Mignucci-Giannoni AA**, Rivera-Guzmán AL, Jiménez-Marrero NM, Camus AC, Bonde RK, Dubey JP, Reif JS. 2012. Disseminated toxoplasmosis in Antillean manatees *Trichchus manatus manatus* from Puerto Rico. *Diseases of Aquatic Organisms* 101:139-144.

Caballero S, Santos MO, Sánchez A, **Mignucci-Giannoni AA**. 2012. Initial description of the phylogeography, population structure and genetic diversity of Atlantic spotted dolphins from southern Brazil and the Caribbean inferred from analyses of mitochondrial and nuclear DNA. *Biochemical Systematics and Ecology* 48:263-270.

Caballero-Gaitán S, Islas-Villanueva V, Tezanos-Pinto G, Delgado-Estrella A, Sanchez-Okrucky R, **Mignucci-Giannoni AA**. 2012. Phylogeography, genetic diversity and population structure of bottlenose dolphins (*Tursiops truncatus*) in the wider Caribbean inferred from analyses of mitochondrial DNA control region sequences. *Animal Conservation* 15(1):95-112.

Hines E, Domning D, Aragonés L, Marmontel M, **Mignucci Giannoni AA**, Reynolds JE. 2012. The role of scientists in sirenian conservation in developing countries. In Hines E, Reynolds J, Aragonés L, Mignucci Giannoni AA, Marmontel M (eds) *Sirenian Conservation: Issues and strategies in developing countries*. Gainesville, Florida: University Press of Florida, pp. 243-245.

Hunter ME, **Mignucci-Giannoni AA**, Pause Tucker K, King TL, Bonde RK, Gray BA, McGuire PM. 2012. Puerto Rico and Florida manatees represent genetically distinct groups. *Conservation Genetics* 13:1623-1635.

Satizábal P, **Mignucci-Giannoni AA**, Duchêne S, Caicedo-Herrera D, Perea-Sicchar CM, García-Dávila CR, Trujillo F, Caballero SJ. 2012. Phylogeography and sex-biased dispersal across riverine manatee populations (*Trichechus inunguis* and *Trichechus manatus*) in South America. PLoS ONE 7(12):e52468. PLoS ONE 7(12): e52468, doi:10.1371/journal.pone.0052468.

Self-Sullivan C, **Mignucci-Giannoni AA**. 2012. West Indian manatees (*Trichechus manatus*) in the Wider Caribbean Region. In Hines E, Reynolds J, Aragonés L, Mignucci Giannoni AA, Marmontel M (eds) *Sirenian Conservation: Issues and strategies in developing countries*. Gainesville, Florida: University Press of Florida, pp. 36-46.

2009 (3)

Colón-Llavina MM, **Mignucci-Giannoni AA**, Mattiucci S, Paoletti M, Nascetti G, Williams Jr. EH. 2009. Additional records of metazoan parasites from Caribbean marine mammals, including genetically identified anisakid nematodes. Parasitology Research 105(5):1239-1252.

Engelhaupt D, Hoelzel AR, Nicholson C, Frantzis A, Mesnick S, Gero S, Whitehead H, Rendell L, Miller P, De Stefanis R, Canadas A, Airoidi S, **Mignucci-Giannoni AA**. 2009. Female philopatry in coastal basins and male dispersion across the North Atlantic in a highly mobile marine species, the sperm whale (*Physeter macrocephalus*). Molecular Ecology 18(20):4193-4205.

Mignucci-Giannoni AA, Rosario-Delestre RJ, Alsina-Guerrero MM, Falcón-Matos L, Guzmán-Ramírez L, Williams Jr. EH, Bossart GD, Reidenberg J. 2009. Asphyxiation in a bottlenose dolphin (*Tursiops truncatus*) from Puerto Rico due to choking on a black margate (*Anisotremus surinamensis*). Aquatic Mammals 35(1):48-54.

2008 (6)

Bunkley-Williams L, Williams Jr. EH, Horrocks JA, Horta HC, Poconi AC, **Mignucci-Giannoni AA**. 2008. New leeches and diseases for the hawksbill sea turtle and the West Indies. Comparative Parasitology 75(2):263-270.

Deutsch CJ, Self-Sullivan C, **Mignucci-Giannoni AA**. 2008. *Trichechus manatus*. In: IUCN 2012. IUCN Red List of Threatened Species. Version 2013.2. <www.iucnredlist.org>. Downloaded on 04 April 2014.

Moore DP, Williams EH, **Mignucci-Giannoni AA**, Bunkley-Williams L, Dyer WG. 2008. Successful surgical treatment of spear wounds in a hawksbill turtle, *Eretmochelys imbricata* (Testudines: Cheloniidae). Journal of Tropical Biology 56(Suppl. 1):271-276.

Moore DP, Williams EH, **Mignucci-Giannoni AA**, Bunkley-Williams L, Tippet FE, Montoya RA. 2008. Acute myocarditis in a West Indian manatee, *Trichechus manatus* (Sirenia: Trichechidae) from Puerto Rico. Journal of Tropical Biology 56(Suppl. 1):277-283.

Self-Sullivan C, **Mignucci-Giannoni AA**. 2008. *Trichechus manatus ssp. manatus*. In: IUCN 2008 IUCN Red List of Threatened Species. Version 2014.2. <www.iucnredlist.org>. Downloaded on 28 October 2014

Tezanos-Pinto G, Baker CS, Russel K, Martien K, Baird RW, Hutt A, Stone G, **Mignucci-Giannoni AA**, Caballero S, Endo T, Lavery S, Oremus M, Olavarría C, Garrigue C. 2008. A worldwide perspective on the population structure and genetic diversity of bottlenose dolphins (*Tursiops truncatus*) in New Zealand. Journal of Heredity 100(1):11-24.

2007 (1)

Caballero S, Jackson J, **Mignucci-Giannoni AA**, Barrios-Garrido H, Beltrán-Pedrerros S, Montiel MG, Robertson K, Baker CS. 2007. Molecular systematics of the South American dolphins *Sotalia*: Sister taxa determination and phylogenetic relationships, with insights into a multi-locus phylogeny of the family Delphinidae. Molecular Phylogenetics and Evolution 46(1):252-268.

2006 (2)

Valentini A, Mattiucci S, Bondanelli P, Webb SC, Mignucci-Giannoni AA, Colom-Llavina MM, Nascetti G. 2006. Genetic relationships among *Anisakis* species (Nematoda: Anisakidae), inferred from mitochondrial *cox2* sequences, and comparison with allozyme data. Journal of Parasitology 92(1):156-166.

Vianna JA, Bonde RK, Caballero S, Giraldo JP, Lima RP, Clark A, Marmontel M, Morales-Vela B, de Sousa MJ, Parr L, Rodríguez-Lopez MA, **Mignucci-Giannoni AA**, Powell JA, Santos FR. 2006. Phylogeography, phylogeny and hybridization in trichechid sirenians: Implications for manatee conservation. Molecular Ecology 15:433-447.

2005 (1)

Dalebout M, Robertson KM, Frantzis A, Engelhaupt D, **Mignucci-Giannoni AA**, Rosario-Delestre RJ, Baker CS. 2005. Worldwide structure of mtDNA diversity among Cuvier's beaked whales (*Ziphius cavirostris*); implications for threatened populations. *Molecular Ecology* 14:3353-3371.

2003 (7)

Ewing RY, **Mignucci-Giannoni AA**. 2003. A poorly differentiated pulmonary squamous cell carcinoma in a free-ranging Atlantic bottlenose dolphin (*Tursiops truncatus*). *Journal of Veterinary Diagnostic Investigation* 15:162-165.

Falcón-Matos L, **Mignucci-Giannoni AA**, Toyos-González GM, Bossart GD, Meisner RA, Varela RA. 2003. Evidence of a shark attack on a West Indian manatee (*Trichechus manatus*) in Puerto Rico. *Journal of Neotropical Mammalogy* 10(1):161-166.

Mignucci-Giannoni AA, Montoya-Ospina RA, Velasco-Escudero M. 2003. Status of semicaptive manatees in Jamaica. *The Latin American Journal of Aquatic Mammals* 2(1):7-12.

Mignucci-Giannoni AA, Soltero S, Avampini A. 2003. Los manatíes de Puerto Rico 2004—Calendario. Buenos Aires: Colecciones Buenos Aires.

Mignucci-Giannoni AA, Swartz SL, Martínez A, Burks CM, Watkins WA. 2003. First records of the pantropical spotted dolphin (*Stenella attenuata*) for the Puerto Rican Bank, with a review of the species in the Caribbean. *Caribbean Journal of Science* 39(3):381-392.

Morales-Vela B, Padilla-Saldívar J, **Mignucci-Giannoni AA**. 2003. Status of the manatee (*Trichechus manatus*) along the northern and western coasts of the Yucatán Peninsula, México. *Caribbean Journal of Science* 39(1):42-49.

Williams EH, **Mignucci-Giannoni AA**, Bunkley-Williams L, Bonde RK, Self-Sullivan C, Preen A, Cockcroft VG. 2003. Echeneid-sirenian associations with information on remora diet. *Journal of Fish Biology* 63:1176-1183.

2002 (3)

Carrasquillo-Casado B, Alsina-Guerrero M, Cardona-Maldonado MA, Williams EH, **Mignucci-Giannoni AA**. 2002. Fatal pneumonia and pleuritis caused by a needlefish beak penetration in a bottlenose dolphin from Puerto Rico. *Journal of Aquatic Animal Health* 14(1):65-67.

Dyer WG, Williams EH, **Mignucci-Giannoni AA**, Jiménez-Marrero NM, Bunkley-Williams L, Moore DP, Pence DB. 2002. Helminth and arthropod parasites of the brown pelican, *Pelecanus occidentalis*, in Puerto Rico, with a compilation of all metazoan parasites reported from this host in the Western Hemisphere. *Avian Pathology* 31(5):441-448.

Mignucci-Giannoni AA, Haddow P. 2002. Wandering hooded seals. *Science* 295(5555):627-628.

Pérez-Zayas JJ, **Mignucci-Giannoni AA**, Toyos-González GM, Rosario-Delestre RJ, Williams EH. 2002. Incidental predation by a largetooth cookiecutter shark on a Cuvier's beaked whale in Puerto Rico. *Aquatic Mammals* 28(3):308-311.

2001 (3)

Mignucci-Giannoni AA, Odell DK. 2001. Tropical and subtropical Western Atlantic records of hooded seals (*Cystophora cristata*) dispel the myth of extant caribbean monk seals (*Monachus tropicalis*). *Bulletin of Marine Science* 68(1):47-58.

Montoya-Ospina RA, Caicedo-Herrera D, Millán-Sánchez SL, **Mignucci-Giannoni AA**, Lefebvre LW. 2001. Status and distribution of the West Indian manatee, *Trichechus manatus manatus*, in Colombia. *Biological Conservation* 102(1):117-129.

Swartz SL, Martinez A, Stamates J, Burks C, **Mignucci-Giannoni AA**. 2001. Acoustic and visual survey of cetaceans in the waters of Puerto Rico and the Virgin Islands: February-March 2001. NOAA Technical Memorandum NMFS-SEFSC-463, 62p.

2000 (2)

Mignucci-Giannoni AA, Montoya-Ospina RA, Jiménez-Marrero NM, Rodríguez-López MA, Williams Jr EH, Bonde RK. 2000. Manatee mortality in Puerto Rico. *Environmental Management* 25(2):189-198.

Mignucci-Giannoni AA, Toyos-González GM, Pérez-Padilla J, Rodríguez-López MA, Overing J. 2000. Mass stranding of pygmy killer whales (*Feresa attenuata*) in the British Virgin Islands. *Journal of the Marine Biological Association of the United Kingdom* 80(2):383-384.

1999 (8)

- Beller W, Casellas MA, Cerame-Vivas MJ, Duffy L, El Koury J, Gelabert PA, González-Liboy JA, Hernández-Avila M, Maldonado N, Matos CA, **Mignucci-Giannoni AA**, Pantojas-García E, Rigau JA, Shelley D, Tacher-Roffe M, Zerbi N. 1999. Puerto Rico and the Sea—1999: An Action Program for Marine Affairs. A report to the Governor. Department of Natural and Environmental Resources, San Juan, Puerto Rico, 122 pp.
- Cardona-Maldonado MA, **Mignucci-Giannoni AA**. 1999. Pygmy and Dwarf Sperm Whales in Puerto Rico and the Virgin Islands, with a Review of *Kogia* in the Caribbean. *Caribbean Journal of Science* 35(1-2):29-37.
- Mignucci-Giannoni AA**, Beck CA, Montoya-Ospina RA, Williams EH. 1999. Parasites and commensals of the West Indian manatee from Puerto Rico. *Journal of the Helminthological Society of Washington* 66(1):67-69.
- Mignucci-Giannoni AA**, Montoya-Ospina RA, Pérez-Zayas JJ, Rodríguez-López MA, Williams EH. 1999. New records of Fraser's dolphin (*Lagenodelphis hosei*) for the Caribbean. *Aquatic Mammals* 25(1):15-19.
- Mignucci-Giannoni AA**, Pinto-Rodríguez B, Montoya-Ospina RA, Jiménez-Marrero NM, Rodríguez-López MA, Williams EH, Odell DK. 1999. Cetacean strandings in Puerto Rico and the Virgin Islands. *Journal of Cetacean Research and Management* 1(2):191-198.
- Mignucci-Giannoni AA**, Williams EH, Toyos-González GM, Pérez-Padilla J, Rodríguez-López MA, Vega-Guerra MB, Ventura-González M. 1999. Helminths from a stranded manatee in the Dominican Republic. *Veterinary Parasitology* 81(1):69-71.
- Rodríguez-López MA, **Mignucci-Giannoni AA**. 1999. A stranded pygmy killer whale (*Feresa attenuata*) in Puerto Rico. *Aquatic Mammals* 25(2):119-121.
- Rosario-Delestre RJ, Rodríguez-López MA, **Mignucci-Giannoni AA**, Mead JG. 1999. New records of beaked whales (*Mesoplodon* spp.) for the Caribbean. *Caribbean Journal of Science* 35(1-2):144-148.

1998 (9)

- García-Rodríguez AI, Bowen BW, Domning D, **Mignucci-Giannoni AA**, Marmontel M, Montoya-Ospina RA, Morales-Vela B, Rudin M, Bonde RK, McGuire PM. 1998. Phylogeography of the West Indian manatee (*Trichechus manatus*): How many populations and how many taxa? *Molecular Ecology* 7:1737-1749.
- Jiménez-Marrero NM, Méndez-Matos I, Montoya-Ospina RA, Williams EH, Bunkley L, **Mignucci-Giannoni AA**. 1998. Rangos de referencia de inmunoglobulina G en individuos de tres poblaciones del manatí (*Trichechus manatus*). *Caribbean Journal of Science* 34(3-4):313-315.
- Mignucci-Giannoni AA**, Beck CA. 1998. The diet of the manatee (*Trichechus manatus*) in Puerto Rico. *Marine Mammal Science* 14(2):394-397.
- Mignucci-Giannoni AA**, Hoberg EP, Siegel-Causey D, Williams EH. 1998. Metazoan parasites and other symbionts of cetaceans in the Caribbean. *Journal of Parasitology* 84(5):939-946.
- Mignucci-Giannoni AA**, Rodríguez-López MA, Pérez-Zayas JJ, Montoya-Ospina RA, Williams EH. 1998. First record of the melonhead whale (*Peponocephala electra*) for Puerto Rico. *Mammalia* 62(3):452-457.
- Mignucci-Giannoni AA**. 1998. Assessment and rehabilitation of wildlife affected by an oil spill in Puerto Rico. *Environmental Pollution* 104(2):323-333.
- Mignucci-Giannoni AA**. 1998. Marine mammal captivity in the northeastern Caribbean, with notes on the rehabilitation of stranded whales, dolphins and manatees. *Caribbean Journal of Science* 34(3-4):191-203.
- Mignucci-Giannoni AA**. 1998. Zoogeography of cetaceans off Puerto Rico and the Virgin Islands. *Caribbean Journal of Science* 34(3-4):173-190.
- Muñoz-Hincapié MF, Mora-Pinto DM, Palacios DM, Secchi ER, **Mignucci-Giannoni AA**. 1998. First osteological record of the dwarf sperm whale in Colombia, with notes on the zoogeography of *Kogia* in South America. *Revista Academia Colombiana de Ciencias* 22(84):433-444.

1997 (2)

- Alicea [Alicca] JA, Harvey J, **Mignucci-Giannoni AA**. 1997. Variations in the vocal repertoire of the manatee in the Caribbean (*Trichechus manatus manatus*). *The Journal of the Acoustical Society of America* 102:3179.
- Mignucci-Giannoni AA**, Toyos-González GM, Pérez-Padilla J, Montoya-Ospina RA, Williams EH. 1997. First osteological collection of marine mammals for Puerto Rico and the Virgin Islands. *Caribbean Journal of Science* 33(3-4):288-292.

1995 (1)

Mora-Pinto DM, Muñoz-Hincapie MF, **Mignucci-Giannoni AA**, Acero-Pizarro A. 1995. Marine mammal mortality and strandings along the Pacific coast of Colombia. Report of the International Whaling Commission 45:427-429.

1994 (1)

Williams EH, Bunkley Williams L, Pinto Rodríguez B, Matos R, **Mignucci Giannoni AA**, Hall K, Sybesma J, Bonelly de Calventi I, Boulon RH, Rueda Almonacid JV. 1994. Fibropapillomas in green turtles *Chelonia mydas* of the Caribbean: Part of a panzootic? Journal of Aquatic Animal Health 6(1):70-78.

1988 (1)

Mignucci-Giannoni AA. 1988. A stranded sperm whale, *Physeter catodon*, at Cayo Santiago, Puerto Rico. Caribbean Journal of Science 24(3-4):213-215.

Popular Publications (41)

In local, national and international newspapers and magazines, including public service announcements, an informative calendar, a recorded song and video-clip about manatees.

2017 (1)

Mignucci A. 2017. Cuando Flipper decide visitarte. El Nuevo Día 24 February.

2014 (1)

Mignucci-Giannoni AA, Mendez V, Marrero J, Negrón Z. 2014. Los manatíes son majestuosos. Public Service Announcement video, Inter American University of Puerto Rico, 0:30 min.

2011 (1)

Mignucci A. 2011. El futuro de las sirenas de nuestra isla. El Nuevo Día 1 May.

2003 (1)

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2002 (2)

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2000 (3)

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1998 (3)

Mignucci-Giannoni AA, Rosario-Delestre RJ. 1998. Mass strandings of goosebeak whales in Puerto Rico. *Whale World (Nature Alert)* 1(2).

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1995 (1)

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1994 (4)

El Manatí, Moisés [= Delgado-Esquilín G, **Mignucci Giannoni AA**]. 1994. Cuando un amigo se va: Tristeza y esperanza. *El Nuevo Día* 19 March:73-75.

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1993 (5)

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1992 (3)

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Mignucci Giannoni AA. 1991. Manatee survival in the Caribbean looks slim unless rapid action is taken. *Save the Manatee (Save the Manatee Club)* March:5.

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1988 (3)

Mignucci-Giannoni AA. 1988. Focas en Puerto Rico? *Naturaleza (Magazine of the Natural History Society of Puerto Rico)* 1(2):22-24.

Mignucci-Giannoni AA. 1988. Las jorobadas de Borinquen. *Naturaleza* (Magazine of the Natural History Society of Puerto Rico) 1(3):8-9.

Mignucci-Giannoni AA. 1988. Orca, la ballena asesina es un delfin. *Naturaleza* (Magazine of the Natural History Society of Puerto Rico) 1(1):22-24.

Professional Presentations and Conferences

Over 146 presentations at local, national and international conferences since 1984 in Argentina, Bahamas, Brazil, California, Canada, Chile, Colombia, Colorado, Cuba, Dominican Republic, Florida, Georgia, Hawaii, Illinois, Jamaica, Japan, México, Monaco, North Carolina, Puerto Rico and Texas (see titles and authors by year at www.manatipr.org/presentacionesprofesionales).

- Participated as an **executive member** of the IUCN Sirenia Specialist Group in the *Biology and Conservation of Sirenians Symposia* during the Ninth International Mammalogical Congress, hosted by the IUCN—International Union for the Conservation of Nature, 31 July to 5 August 2005, Sapporo, Japan.
- Participated as the **USA Delegate** in the *Regional Workshop on the Conservation of the West Indian Manatee in the Wider Caribbean Region*, sponsored by the United Nations Environmental Programme's Regional Coordinating Unit—Caribbean Environmental Programme, Jamaica's Natural Resources Conservation Agency and the Government of the United States of America, 1 to 4 March 1994, Kingston, Jamaica.
- Participated as **alternate observer** to the Long-Term Research Institute and the Animal Kingdom Foundation of the International Wildlife Coalition in the *Forty-second Annual Meeting of the International Whaling Commission*, 2 to 6 July 1990, Noordwijk, Netherlands.

Filmography (12)

In addition to frequent TV appearances in local news coverage, appearances at the national and international television are:

Year	Program	Episode	As	Producer	Shown in	Audience
1992	Network Earth	-	Himself	CNN	CNN	Nationwide (US)
1994	Moisés (music video)	-	Himself	RCV	WIPR (Ch. 6)	Puerto Rico
2001	Despierta América	-	Himself	Telemundo Studios	Univisión	Worldwide
2001	Pa'lante con Cristina	-	Himself	Telemundo Studios	Univisión	Worldwide
2002	National Geographic's EarthPulse	E16	Himself	Beyond	NG US NG International	Nationwide (US) Worldwide
2013	Ocean Mysteries with Jeff Corwin	S2E17	Himself	Georgia Aquarium	ABC	Nationwide (US)
2014	Born in the Wild (Dolphins)	S1E4	Himself	Windfall Films	Channel 4	United Kingdom
	Sex in the Wild (Dolphins)				PBS	Nationwide (US)
	Born in the Wild (Dolphins)				Netflix	Worldwide
2016	Regreso al Mar (music video)	-	Himself	Buena Vibra/Inter	Youtube	Puerto Rico
2017	Nature: Viva Puerto Rico	-	Himself	Windfall Films	PBS	Nationwide (US)
2017	Puerto Rico: Island of Enchantment	-	Himself	Windfall Films	BBC	United Kingdom

Publications in process (33)

Manuscripts are in different stages of development.

Books in preparation (6)

Caicedo D, Gärtner Zarate A, Diazgranados MC, Venturotti Carneiro A, **Mignucci-Giannoni AA**, Trujillo F. Guia de identificación de la fauna marina del Caribe y el Pacífico Oriental Tropical: Cetáceos, Sirénios y Tortugas. Fundación Omacha, US National Oceanographic and Atmospheric Administration, Conservación Internacional Colombia.

Freire de Matos I, **Mignucci A**. Para un manatí. Juvenile literature book.

Mignucci A. Historia natural del manatí en Puerto Rico. Senado de Puerto Rico.

Mignucci A. Moises el manatí: Su historia y su canción. Juvenile literature book.

Mignucci-Giannoni AA, Trujillo F (eds). Mamíferos Acuáticos del Gran Caribe.

Trujillo F, **Mignucci-Giannoni AA**, Serbini A, Crespo E, Urban J (eds). Aquatic mammal research in Latin America.

Peer-reviewed articles in preparation (27)

- Albertson GR, Caballero S, **Mignucci-Giannoni AA**, Baker CS. Worldwide mtDNA phylogeography and fine-scale population structure of the rough-toothed dolphin (*Steno bredanensis*).
- Alsina-Guerrero MM, **Mignucci-Giannoni AA**, Bonde RK, Rivera-Guzmán AL, Bossart GD. Blood values from West Indian manatees (*Trichechus manatus*) from Puerto Rico.
- Bachara W, Palacios DM, **Mignucci-Giannoni AA**, Martin V. *Mesoplodon densirostris* strandings—a short review.
- Bolaños-Jiménez J, **Mignucci-Giannoni AA**. Occurrence of minke whales (*Balaenoptera acutorostrata*) in the Caribbean.
- Caicedo-Herrera D, **Mignucci-Giannoni AA**. Release and radiotelemetry of long-term semi-captive West Indian manatees (*Trichechus manatus*) in Colombia.
- Casey D, **Mignucci-Giannoni AA**. New species of cyamid from a stranded pygmy killer whale (*Feresa attenuata*).
- Collazo JA, Krachey M, Pérez-Aguiló F, **Mignucci-Giannoni AA**. West Indian manatees (*Trichechus manatus*) island-wide synoptic surveys to estimate population in Puerto Rico.
- Iglesias-Escabí C, Rosario-Delestre RJ, Alsina-Guerrero MM, Vera M. Rosado-Odom, **Mignucci-Giannoni AA**. Changes in distribution of West Indian manatees (*Trichechus manatus*) in Puerto Rico over time.
- Jensen B, **Mignucci-Giannoni AA**, Bossart GD. Further description of a papillomas virus from a West Indian manatees (*Trichechus manatus*).
- Jiménez-Zuchett AN, López-Romahn MC, Torres R, Sanchez-Okrucky R, **Mignucci-Giannoni AA**. Normal parameters of urinalysis for bottlenose dolphins (*Tursiops truncatus*) in the Caribbean.
- Mignucci-Giannoni AA**, Cabrias-Contreras LJ, Gutierrez-Ramos NA, Alejandro-Zayas T, Rivera-Illaraza PJ, Rivera-Guzmán AL, de la Rosa F, Sanchez-Okrucky R. Normal parameters of urinalysis for West Indian manatees (*Trichechus manatus*) in Puerto Rico, Dominican Republic and Mexico.
- Mignucci-Giannoni AA**, Cintrón De Jesús Y, Williams EH. Barnacles associated to West Indian manatees (*Trichechus manatus*), humpback whales (*Megaptera novaeangliae*) and sea turtles from Florida and the Caribbean.
- Mignucci-Giannoni AA**, Falcón-Matos L, Rivera-Pérez CI, Rivera-Guzmán AL, Bossart GD. Pathologic findings in West Indian manatees (*Trichechus manatus*) from Puerto Rico.
- Mignucci-Giannoni AA**, Falcón-Matos L, Rivera-Pérez CI, Rodríguez-Bruno C, Bonde RK. Congenital malformations of flippers in stranded West Indian manatees (*Trichechus manatus*) in Puerto Rico.
- Mignucci-Giannoni AA**, Rosario-Delestre RJ, Alsina-Guerrero MM, Vera M. Rosado-Odom. Synoptic aerial surveys for West Indian manatees (*Trichechus manatus*) off the south coast of Puerto Rico—2001-2012.
- Mignucci-Giannoni AA**, Salazar-Casals A, Alsina-Guerrero M, Escobar-Torres SM, Rivera-Guzmán AL, Sánchez-Okrucky R, Bonde RK, Bossart GD. Protocolo de emergencia y estandarización de estados médicos para manatíes.
- Mignucci-Giannoni AA**, Tacher-Roffe M, Adimey N, Rivera-Guzmán AL, Alsina-Guerrero MM, Pérez-Lewis M., Alejandro-Zayas T, Bossart GD. Rescue, rehabilitation and release of West Indian manatee (*Trichechus manatus*) calves in Puerto Rico.
- Morin PA, Carrol E, Aguilar Soto N, Olsen MT, Claridge D, Durban J, **Mignucci-Giannoni AA**. Genotype of beaked whales for relatedness and population structure in the Bahamas.
- Morin PA, van Cise A, **Mignucci-Giannoni AA**. Global phylogeography and taxonomy of short-finned pilot whales (*Globicephala macrorhynchus*).
- Mutis-Martinezguerra MA, Negrete A, Rivera-Guzmán AL, **Mignucci-Giannoni AA**. Biochemistry of plasma serum in hawksbill sea turtles (*Eretmochelys imbricata*) from the Caribbean.
- Pérez-Rivera JL, Keith-Diagne L, Mignucci-Giannoni AA. Rescue, rehabilitation and release of an orphaned West African manatee calf (*Trichechus senegalensis*) in Gabon, Africa.
- Rivera-Pérez CI, Caballero SJ, **Mignucci-Giannoni AA**. Phylogeography of West Indian and Amazonian manatee endoparasites.
- Rivera-Pérez CI, Jiménez-Marrero NM, Rodríguez-Ferrer G, **Mignucci-Giannoni AA**. Plastic debris as a cause of death of a rough-toothed dolphins (*Steno bredanensis*) and a pilot whale (*Globicephala macrorhynchus*) in the Caribbean.
- Rosario-Delestre RJ, Bachara W, **Mignucci-Giannoni AA**. Strandings of Cuvier's beaked whales in the Caribbean.
- Salazar-Casals A, Rubio-García A, Arriba-García A, O'Connor JO, **Mignucci-Giannoni AA**. Hematology and

- serum biochemistry of harbour seal (*Phoca vitulina*) pups after rehabilitation in the Netherlands.
- Wyrosdick HM, Chapman A, **Mignucci-Giannoni AA**, Rivera-Pérez CI, de Wit M, Bonde RK. Parasites of the West Indian manatee (*Trichechus manatus*).
- Wyrosdick HM, Gerhold R, Su C, **Mignucci-Giannoni AA**, Bonde RK, Chapman A, de Wit M, Rivera-Pérez CI, Martínez J, Miller DL. Epidemiology of *Toxoplasma gondii* in the Florida and Antillean manatees (*Trichechus manatus*).

RESEARCH

Research interests include life history, ecology and zoogeography of Caribbean and South American aquatic mammals, aquatic animal health, marine clinical veterinary medicine, pathobiology, and forensic zoology.

On-going research projects

- Mignucci-Giannoni AA**, Caballero-Gaitán S, Torres R, Sánchez-Okrucky R. 2017-present. Genetic relatedness of captive bottlenose dolphins in the Caribbean. Inter American University of Puerto Rico, Dolphin Discovery, Delphinus.
- Mignucci-Giannoni AA**, Rodríguez-Pérez AI, Alejandro-Zayas T, Negrete-Philippe AC, Lara G, Sánchez-Okrucky R, Larkin IV. 2017-present. Reproductive physiology of West Indian manatees (*Trichechus manatus*) in captivity. Inter American University of Puerto Rico, Dolphin Discovery, Xcaret, University of Florida.
- Mignucci-Giannoni AA**, Jiménez-Marrero NM, Zegarra JP. 2011-present. Puerto Rico manatee health assessment and telemetry project. Inter American University of Puerto Rico, Puerto Rico's Department of Natural and Environmental Resources, US Fish and Wildlife Service.
- Caicedo-Herrera D, **Mignucci-Giannoni AA**. 2008-present. Release and radiotelemetry of long-term semi-captive West Indian manatees (*Trichechus manatus*) in Colombia. Fundación Omacha, Inter American University of Puerto Rico.
- Mignucci-Giannoni AA**. 1989-present. Health assessment, rescue and rehabilitation of manatees in Puerto Rico. Inter American University of Puerto Rico, Puerto Rico's Legislature and Department of Natural and Environmental Resources, USGS Sirenia Project, US Fish and Wildlife Service.

Completed research projects and contracts

Over 40 completed projects since 1987, totaling over \$5MM in funding, with over 200 colleagues from Africa, Alabama, Argentina, Aruba, Australia, Barbados, Belize, Brazil, British Virgin Islands, California, Cayman Islands, Colombia, Colorado, Cuba, Dominica, Dominican Republic, Florida, Georgia, Italy, Kentucky, Maryland, Massachusetts, Mexico, New York, New Zealand, Oregon, Peru, Philippines, Puerto Rico, Spain, Trinidad, US Virgin Islands, Venezuela, Virginia, and Washington DC, including topics of acoustics, behavior, biodiversity, forensic zoology, habitat use, health assessment, oil spill response, parasitology, photo-identification, population genetics, population surveys (boat and aerial), and radiotelemetry.

PROFESSIONAL ASSOCIATIONS / MEMBERSHIPS

- Association of Zoo Veterinary Technicians
- International Association for Aquatic Animal Medicine (IAAAM)
- National Association of Veterinary Technicians in America
- Sirenia Specialist Group, IUCN—International Union for the Conservation of Nature
- Sirenian International
- Sociedad Latinoamericana de Especialistas de Mamíferos Acuáticos
- Society for Marine Mammalogy

LICENSES AND PERMITS

- Designee of Federal permit to conduct field research, salvage, carry out necropsies, capture, tag, and conduct radiotelemetry studies of manatees in Puerto Rico issued by US Fish and Wildlife Service to the USGS Sirenia Project.
- Holder of Federal letter of authorization to rescue, rehabilitate and maintain captive manatees in Puerto Rico and the Virgin Islands issued by US Fish and Wildlife Service.
- Holder of local letters of authorization to salvage, conduct necropsies and rescue marine mammals in Puerto Rico, issued by Puerto Rico's Department of Natural and Environmental Resources.

- Holder of local permit to carry out field research, monitor, carry out aerial boat and aerial surveys, capture, tag, and radiotelemetry studies of manatees in Puerto Rico issued by the Puerto Rico's Department of Natural and Environmental Resources.
- Holder of local permit to salvage, conduct necropsies and rescue sea turtles in Puerto Rico issued by the Puerto Rico's Department of Natural and Environmental Resources.

COMMUNITY SERVICE

- Presented numerous lectures at local schools, universities, and community-based organizations and clubs in Puerto Rico regarding marine mammals, marine biology research and natural resources conservation (1983 to present).
- Advised and encouraged high school and bachelor-level students in future university and career plans in marine biology, veterinary medicine and scientific research (1987 to present).
- Advised and supervised intermediate and high school students in school scientific fairs (1990 to present).

REFERENCES

- **Gregory D. Bossart**, VMD, PhD
Senior Vice President, Georgia Aquarium, Atlanta, Georgia
gbossart@georgiaaquarium.org
- **Robert K. Bonde**, PhD
Biologist, Sirenia Project, US Geological Survey, Gainesville, Florida
rbonde@usgs.gov
- **Fernando Trujillo**, PhD
Director of Field Research, Fundación Omacha, Bogotá, Colombia
fernando@omacha.org
- **Susana J. Caballero**, PhD
Assistant Professor, Universidad de los Andes, Bogotá, Colombia
sj.caballero26@uniandes.edu.co