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Education

Ph.D. Marine Sciences, Louisiana State University, Baton Rouge, LA, USA
M.S. Oceanography, University of Washington, Seattle, WA, USA
B.A. Mathematics, with minor in journalism, Georgia Southern College, Statesboro, GA, USA (with transfer credits in political science from Stockholms Universitet)

Administrative Leadership Positions

- Chancellor, American University of Sharjah (AUS), Sharjah, United Arab Emirates, 2014-present
AUS is a comprehensive private non-profit co-educational university fostering excellence in teaching, research, and service, established in 1997, serving 5,500 undergraduate and 500 graduate students in engineering; business administration; architecture, arts, and design; and arts and sciences. Based on the American liberal arts model of higher education, and grounded in the culture of the Gulf, AUS has an international faculty from 48 nations and students from 102 countries, and is accredited in the USA and the UAE.
- President, World Maritime University, Malmö, Sweden, 2009-2014
World Maritime University (WMU) is a UN post-graduate university established in 1983 by the International Maritime Organization (IMO) with a mission for maritime education, research, and human capacity building, offering M.Sc. and Ph.D. degrees. WMU is a member of the European University Association, the International Association of Universities, the US Council of Graduate Schools, and is a founding member of the International Association of Maritime Universities. As President of WMU, Kjerfve held Ambassador status in Sweden.
- Dean, College of Geosciences, Texas A&M University, College Station, TX, USA, 2004-2009
Texas A&M University is an AAU institution with 48,000 students (including 8,500 graduate students) in 2009. It is a land-grant, sea-grant, and space-grant institution, was founded in 1876, and was ranked as the 24th best public university in the nation by US News & World Report in 2009.
- Director, Marine Science Program, University of South Carolina, Columbia, SC, USA, 2000-2004
University of South Carolina is the largest state university in South Carolina, was founded in 1801, had 24,000 students, including 6,000 graduate students, in 2004, and was ranked as the 52th best public university in the nation by US News & World Report in 2009.

Academic Positions

- Professor of Environmental Sciences, American University of Sharjah, Sharjah, UAE, 2014-present.
- Professor of Maritime Affairs, World Maritime University, Malmö, Sweden, 2009-2014.
- Professor of Oceanography and Geography, Texas A&M University, College Station, TX, USA, 2004-2011 (including leave of absence without pay 2009-2011).
- Professor of Marine and Geological Sciences, University of South Carolina, Columbia, SC, USA, 1986-2004, Associate Professor 1978-1986, tenured 1978, Assistant Professor 1973-1978, and Research Associate in the Baruch Institute for Marine Biology and Coastal Research, 1973-2004.
- Visiting Professor, Instituto de Geoquímica, Universidade Federal Fluminense, Niterói, RJ, Brazil, 1988-2003.
- Visiting Scientist, University of Sydney, NSW, Australia, 1979-1980.

Board Memberships

- Board of Trustees (*ex officio*), American University of Sharjah, UAE, 2014-
- Vice President, American Association of Independent Colleges and Universities (AAICU), 2017-
- Board of Regents, Malmö University, Sweden, 2013-2014.
- Scientific Council, Maria Tsakos Foundation - International Center of Maritime Research & Tradition N.G.O., Athens, Hellas (Greece), 2012-
- International Executive Board, International Association of Maritime Universities (IAMU); Chair of the Academic Program Review Committee (2009-2011, 2011-2014); Member of Policy Committee (2011-2014), Tokyo, Japan, 2009-2014.
- Board of Governors and Executive Committee, Integrated Ocean Drilling Program-Management International Inc (IODP-MI), Washington, DC, USA, 2008-2009.
- Board of Governors, Joint Oceanographic Institutions Inc., Washington, DC, USA, 2004-2007.
- Board of Governors, Consortium for Ocean Research and Education (CORE), Washington, DC, USA, 2004-2007.
- Board of Directors (Conselho Deliberativo), Instituto Acqua, a non-profit, non-governmental organization with environmental activities relative to water supported by Fundação Roberto Marinho and Petrobrás, Rio de Janeiro, Brazil, 1993-1996.
- Estuarine Research Federation (now Coastal and Estuarine Research Federation), Vice-President, 1983-1985, USA.

Awards

- IMC Golden Helm Excellence Award for Maritime Services, Sharjah, UAE, 9 September 2015.
- Elected **Corresponding Member, Academia Brasileira de Ciências** (Brazilian Academy of Sciences) by the General Assembly 4 December 2012; inaugurated 7 May 2013.
- Awarded Coast Guard Legion of Honor (Degree of Maginoo), Manila, Philippines, 28 January 2013.
- Lifetime Achievement Award in Maritime Academics at the Fifth Marine BizTV International Marine Awards ceremony during Shiptek 2011, Dubai, 19 April 2011.
- Awarded the medal and special tribute by the Associação Brasileira de Oceanografia (AOCEANO) at the III Congresso Brasileiro de Oceanografia in Fortaleza, Brazil, 20-24 May 2008, for 25 years of involvement with oceanography in Brazil with citation "an internationally renowned researcher who has supervised numerous Brazilian oceanography students and performed studies to develop oceanography in Brazil".
- Won Prêmio Jabuti 2003 in the category "Ciências Exatas, Tecnologia e Informática", awarded by Câmara Brasileiro do Livro on 18 May 2003 at Bienal do Livro in Rio de Janeiro, Brazil with the publication of the text book: Miranda, L. B., B. B. M. Castro Filho and B. Kjerfve. 2002. *Princípios de oceanografia física de estuários (Principles of physical oceanography of estuaries)*. Edusp-Editora da Universidade de São Paulo, São Paulo. 414 pp.
- Best of conference award for the best plenary session presentation: Remillard, M., R. A. Welch, J. Alberts, A. Chalmers, B. Kjerfve and M. Cablk. A multi-tiered data-base for

comparative coastal marsh studies. Contributed paper presented at ERIC Second Thematic Conference on Remote Sensing for Marine and Coastal Environments, 31 January-2 February 1994, New Orleans, LA.

Continuing Education

- Harvard Graduate School of Education, Harvard Seminar for New Presidents, 11-16 July 2014, Cambridge, MA.
- American Management Association (AMA), Advanced Executive Leadership Program, 11-13 May 2009, Las Vegas, NV.
- Council for Advancement and Support of Education (CASE), Development for Deans and Academic Leaders, 10-12 October 2004, Denver, CO.

Expertise and Research Focus

Expertise: University leadership and management; maritime and ocean sciences leadership; strategic vision, business, and development planning; regional science networks; International Maritime Organization (IMO/UN) governance and conventions.

Research Focus: Oceanography and modeling of processes in coastal bays, coastal lagoons, estuaries, coastal waters, and oceans; coastal processes; climate change impacts on coastal systems; hydrology and ecology of mangrove wetlands, salt marshes, and coral reefs; maritime transport and environmental protection; and integrated coastal zone management.

UN Conference Delegate

- 2012 Rio + 20 United Nations Conference on Sustainable Development, official delegate of the International Maritime Organization, Rio de Janeiro, Brazil, on June 20-22, 2012.
- 2009 United Nations Framework Conference on Climate Change (UNFCCC/COP15), official delegate of the International Maritime Organization, Copenhagen, 17-19 December 2009.
- 1992 UN Conference of Environment and Development, workshop delegate, International Society of Mangrove Ecosystems, Rio de Janeiro, Brazil, 3-14 June 1992.

Visiting Professor/Scientist Positions

- Universidade Federal Fluminense (Departamento de Geoquímica), Niterói, RJ, Brazil, visiting professor several weeks annually 1988-2003, including full-time sabbatical stays in 1988 and 1996, and a successful competition (*concurso*) and appointment as Professor Titular in November 2003, which I subsequently chose not to occupy.
- Göteborgs Universitet (Oceanografiska Institutionen), Sweden, visiting scientist for a month in 1996.
- Universidade de São Paulo (Instituto Oceanográfico & Centro Tecnológico de Hidráulica), São Paulo, SP, Brazil, visiting professor for two months in 1984 and one month in 1985.
- Universiti Sains Malaysia (School of Biological Sciences), Penang, Malaysia, visiting scientist and IDRC (Canada) project adviser for several months each in 1984, 1990, and 1992.
- Chulalongkorn University (Department of Marine Science), Bangkok, Thailand, visiting professor and UNESCO adviser on curriculum development and research planning for three months in 1983.
- Stockholms Universitet (Institute of Marine Ecology), Askö and Stockholm, Sweden, visiting scientist during the summers of 1981, 1982, and 1983.
- University of Sydney, Coastal Studies Unit, Department of Geography, Sydney, NSW, Australia, sabbatical leave visiting scientist, 1979-1980.

Professional Responsibilities

- Chaired/moderated the IMO conference, *Sustainable Maritime Development - Contribution of*

- *Maritime Transport to Green Growth and Inclusive Development*, UN Conference of Sustainable Development, the Rio+20 Earth Summit, Rio de Janeiro, Brazil, 20 June 2012.
- Chaired the workshop, *Impacts of Climate Change at the Coastal and Ocean Areas of the East Asian Seas Region*, East Asian Seas 2009 Conference, Manila, 24-25 Nov 2009.
- Scientific Committee on Oceanic Research (SCOR) Working Group #122 *Sediment retention in estuaries*, co-organizer with Gerardo M. E. Perillo, IADO, Argentina, with sponsorship from LOICZ, IAPSO, and ONR, 2004-2006.
- International Research Adviser, *Pesquisas Ecológicas Brasileiras de Longa Duração (PELD)*, Estuário da Laguna dos Patos e Costa Adjacente (ECOLAP) - Brazilian LTER project, 2000-2009.
- Scientific Committee on Oceanic Research (SCOR) Working Group #106 *Relative sea level and muddy coasts of the world*, 1995-2000.
- Sediment Quality Subcommittee, Ecological Processes and Effects Committee of the Science Advisory Board, U. S. Environmental Protection Agency, Washington, DC, USA, 1993-1998.
- Council of the International Society for Mangrove Ecosystems (ISME) and Life Member, Okinawa, Japan, 1993-present.
- Commission on Ecology, The World Conservation Union (IUCN), Gland, Switzerland, 1992-1998.
- UNEP-UNESCO mangrove task team to assess impact of expected climate change on mangroves, Paris, France/Nairobi, Kenya, 1992-1998.
- Scientific Council, EPOMEX (El Programa de Ecología, Pesquerías y Oceanografía del Golfo de México), Universidad Autónoma de Campeche, Campeche, México, 1991-1998.
- Technical Advisory Committee, Charleston Harbor Special Area Management Plan, 1990-1994.
- UNESCO working group on mean sea-level rise and its influence on the coastal zone, 1989-1991, Paris.
- Steering Committee, CARICOMP (Caribbean Coastal Marine Productivity), a UNESCO regional pilot project, 1985-present.
- Vice-President, Estuarine Research Federation, 1983-1985, and organizer of the Eighth Biennial International Estuarine Research Conference in 1985.
- Scientific Committee on Oceanic Research (SCOR) Working Group #65 *Coastal-offshore ecosystems relationships*, 1982-1986.

Editorial Boards

- *Estuarine, Coastal and Shelf Science* (UK), 1988-2005.
- *Anales del Instituto de Ciencias del Mar y Limnología & Publicaciones Especiales* (México), 1982-1990.
- *Phuket Marine Biological Center Research Bulletin* (Thailand), 1984-2003.
- *Boletim de Estudos de Ciências do Mar* (Brazil), 1994-2003.
- *Revista de Ecologia Aquática Tropical* (Brazil), 1997-2003.
- *Marshes and Mangroves* (The Netherlands), 1995-2002.
- *Estuaries* (USA), 1977-1980, 1988-1993.
- *Coral Reefs* (USA) 1980-1990.

Reviews and Panels

- Research Panels: NOAA/Coastal Ocean Program Panel, Key Largo, FL, 2003; Fundación Antorchas (Argentina), Woods Hole, MA, 2000, and Buenos Aires, 1999; World Bank panel to review Jordanian GEF proposal, 1997; U. S. Environmental Protection Agency/NOAA Water Quality Protection Program panel, Marathon, FL, 1995; NSF panel on Land-Margin Ecological Research, and Coastal Ocean Initiative, 1991, Washington, DC; Technical resources advisory panel, University of Rhode Island U.S. AID Coastal Resources Management Project, 1985, Kingston, RI; NSF panel to evaluate a comprehensive U.S. AID project on Gambia River basin development, 1985, Washington, DC.
- Manuscripts: Reviewed several hundreds manuscripts submitted for publication to peer-reviewed scientific journals in the USA, UK, Australia, The Netherlands, Brazil, Mexico, and elsewhere.

- Proposals: Reviewed several hundred research proposal submitted for funding to agencies in the USA (including NSF, NASA, NOAA, DOE, EPA), UK, Australia, Brazil, Argentina, Sweden, and GEF proposals for UNEP, UNDP, and the World Bank.
- Awards Judge: Seatrade Asia, Singapore, Maritime Week 2010; Lloyd's List Middle East and Indian Subcontinent Awards, Dubai, UAE, 2014.

Professional Memberships

- American Association of Petroleum Geologist (AAPG).
- American Bureau of Shipping (ABS).
- American Geophysical Union (AGU).
- Estuarine and Coastal Sciences Association (ECSC).
- Coastal and Estuarine Research Federation (CERF), life time member.
- Geological Society of America (GSA).
- International Society for Mangrove Ecosystems (ISME), life time member.
- International Society for Reef Studies (ISRS).
- The Oceanography Society (TOS).

Teaching

During my professional careers, as a professor at several universities and also as an invited scientist/professor to others, I have taught more than 7,000 students in undergraduate and postgraduate courses and classes. The courses include:

Undergraduate Marine Science Majors Courses - University of South Carolina

- MSCI 312 Physical and Chemical Oceanography (4 credit hours; 3 lectures and one 3-hour lab per week), annually 1974-2004, with an enrollment of 25-120 students/year.
- GEOL 335 Global Environmental Change (3 credit hours), 1985, 30 students/year.
- MSCI 505 Senior Seminar (1 credit hour), approximately every 5 years, 1976-2002, with enrollment of 8-12 students/year.
- MSCI/GEOL 557 Coastal Processes (3 credit hours; required 4-day coastal field trip), every other year 1988-1994, with an enrollment of 30 students/year.
- MSCI 585 Coastal Tropical Oceanography (4 credit hours; taught as a study abroad course during a summer session at an island location in the Caribbean), mostly annually 1974-2001, with an enrollment of 12-19 students/year.
- MSCI/GEOL 581 Estuarine Oceanography (3 credit hours and including three 3-day field trips to the coast), biannually 1974-1994, with an enrollment of 15-30 students/year.

Graduate Marine Science Courses - University of South Carolina

- MSCI/GEOL 781 Physical Oceanography (3 credit hours; graduate core course for all Marine Science graduate students), biannually 1974-2003, 15-30 students/year.
- MSCI/GEOL 783 Time Series Analysis (3 credit hours), 1981, with an enrollment of 15 students.
- MSCI/GEOL 784 Geophysical Fluid Dynamics (3 credit hours), 1986, with an enrollment of 5 students.

Courses for Non-Science Majors - University of South Carolina

- GEOL 103 Environmental Geology (4 credit hours, including a weekly 2-hour laboratory), annually 1991-1996, with an enrollment of 200-300 students/year.
- MSCI 210 Oceans and Man (4 credit hours, including 3 lectures and a 2-hour laboratory weekly), annually 1988-1991, with an enrollment of 75-150 students/year.

Teaching at Other Universities

- Brazil: From 1984-2005, taught one compacted week-long graduate course annually, usually 30 hours of lectures during one week, on "Hydrology and oceanography of estuaries, coastal lagoons, and coastal waters" at different Brazilian universities, including Universidad São Paulo (USP), Universidade Federal de Pernambuco (UFPE), Universidade Federal Fluminense (UFF), Fundação Universidade do Rio Grande (UNIVALI), Universidade Federal

do Bahia, Salvador (UFBa), Universidade Federal do Pará (UFPA), with an enrollment of 20-30 graduate students per course.

- Uruguay: taught a 30-hour lecture course at Universidad de la Republica, Montevideo, Uruguay, in 2004, with an enrollment of 25 graduate students.
- Sweden: In 1996, taught a 30-lecture-hour course on "Oceanography of tidal estuaries and coastal lagoons" at Göteborgs Universitet with an enrollment of 25 international students; taught a short-course on Oceanography annually 2009-2013 at World Maritime University with an annual enrollment of approximately 100 post-graduate students.
- Mexico: In 1992 and 1994, taught a post-graduate international diploma short-courses on tropical coastal oceanography and satellite remote sensing at the EPOMEX program (El Programa de Ecología, Pesquerías y Oceanografía del Golfo de México), Universidad Autónoma de Campeche, Campeche, México, each with an enrollment of 15 students.

Supervision and Mentoring

Served as major professor and directed and supervised to completion 14 Ph.D. dissertations and 24 M.S. theses, and served on an additional 50 or more Ph.D. and MS student committees at universities in the US and Brazil.

Ph.D. Students Supervised

1. Israel Medina-Gómez. 2011. *Characterization of a karst coastal ecosystem in the Mexican Caribbean: assessing the influences of the coastal hydrodynamics and the submerged groundwater discharges on the seagrass habitat*. Department of Oceanography, Texas A&M University.
2. Geórgenes Hilário Cavalcante Segundo. 2007. *Processos oceanográficos na região costeira e estuarina do Rio Caeté, Pará, Brasil*. Ph.D. dissertation. Programa de Geoquímica, Geoquímica Ambiental, Universidade Federal Fluminense (including 1.5 years spent at Texas A&M University as a CAPES "sandwich" graduate student).
3. Deeptha Thattai. 2003. *Modeling the hydrometeorology and circulation in the Gulf of Honduras and the MesoAmerican Lagoon, Western Caribbean*. University of South Carolina.
4. Alessandro M. Filippo. 2003. *Variabilidade do nível do mar em função de eventos meteorológicos de baixa frequência*. Universidade Federal Fluminense.
5. Juan Dário Restrepo A. 2001. *Physical Processes in the San Juan River and comparisons to the Magdalena River, Colombia*. University of South Carolina.
6. Soraya M. Patchineelam. 1999. *Fine grain sediment dynamics and budget of the Winyah Bay estuary, South Carolina*. University of South Carolina.
7. Flávia Rebelo Mochel. 1999. *Caracterização espectral e mapeamento dos manguezais per sensoriamento remoto na Baía de Turiaçu, Maranhão, Brasil*. Universidade Federal Fluminense.
8. Cláudia Zuccari Fernandes Braga. 1998. *Sensoriamento remoto aplicada ao estudos da concentração de clorofila-a, transparência e profundidade da água na Lagoa de Araruama, RJ*. Universidade Federal Fluminense.
9. James Blake Atkins. 1998. *Optimal offshore reservoir sizing utilizing simulated annealing*. University of South Carolina.
10. Laura T. David. 1998. *Circulation and dispersion in a large coastal tropical lagoon: Laguna de Términos, Campeche, México*. University of South Carolina.
11. William Heyman. 1996. *Integrated coastal zone management and sustainable development for tropical estuarine ecosystems: A case study of Port Honduras, Belize*. University of South Carolina.
12. Arno Machmann de Oliveira. 1993. *Advection and dispersion in a coastal lagoon system: Mundaú-Manguaba, Brazil*. University of South Carolina.
13. Carmen Medeiros-(Queiroz)Limongi. 1991. *Circulation and mixing processes in the Itamaracá estuarine system, Brazil*. University of South Carolina.
14. Pramot Sojisuorn. 1990. *Oceanographic and dynamic characteristics of Phangnga Bay, Thailand*. University of South Carolina.

M.S. Students Supervised

1. Brandy N. Glett Armstrong. 2005. Currents along the Mesoamerican Reef, Western Caribbean. M. S. Thesis. Marine Science Program, University of South Carolina.
2. Heather Elizabeth Holm. 2004. Horizontal dispersion of eggs of cubera snapper, *Lutjanus cyanopterus*, at Gladden Spit, Belize. M. S. Thesis. Marine Science Program, University of South Carolina.
3. Luiz Alexandre de Araújo Guerra. 1999. *Interações não-lineares da maré em canais com as extremidades abertas - um estudo numérico*. Universidade Federal Fluminense.
4. Lúcio Figueiredo de Rezende. 1997. *Correntes contrários ao vento na plataforma continental sul Fluminense*. Universidade Federal Fluminense.
5. Sabrina A. Sanderson. 1997. *Circulation and water exchange in a tropical bay: Discovery Bay, Jamaica*. University of South Carolina.
6. Alessandro Mendonça Filippo. 1997. *Passagem de frentes frias na Baía de Guanabara: impacto no nível do mar*. Universidade Federal Fluminense.
7. James MacMahan. 1997. *Summer wave characteristics on two beaches in South Carolina*. University of South Carolina.
8. Cesar Henrique de Assis Ribeiro. 1996. *Uma análise da qualidade de água da Baía de Guanabara entre 1980 e 1993*. Universidade Federal Fluminense.
9. Christopher W. Corbett. 1996. *Nonpoint source runoff modelling: a comparison of an undeveloped and urbanized watershed on the coast of South Carolina*. University of South Carolina.
10. Hélder Oliveira Ferreira. 1995. *Aporte de hidrocarbonatos de petróleo para a Baía de Guanabara, RJ*. Universidade Federal Fluminense.
11. Ronald L. Vogel. 1994. *Pathways for inorganic sediment exchange, North Inlet salt marsh, South Carolina*. University of South Carolina.
12. Carlos Augusto F. Schettini. 1994. *Determinantes hidrológicos na manutenção da condição hipersalina de Lagoa de Araruama*. Universidade Federal Fluminense.
13. Xiaochun Wang. 1994. *Adaptive matrix-based segmentation analysis of remotely sensed data*. Department of Computer Science, University of South Carolina. (de facto adviser).
14. John D. Althausen Jr. 1990. *Distribution of suspended sediment in a partially mixed estuary, Charleston Harbor, South Carolina, USA*. University of South Carolina.
15. Runcha Boribalburibhand. 1988. *Classification of mangrove forest near Laguna de Términos, Mexico, using Landsat TM data*. Department of Computer Science. University of South Carolina. (de facto adviser).
16. Steven B. Rutz. 1987. *Post-rediversion longitudinal water elevation and salinity variability in the Cooper River, SC*. University of South Carolina.
17. James Mason. 1986. *Morphologic evolution of a relocated mesotidal inlet, Captain Sam's Inlet, South Carolina*. University of South Carolina.
18. Harvey E. Seim. 1985. *Analysis of storm surges in Mississippi Sound*. University of South Carolina.
19. William C. Eiser. 1984. *Sheet flow as a component of total water flux in an estuarine marsh*. University of South Carolina.
20. Franklin B. Schwing. 1981. *Conceptual model for entrainment of larvae in a well mixed estuary*. University of South Carolina.
21. Jeffrey E. Greer. 1978. *Anatomy of water currents adjacent to Carrie Bow Cay, Belize*. University of South Carolina.
22. Chun-Chien Shao. 1977. *On the existence of deep holes at tidal creek junctions*. University of South Carolina.
23. Sterling J. Crabtree. 1975. *The radiation balance over the North Inlet estuary for July 1974*. University of South Carolina.
24. J. Luke Hause. M.S. 1974. *Manganese flux and occurrence in the Ashley River, SC*. University of South Carolina.

External Examiner/Opponent at Ph.D. Defenses

Have served as the Ph.D. opponent at dissertation defenses at the Meteorological Institute, Stockholm University 2004 (B. Jönsson) and 2012 (H. Correl); and have served as the external examiner on dissertations for Ph.D. students at University of Waikato (New Zealand), Rhodes University (South Africa), and the University of the West Indies (Jamaica).

Mentoring and Funding of Undergraduate Research Assistants

Have directed and supervised 79 undergraduate research assistants, mostly junior and senior science students at the University of South Carolina and Texas A&M University, 1973-2009. The students were hired on research grants, on average working 10-15 hours/week for 2 academic years.

Post-Doctoral Research Colleagues

Have hosted many professors/research scientists in my research laboratories, including at the University of South Carolina Prof. Dr. Luiz Bruner de Miranda (IOUSP, Universidade de São Paulo) 1983-1984; Dr. Wayne Wilmot (NOS/NOAA) 1983-1984; Prof. Dr. Ong Jin Eong (Universiti Sains Malaysia) 1983; Dr. R. J. Uncles (Plymouth Marine Laboratory, UK) 1984; Dr. Eric Wolanski (Australian Institute of Marine Science) 1984; Dr. C. A. F. Schettini (UNIVALI, Brazil) 1995, Dr. Rahanna Juman (Institute of Marine Affairs, Trinidad) 2002-2003; and at Texas A&M University, Dr. César Costa (Fundação Universidade Federal do Rio Grande, Brazil) and Dr. Gilberto T. M. Dias (Universidade Federal Fluminense, Brazil) 2008.

Post-docs and Research Technicians

Have supported and supervised 11 full-time research technicians at the University of South Carolina 1973-2004; and as part of the "Strategic Management of Marine Ecosystems in Nakheel Projects", I co-supervised 5 post-docs/research technicians (Dr. David Feary, Dr. Elise Marquis, Dr. Geórgenes Cavalcante, Dr. Andrew Bauman and Dr. Paolo Usseglio) in Dubai, 2007-2010.

"Sandwich" Students

Have supported three Brazilian Ph.D. "sandwich" students with support from CAPES, Brazil, from Universidade Federal Fluminense (Alessandro Filippo and Mauricio Molisani) at the University of South Carolina, 2002 and 2003, respectively; and one student (Geórgenes Cavalcante) at Texas A&M University, 2005-2007.

Consulting Projects

Have undertaken a number of consulting projects, including:

- Nobel Energy, Houston, Texas, USA. Physical oceanographic characteristics of the southwestern Caribbean, a component of an EIA for oil and gas exploration on the Nicaraguan shelf, Managua, Nicaragua, 2009.
- Golder Associates Brasil Ltd. Hydrological and oceanographic factors impacting environmental liability management assessment, Ponta Uba, Espiritu Santo, 2003.
- Research Planning Inc., Columbia, SC, USA. Associate in coastal processes projects, 2003-2004.
- Agra E & E (Canada). ADB TA 1640 - *Institutional strengthening for shoreline management*, Coastal Engineering Division, Department of Irrigation and Drainage, Kuala Lumpur, Malaysia, 1994-1996.
- ECOMAR (Mexico). *Coastal oceanographic characteristics: Cancun-Tulum Corridor, Quintana Roo*. (Mayaluum, Xaac, Xel-Há y Desarrollo Ecológico Tulum. 1994.
- Division of Marine Sciences, UNESCO, Paris, France. Developed GEF coastal biodiversity and climate change proposals, 1990-1992.
- Penang Development Corporation, Malaysia. Developed a numerical circulation model for Penang Strait, 1986.
- Conservation and Environment, Port Moresby, Papua New Guinea. EIA for construction of a dam on the Purari River, 1980.
- Coastal Environments, Baton Rouge, LA, USA. Siting of LNG port terminals, 1975.
- Expert witness in a number of legal court cases, USA, 1973-1990, including developments of barrier islands, diking of marshlands, impact of boat marinas on water quality, tidal flushing in salt marsh estuaries, the drift of a murder victim under action of currents and winds.

Research Grants and Contracts

Have obtained research funding for ~90 different projects from Federal agencies, international institutions, and private foundations, as either principal or co-principal for a total value of >\$20M,

including:

- SDC. Integrated ecological assessment of Antigua and Barbuda: identification of management options. 2006-2008 (3 years). Principal Investigator: B. Kjerfve. \$4.7 M.
- Nakheel (Dubai). Strategic Management of Marine Ecosystems in Nakheel Projects, 2007-2009 (3 years), Co-principal investigators: P. F. Sale, B. Kjerfve, K. G. Drouillard, and C. Trick, \$6.0 M through UNU-INWEH.
- SCOR/LOICZ/IAPSO. Mechanisms of sediment retention in estuaries. Working Group #122. Co-PI with Gerardo M. E. Perillo. 2004-2006. \$45,000 plus an additional \$7,500 from ONR.
- The Nature Conservancy. Oceanic simulation modeling along the Meso-American Reef in the Western Caribbean Sea to explore reef connectivity. 2003-2008 (60 months). Principal investigator. \$50,000.
- World Bank/MesoAmerican Barrier Reef System. Physical Oceanography/Modeling, a Component of the MBRS Synoptic Monitoring Program. Principal investigator. 2002-2003. \$55,352.
- Land-Ocean Interactions in the Coastal Zone (LOICZ/IGBP). Natural and anthropogenic material fluxes and their impact on coastal systems in the coastal zone. Principal investigator. 2001-2002. \$10,700.
- National Science Foundation. Marine information processing applications in marine science undergraduate laboratories. Principal investigator. 1997-2000. \$50,000.
- Mellon Foundation/The Nature Conservancy's Ecosystem Research Program. Physical-biological coupling in a tropical bay with implications for conservation and environmental management: inner Gulf of Honduras. Principal investigator. 1997-2002. \$202,000.
- National Science Foundation/Inter American Institute for Global Change. Changes in temperate estuaries. Co-principal investigator. 1996-1997. \$50,000.
- National Science Foundation. The role of oyster reefs in the structure and function of tidal creeks. Co-principal investigator. 1996-2000. \$700,000.
- South Carolina Coastal Council. Database of hydrological time series data from the Charleston estuarine system. CHP Project 94-1.20. Principal investigator. 1995-1996. \$63,477.
- The John D. and Catherine T. MacArthur Foundation. Caribbean Coastal Marine Productivity (CARICOMP): A cooperative program of marine research institutions in the Caribbean region. Co-principal investigator. 1994-1998. \$355,000.
- NOAA Coastal Ocean Program, Estuarine Habitat Research Program. Salt-marsh geomorphology and ecological development: influences upon habitat linkages within and across ecosystem boundaries. Principal investigator. 1994-1997. \$106,420.
- South Carolina Coastal Council. Analysis of hydrological time series data from the Charleston estuarine system. I, II, III. Principal investigator. 1992-1995. \$137,910.
- National Science Foundation. Geographic database for the salt marsh ecosystem of the Southeastern United States. DIR91-19725. Co-principal investigator. 1992-1993. 90,522.
- The John D. and Catherine T. MacArthur Foundation. Caribbean Coastal Marine Productivity (CARICOMP): A cooperative program of marine research institutions in the Caribbean region. Co-principal investigator. 1991-1993. \$300,000.
- National Science Foundation. Long-term ecological research at the North Inlet estuary. BSR-9011664. Co-principal investigator. 1991-1992. \$395,850.
- Sea Grant, NOAA. Assessment and modeling of estuarine flow and transport processes in response to changing freshwater discharge. R-88-307. Principal investigator. 1990-1991. \$50,000.
- National Science Foundation. Dynamic characteristics of a hypersaline coastal lagoon: Lagoa de Araruama, Rio de Janeiro, Brazil. INT. 9001583. Principal investigator. 1990-1993. \$16,799.
- National Science Foundation. Multi-scale investigations of disturbance and impacts of Hurricane Hugo on an LTER coastal landscape. BSR-9001807. Co-principal investigator, 1989-1990. \$50,000.
- Sea Grant/NOAA. Assessment and modeling of estuarine flow and transport processes in response to changing freshwater discharge. R-88-307. Principal investigator. 1988-1990. \$134,600.
- National Geographic Society. Flushing of coastal lagoons along the Fluminense coastline, Brazil. Grant 3823-88. Principal investigator. 1988-1990. \$11,500.

- National Ocean Service/NOAA. Investigation and modeling of estuarine dynamics in Charleston Harbor, South Carolina. Principal investigator. 1988-1989. \$33,100.
- Sea Grant/NOAA and Office of Coastal Resources Management. Simulation modeling of dispersion processes in Charleston Harbor, South Carolina. Principal investigator. 1987-1988. \$29,800.
- National Science Foundation. Circulation and dispersion in a faulted Brazilian estuary: Itamaracá. INT-8612499 (24 months). Principal investigator. 1985-1986. \$15,014.
- National Science Foundation. Long-term ecological research at the North Inlet estuary. BSR-8514326. Co-principal investigator. 1986-1990. \$1,825,000.
- National Aeronautics and Space Administration. Application of Landsat Thematic Mapper images to assess circulation and dispersion in coastal lagoons. NAS5-28741. Principal investigator. 1985-1987. \$225,731.
- National Science Foundation. Landscape ecology of a southeastern salt marsh--a nutrient cycling approach. BSR-8415935. Co-principal investigator. 1985-1986. \$450,000.
- Department of Energy. Circulation and dispersion in Lake Calcasieu, Louisiana: numerical modeling and field measurements. DE-FG01-83EP31111/MSU 72-13. 1983-1986. Principal investigator. \$125,400.
- US Army Corps of Engineers. Synthesis of oceanographic data from the Gulf of Mexico for one 66-day period in 1980 and two 66-day periods in 1981. DACW01-83-C-0031. Principal investigator. 1983. \$48,945.
- Swedish Research Council (Naturvetenskapliga Forskningsrådet). Modelling of the Baltic Ecosystem. Principal investigator. 1982. \$22,000.
- National Science Foundation. Mechanisms of coupling between the water column and intertidal regions in a southeastern estuarine ecosystem. DEB-8119752. Co-principal investigator. 1982-1985. \$714,052.
- National Science Foundation. Ecological patterns and processes in the North Inlet estuary, South Carolina. (LTER, long-term ecological research at the North Inlet estuary). DEB-8012165 and BSR-8012165. Co-principal investigator. 1979-1985. \$1,473,599.
- National Science Foundation. Dynamics of a southeastern coastal estuary ecosystem. Co-principal investigators. DEB-8004275. 1980-8192. \$399,968.
- National Science Foundation (US-Australia Cooperative Science Program). Coastal dynamics and exchange processes in high-energy estuarine/shallow-marine systems. INT 79-11180. Principal investigator. 1980-1981. \$18,420.
- National Science Foundation. Material fluxes through a tidal salt marsh estuary: an ecosystem study in outwelling. DEB-7683010. Co-principal investigator. 1977-1980. \$885,492.

Scientific Publications

In total, I have authored 247 publications, including books (edited and authored), peer-reviewed journal articles, peer-reviewed book chapters, technical-scientific publications and reports, and other non-science publications..

Google Scholar metrics on 3 January 2018. Citations: 10,265; h-index: 50; i10-index: 148. (<https://scholar.google.ae/citations?hl=en&user=qhZPdEEAAAAJ>)

Scientific Books (total 13 in print)

1. Miranda, L. B., F. P. Andutta, B. Kjerfve and B. M. Castro Filho. 2017. Fundamentals of Estuarine Physical Oceanography. Ocean Engineering & Oceanography Vol. 8, Springer. ISBN: 978-981-10-3040-6 (Print). 426 pp.
2. Miranda, L. B., B. M. Castro Filho and B. Kjerfve. 2012. *Princípios de oceanografia física de estuários* (Principles of physical oceanography of estuaries). 2a edição. Edusp - Editora da Universidade de São Paulo, São Paulo. (ISBN: 978-85-314-0675-1). 426 pp.
3. Miranda, L. B., B. M. Castro Filho and B. Kjerfve. 2002. *Princípios de oceanografia física de estuários* (Principles of physical oceanography of estuaries). Edusp - Editora da Universidade de São Paulo, São Paulo. (ISBN: 85-314-0675-7). 414 pp.
4. Seeliger, U. and B. Kjerfve (eds.) 2001. *Coastal Marine Ecosystems of Latin America*. Ecological Studies. Vol. 144. Springer-Verlag, Heidelberg. 360 pp.
5. Kjerfve, B. (ed.) 1999. CARICOMP - *Caribbean coral reef, seagrass, and mangrove sites*.

- Coastal Regions and Small Islands Papers 3. UNESCO, Paris. 345 pp.
6. Kjerfve, B., L. D. Lacerda and E. S. Diop (eds.) 1997. *Mangrove Ecosystem Studies in Latin America and Africa*. UNESCO, Paris. 349 pp.
 7. Mangrove Task Team (B. Kjerfve, D. J. Macintosh, B. Clough, S. Sabhasri, C. Field, S. Al-Numairy, P. R. Bacon, C. Caratini, H. T. Chan, E. S. Diop, J. Ellison, L. D. Lacerda, M. Vannucci and A. Yáñez-Arancibia). 1994. *Assessment and monitoring of climatic change impacts on mangrove ecosystems*. UNEP Regional Seas Reports and Studies. Vol. 154. United Nations Environmental Programme, Nairobi, Kenya. 62 pp.
 8. Kjerfve, B. (ed.) 1994. *Coastal lagoon processes*. Elsevier, Amsterdam, Netherlands. (ISBN 0-444-88258-8). 577 pp.
 9. Lacerda, L. D., B. Turcq, B. Knoppers and B. Kjerfve (eds.) 1992. *Paleoclimatic changes and the carbon cycle*. Série Geoquímica Ambiental. Vol. 1. Sociedade Brasileira de Geoquímica, Rio de Janeiro. 114 pp.
 10. Kjerfve, B. 1990. *Manual for investigation of hydrological processes in mangrove ecosystems*. UNESCO/UNDP, New Delhi, India. 79 pp.
 11. Kjerfve, B. (ed.) 1988. *Hydrodynamics of Estuaries: Estuarine Case Studies*. Vol. 2. CRC Press, Boca Raton, FL. 125 pp.
 12. Kjerfve, B. (ed.) 1988. *Hydrodynamics of Estuaries: Estuarine Physics*. Vol. 1. CRC Press, Boca Raton, FL. 163 pp.
 13. Kjerfve, B. (ed.) 1978. *Estuarine Transport Processes*. University of South Carolina Press. 331 pp.

Scientific Journal Articles - Peer-reviewed (total 115 in print)

1. Chollett, I., R. Collin, C. Bastidas, A. Cróquer, P. M. H. Gayle, E. Jordán-Dahlgren, K. Koltes, H. Oxenford, A. Rodriguez-Ramirez, E. Weil, J. Alemu, D. Bone, K. C. Buchan, M. Creary Ford, E. Escalante-Mancera, J. Garzón-Ferreira, H. M. Guzmán, B. Kjerfve, E. Klein, C. McCoy, A. C. Potts, F. Ruíz-Rentería, S. R. Smith, J. Tschirky, J. Cortés. 2017. Widespread local chronic stressors in Caribbean coastal habitats. *PLoS ONE* 12(12): e0188564. <https://doi.org/10.1371/journal.pone.0188564>.
2. Medina-Gómez, I., C. J. Madden, J. Herrera-Silveira and B. Kjerfve. 2016. Response of *Thalassia Testudinum* morphometry and distribution to environmental drivers in a pristine tropical lagoon. *PLoS ONE* 11(10): e0164014. doi:10.1371/journal.pone.0164014.
3. Medina-Gómez, I., C. Enríquez, B. Kjerfve, I. Mariño-Tapia and J. Herrera-Silveira. 2016. Hydrodynamic variability in a microtidal coastal bay geographically susceptible to north east trade winds. *Gulf and Caribbean Research*, Vol 27(1):52-65. doi:10.18785/gcr.2701.06.
4. Lerche, I, A. Newton, B. Kjerfve and N. A. Bellefontaine. 2014. Arctic Ecology: What does one need for a sustainable future? *Hallesches Jahrbuch* 36:35-50.
5. Medina-Gomez, I., B. Kjerfve, I. Mariño and J. Herrera-Silveira. 2014. Sources of salinity variation in a coastal lagoon in a karst landscape. *Estuaries and Coasts* 37(1). doi:10.1007/s12237-014-9774-9.
6. Cavalcante, G. H. B., D. A. Feary and B. Kjerfve. 2013. Effects of tidal range variability and local morphology on hydrodynamic behavior and salinity structure in the Caeté River estuary, North Brazil. *International Journal of Oceanography*. doi:10.1155/2013/315328.
7. Cavalcante, G. H., B. Kjerfve and D. Feary. 2012. Examination of residence time and its relevance to water quality within a coastal mega-structure: The Palm Jumeirah Lagoon. *Journal of Hydrology*, doi: 10.1016/j.jhydrol.2012.08.027.
8. Ezer, T., W. D. Heyman, C. Houser and B. Kjerfve. 2012. Extreme flows and unusual water levels near a Caribbean coral reef: was this a case of a "perfect storm"? *Ocean Dynamics*, doi: 10.1007/s10236-012-0545-5.
9. Filippo, A., A. Rebelo Torres Jr., B. Kjerfve and A. Monat. 2012. Application of artificial neural network (ANN) to improve forecasting of sea level. *Ocean & Coastal Management* 55:101-110, doi:10.1016/j.ocecoaman.2011.09.007.
10. Ezer, T., W. D. Heyman, C. Houser and B. Kjerfve. 2011. Modeling and observations of high-frequency flow variability and internal waves at a Caribbean reef spawning aggregation site. *Ocean Dynamics*, doi:10.1007/s10236-010-0367-2, 61(5), 581-598.
11. Cavalcante, G. H., B. Kjerfve, A. D. Bauman and P. Usseglio. 2011. Water currents and water budget in a coastal mega-structure, Palm Jumeirah Lagoon, Dubai, UAE. *Journal of Coastal Research* 27(2):384-393, doi: 10.2112/JCOASTRES-D-09-00177.1.

12. Sale, P. F., D. A. Feary, J. A. Burt; A. G. Bauman, G. H. Cavalcante, K. G. Drouillard, B. Kjerfve, E. Marquis, C. G. Trick, P. Usseglio and H. Van Lavieren. 2010. The growing need for sustainable ecological management of marine communities of the Persian Gulf. *Ambio*, doi: 10.1007/s13280-010-0092-6. 14 pp.
13. Cavalcante, G. H., B. Kjerfve, B. Knoppers and D. A. Feary. 2010. Coastal currents adjacent to the Caeté Estuary, Pará Region, North Brazil. *Estuarine Coastal and Shelf Science*. doi:10.1016/j.ecss.2010.03016, pp. 84-90.
14. Heyman, W. D. and B. Kjerfve. 2008. Characterization of transient multi-species reef fish spawning aggregations at Gladden Spit, Belize. *Bulletin of Marine Science* 83(3):531-551.
15. Molisani, M. M., L. D. Lacerda and B. Kjerfve. 2007. Hidrologia - estudo aponta impactos da transposição de bacias nas áreas que recebem a água - Um salto arriscado. *Ciência Hoje* 41(243):64-66.
16. Sheng, J., L. Wang, S. Andréfouët, C. Hu, B. G. Hatcher, F. E. Muller-Karger, B. Kjerfve, W. D. Heyman and B. Yang. 2007. Upper ocean response of the Mesoamerican Barrier Reef System to Hurricane Mitch and coastal freshwater inputs: A study using Sea-viewing Wide Field-of-view Sensor (SeaWiFS) ocean color data and a nested-grid ocean circulation model. *Journal of Geophysical Research* 112(C07016), doi:10.1029/2006JC003900.
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19. Molisani, M. M., B. Kjerfve, A. P. Silva and L. D. Lacerda. 2006. Water discharge and sediment load to Sepetiba Bay from an anthropogenically-altered drainage basin, SE Brazil. *Journal of Hydrology* 331(3-4): 425-433.
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26. Patchineelam, S. M. and B. Kjerfve. 2004. Suspended sediment variability on seasonal and tidal time scales in the Winyah Bay estuary, South Carolina. *Estuarine, Coastal and Shelf Science* 59(2): 307-318.
27. Filippo, A., B. Kjerfve, R. N. Candella and A. R. Torres, Jr. 2003. Variabilidade meteorológica do nível do mar em baixa frequência em Cananéia, SP e Ilha fiscal, RJ. *Pesquisa Naval (Suplemento Especial da Revista Marítima Brasileira)* 16: 175-190.
28. Thattai, D., B. Kjerfve and W. D. Heyman. 2003. Hydrometeorology and variability of water discharge and sediment load in the inner Gulf of Honduras, Western Caribbean. *Journal of Hydrometeorology* 4(6): 985-995.
29. Souza, M. F. L., B. Kjerfve, B. Knoppers, W. F. L. Souza and R. N. Damasceno. 2003. Nutrient budgets and trophic state in a hypersaline coastal lagoon: Lagoa de Araruama, Brazil. *Estuarine, Coastal and Shelf Science* 57(5): 843-858.
30. Braga, C. Z. F., M. L. Vianna and B. Kjerfve. 2003. Environmental characterization of a hypersaline coastal lagoon from Landsat-5 TM data. *International Journal of Remote Sensing* 24(16): 3219-3234.
31. Ribeiro, C. H. A. and B. Kjerfve. 2002. Anthropogenic influence on the water quality in Guanabara Bay, Rio de Janeiro, Brazil. *Regional Environmental Change* 3: 13-19.

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34. Restrepo, J. D. and B. Kjerfve. 2002. The San Juan delta, Colombia: Tides, circulation, and salt dispersion. *Continental Shelf Research* 22(8): 1249-1267.
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Presentations, Published Abstracts, and Workshops

Have given more than 500 presentations at national and international scientific and professional meetings, often with published abstracts; have given invited lectures at more than 200 universities world-wide; and have participated in more than 200 specialized technical/scientific workshops and research planning meetings.

Personal

Dual citizen of USA and Sweden; Permanent resident of Brazil; Residence/work visa in UAE; Married; Three daughters; Languages: English, Swedish, and Portuguese; Personal interests: tennis, literature, the arts, the environment, and geopolitics.