
CURRICULUM VITAE

John T. Froeschke

Harte Research Institute for Gulf of Mexico Studies
Texas A&M University, Corpus Christi
6300 Ocean Dr. Corpus Christi, TX 78412
(361) 825-2028

Birth date October 5, 1976

Education

Institution	Degree:	Date:	Field of Study:
Arizona State University	B.S.	2000	Biology (Summa Cum Laude)
California State University, Northridge	M.S.	2004	Biology
Texas A&M University-Corpus Christi	Ph.D.	2009*	Coastal and Marine System Science

*Expected graduation date: December 2009

Present Position

2006 - present Harte Fellow, Harte Research Institute for Gulf of Mexico Studies-Texas A&M University-Corpus Christi. Reference: Greg Stunz

2009 - Quantitative Ecologist, Census of Marine Life Seabed Diversity Project. Reference: Tom Shirley

Professional background

2005 - 2006 Instructor, Department of Biology Occidental College, Los Angeles, CA.
Reference: Gary Martin, Ph.D.

2004 - 2006 Research Associate - Vantuna Research Group, Occidental College, Los Angeles, CA. Reference: Daniel Pondella II, Ph.D.

2001 - 2004 Research Associate - Nearshore Marine Fish Research Program California State University, Northridge, Northridge, CA. Reference: Larry Allen, Ph.D.

2001 - 2004 Teaching Associate - Department of Biology California State University, Northridge, Northridge, CA. Reference: Jennifer Matos, Ph.D.

2000 Teaching Assistant - Department of Biology, Arizona State University, Tempe AZ.
Reference: Edward Pfeiler, Ph.D.

Areas of Specialization

Research interests are in quantitative ecology with an emphasis in fisheries and marine ecology. Specifically, my research centers on understanding the relative value of habitat for aquatic organisms. Much of this work is directed towards determining temporal and spatial distributions of fishes as well as the causes and consequences of habitat use.

Publications

Manuscripts in Preparation

Froeschke, J.T., G.W. Stunz (2009) Origins of spotted seatrout stocks: assessing contribution of nursery grounds to adult stocks. Fisheries Management and Ecology

Froeschke, J.T., G.W. Stunz, M.W. Wildhaber (2009) Are Texas Estuaries Nursery habitat for coastal sharks: an empirical test of the shark nursery hypothesis. *Estuaries and Coasts*

Manuscripts in Review: (Peer Reviewed)

Froeschke, J.T., G.W. Stunz, M.W. Wildhaber (In review) Habitat selection patterns of coastal sharks in northwestern Gulf of Mexico. *Marine Ecology Progress Series*, submitted 29 July 2009

Froeschke, J.T., G.W. Stunz (In review) Hierarchical and interactive habitat selection in response to abiotic and biotic factors: The effect of hypoxia on habitat selection of juvenile estuarine fishes. *Journal of Experimental Marine Biology and Ecology*, submitted 9 July 2009

Publications: (Peer Reviewed)

Montagna, P.A., **J. Froeschke**. (*In Press*). Long-term biological effects of coastal hypoxia in Corpus Christi Bay, Texas, USA. *Journal of Experimental Marine Biology and Ecology*

Pondella, D.J. II, **J.T. Froeschke**, L.S. Wetmore, E. Miller, C.F. Valle, L. Medeiros. Demographic parameters of yellowfin croaker, *Umbrina roncadora*, (Perciformes:Sciaenidae) from the Southern California Bight. (2008) *Pacific Science* 62(4): 555-568

Froeschke, J.T., L.G. Allen and D.J. Pondella II. (2006) The fish assemblages inside and outside of a temperate marine reserve in southern California. *Bulletin of Southern California Academy of Sciences* 105(3): 128-142

Froeschke, J.T., L.G. Allen and D.J. Pondella II. (2005) The reef fish assemblage of the outer Los Angeles Federal Breakwater, 2002-2003. *Bulletin of Southern California Academy of Sciences* 104(2): 63-74

Technical Reports

Is Padre Island National Seashore Essential Shark Habitat?: Examination of demographics, feeding habitats, and nurseries for an important park fishery. (March 2009) **John T. Froeschke**. Report to National Park Service

Enhanced Receiving Water Monitoring Program (February 2005 to November 2005). Daniel J. Pondella, II, Ph.D. and **John T. Froeschke, M.S.** Chevron Products company, El Segundo Refinery (NPDES permit no. CA000337). May 2006

Enhanced Receiving Water Monitoring Program (February 2004 to November 2004). Daniel J. Pondella, II, Ph.D. and **John T. Froeschke, M.S.** Chevron Products company, El Segundo Refinery (NPDES permit no. CA000337). January 2006

Long-term Monitoring of Fishes on an Artificial Fishing Reef. An Interim Report to the Port of Los Angeles. **John T. Froeschke M.S.**, Daniel J. Pondella II, Ph.D. and Larry G. Allen, Ph.D. 2005

Long-term Monitoring of Fishes on an Artificial Fishing Reef. An Interim Report to the Port of Los Angeles. Daniel J. Pondella, II, Ph.D. and **John T. Froeschke M.S.** June 23, 2004.

Abstracts, Proceedings and Conference Presentations/Publications

* Best Paper Presentation[†] **National**; ^Δ **Regional**

Froeschke, J.T. Habitat selection patterns of coastal sharks in northwestern Gulf of Mexico. American Elasmobranch Society 2009, Portland, Oregon[†]

Froeschke, J.T., G.W. Stunz. Habitat selection patterns of coastal sharks in northwestern Gulf of Mexico. Benthic Ecology Meeting March 2009, Corpus Christi, TX[†]

*Melendez, P., **J. Froeschke**, G. Jeffress, and G. Stunz. 2009. Using GIS to characterize shark distribution patterns along the Texas coast. Annual TAMUS Louis Stokes Alliances for Minority Participation (LSAMP) Symposium. Corpus Christi, TX^Δ

***Froeschke, J.T.**, G.W. Stunz. The effect of hypoxia on habitat selection of juvenile estuarine fishes. Gulf Estuarine Research Society November 2008, New Orleans, LA^Δ

Carrillo, M., G. **Stunz**, M. Reese, J. Froeschke. 2008. The closing of Port Mansfield Channel and its impact on recreational fisheries in the Laguna Madre, TX. 2008 Annual TAMUS LSAMP Symposium. Houston, TX^Δ

Froeschke, J.T., G.W. Stunz. The effect of hypoxia on habitat selection of juvenile estuarine fishes. American Society of Ichthyologists and Herpetologists July 2008, Montreal, CA[†]

***Froeschke, J.T.**, G.W. Stunz. The effect of hypoxia on habitat selection of juvenile estuarine fishes. Texas Bays and Estuaries Society March 2008, Port Aransas, TX^Δ

Pondella, D. J. II, **J. T. Froeschke**, L. S. Wetmore, E. Miller, C. F. Valle, L. Medeiros. Demographic parameters of yellowfin croaker, *Umbrina roncadore*, (Perciformes: Sciaenidae) from the southern California bight. Western Society of Naturalist Ventura CA, 2008[†]

Froeschke, J.T., B.M. Haggin, D.J. Pondella II and L.G. Allen. 2005. The fish assemblage of an artificial and natural reef in the Horseshoe Kelp. Bull. So. Cal. Acad. Sci. Abstracts of Papers 104: 23^Δ

Froeschke, J.T. 2004. The reef fish assemblages inside and out of a marine reserve at Santa, Catalina Island, California. American Academy of Underwater Sciences, Long Beach, CA[†]

Froeschke, J. T. 2004. The fish assemblages inside and outside of a marine reserve at Santa Catalina Island, CA. *Bull. So. Cal. Acad. Sci. Abstracts of Papers* 103: 26-27 ^Δ

Froeschke, J.T. 2003. A comparison of reef fish assemblages between Santa Catalina Island and the Outer Los Angeles Federal Breakwall. *Western Society of Naturalists*, Long Beach, CA [†]

Froeschke, J.T. 2003. A comparison of reef fish assemblages between Santa Catalina Island and the Outer Los Angeles Federal Breakwall. *American Society of Ichthyologist and Herpetologists*, Manaus, Brazil [†]

Froeschke, J. T. 2003. A comparison of reef fish assemblages between Santa Catalina Island and the Outer Los Angeles Federal Breakwall. *Southern California Acedemy of Sciences*, Northridge, CA. *Bull. So. Cal. Acad. Sci. Abstracts of Papers* 102: 40 ^Δ

Research Grants

2007-2009 Is Padre Island National Seashore essential shark habitat?: Estimation of demographics feeding habitats, and nurseries for an important park fishery. **United States Department of the Interior/USGS.** G. Stunz (PI), M. Wildhaber(Co-PI), J. Froeschke (Co-PI)- \$34,066

Effects of hypoxia on estuarine fishes in their nursery habitats. **Texas A&M University System Texas Research Development Fund.** G. Stunz (PI), J. Froeschke (Co-PI)- \$35,196

Origins of spotted seatrout stocks: assessing contribution of nursery grounds to adult stocks? **Texas A&M University System Texas Excellence Fund.** G. Stunz (PI), J. Froeschke (Co-PI)- \$33,173

Froeschke, J. T. 2004. The fish assemblages inside and outside of a marine reserve at Santa Catalina Island, California. **Long Beach Aquarium Research Fund.** J. Froeschke (PI)- \$1000.00

A comparison of reef fish assemblages between Santa Catalina Island and the Outer Los Angeles Federal Breakwall. **California State University, Northridge Office of Graduate Studies.** J. Froeschke (PI)- \$700.00

Teaching Experience

Professionals skill for biology and biomedical sciences
- Texas A&M University-Corpus Christi - 1 Section
Oceanology- Occidental College - 2 Sections

Teaching Assistantships

Introduction to Biology – Texas A&M University-Corpus Christi - 2 Sections

Physiology - Texas A&M University-Corpus Christi	- 1 Section
Introduction to Biology (non-majors) - California State University, Northridge	-1 Section
Introduction to Biology I - California State University, Northridge; Texas A&M University, Corpus Christi	-11 Sections - 5 Sections
Introduction to Biology II - California State University, Northridge	

Graduate Assistantships

Marine Biology- California State University, Northridge	- 1 Section
Ecology of Marine Fishes- California State University, Northridge	- 1 Section

Professional experience

Harte Research Fellow Texas A&M University-Corpus Christi

Statistical analyst for field and laboratory studies in fisheries ecology laboratory (TAMU-CC) www.fisheries.tamucc.edu (2006 - present)

Spatial analyst for fisheries ecology laboratory (TAMU-CC) www.fisheries.tamucc.edu (2006 - present)

Field technician for quantitative sampling of marine organisms in the Gulf of Mexico (2006- present)

Research associate Occidental College, Los Angeles, CA

Laboratory supervisor of daily operations and laboratory technicians (2004-2006)

Environmental monitoring of nearshore marine habitats, including surveys of fishes, invertebrates, algae and water quality (2004-2006)

Management of laboratory operations and research technicians (2004-2006)

Field leader as part of the inventory of fishes in Morro Bay (2006)

Field leader as part of the fish inventory of San Diego Bay project (2005)

Field leader on invasive marine algae (*Caulerpa*) surveys in southern California (2005)

Field leader as part of the monitoring project for juvenile white seabass (*Atractocion nobilis*) hatchery (2004-2005)

Lead research diver as part of the Cooperative Research for the Assessment of Nearshore Environments (CRANE) project (2004-2005)

Impingement work at Encina Powerplant, Carlsbad, CA (2004-2005)

Research assistant California St. Univ., Northridge, Northridge CA

Quantitative surveys of fishes and invertebrates on SCUBA of natural and artificial reefs as part of an artificial reef monitoring program funded by the Port of Los Angeles (2001-2005)

Gill netting surveys as part of the monitoring project for juvenile white seabass (*Atractocion nobilis*) hatchery

Related Experience

Field researcher

Conducting quantitative visual census techniques on SCUBA and the quantitative collection of cryptic fishes with ichthyocide as part of my Master's thesis project

Field assistant

The mating behavior of black perch (*Embiotoca jacksoni*). Duties included observation of black perch on SCUBA and collecting specimens with a Hawaiian sling

Recruitment of cryptic reef fishes. Duties included deployment, retrieval and collection of larval fishes from settlement traps

Monitoring of intertidal fishes. Duties included collection, identification and data collection of intertidal fishes

Professional Organizations

Texas Chapter of the American Fisheries Society (TAFS)

Coastal Conservation Association (CCA)

American Academy of Underwater Scientists (AAUS)

American Society of Ichthyologists and Herpetologists (ASIH)

Southern California Academy of Sciences (SCAS)

Western Society of Naturalists (WSN)

Academic Honors

M.S. Biology, CSUN (3.94 GPA)

Graduated Summa Cum Laude, ASU (3.81 GPA)

Dean's List Arizona State University 1998-2000

President's List Mesa Community College 1998

Certifications

AAUS Research Diver, certified to lead dives to 100'

NAUI Master Scuba Diver

Nitrox

Caulerpa

First Aid, CPR, DAN Emergency oxygen administration

Boating safety certification

Synergistic Activities

Reviewer-Midland American Naturalist

Member-Conservation subcommittee, American Society of Ichthyologists and Herpetologists

Judge-Texas A&M University-Corpus Christi Undergraduate Research Symposium

Representative-Texas A&M University-Corpus Christi Island Days Symposium

Collaborators

Thomas Shirley. HRI Endowed Chair for Marine Biodiversity and Conservation Science

Larry G. Allen. Professor of Biology, California State University, Northridge

Daniel J. Pondella II. Assistant Professor of Biology, Occidental College

Graduate Advisors

Gregory W. Stunz. Endowed Associate Research Professor, Harte Research Institute for Gulf of Mexico Studies-Texas A&M University-Corpus Christi, Texas A&M University, Corpus Christi

Mark L. Wildhaber (Co-advisor). Quantitative Ecologist U.S. Geological Survey Columbia Environmental Research Center

Thesis Advisor

Larry G. Allen. Professor of Biology, California State University, Northridge.
