

BIOGRAPHICAL SKETCH

Roldán A. Valverde

Department of Biological Sciences

Southeastern Louisiana University, Hammond, LA 70402

Phone: (985)549-3029; e-mail roldan.valverde@selu.edu

Professional Training

| | | |
|------------------------------------|---------------------|------|
| Texas A&M University | Ph.D. Zoology | 1996 |
| Universidad Nacional of Costa Rica | B.S. Marine Biology | 1985 |

Appointments

| | |
|---|--------------|
| Scientific Director, Sea Turtle Conservancy | 2016-present |
| Professor of Biology, Southeastern Louisiana University | 2015-present |
| Associate Professor of Biology, Southeastern Louisiana University | 2010-2015 |
| Assistant Professor of Biology, Southeastern Louisiana University | 2004-2010 |
| Assistant Professor of Biology, Xavier University of New Orleans | 2001-2004 |
| Postdoctoral Fellow Center for Organogenesis, University of Michigan | 1998-2001 |
| Postdoctoral Fellow Diversity in the Sciences, University of Michigan | 1997-1998 |
| Green sea turtle season Field Coordinator, Caribbean Conservation Co. | 1996 |
| Zoology Lab Instructor, Texas A&M University | 1996 |

Five publications closely related to the proposed project (†grad and *undergraduate co-authors)

Cohn, W.B., Jones, R.A. †, **Valverde, R.A.**, Leiner K.A., and MacKenzie, D.S. 2010 Molecular cloning and regulation of mRNA expression of the thyrotropin β and glycoprotein hormone α subunits in red drum, *Sciaenops ocellatus*. *Fish Physiology and Biochemistry*, 36: 1277-1290.

Valverde, R.A., Selcer, K.W., Lara, R.* and Sibaja, J.* 2008. Lack of xenoestrogen-induced vitellogenin in male olive ridley sea turtles. *Revista de Biología Tropical*, 56 (Suppl. 4): 49-57.

Valverde, R.A., Stabenau, E., and MacKenzie, D.S. 2007. Physiology of ridley sea turtles. *In*: "Biology and Conservation of ridley turtles". Plotkin, P. (ed.). The Johns Hopkins University Press. Baltimore, pp. 119-149.

Valverde, R.A., Denver, R.J., Cortright, D.N., and Seasholtz, A. 2001 Biochemical characterization and expression analysis of corticotropin-releasing hormone binding protein of *Xenopus laevis*. *Molecular & Cellular Endocrinology*, 173: 29-40.

Valverde, R.A., Owens, D.W., MacKenzie, D.S., and Amoss, M.S. 1999 Basal and stress-induced corticosterone levels in olive ridley sea turtles (*Lepidochelys olivacea*) in relation to their mass nesting behavior. *The Journal of Experimental Zoology*, 284: 652-662

Five other selected significant publications

Valverde, R.A. Orrego, C.M. †, Tordoir, M.T. *, Gómez, F.M.*, Solís, D.S.†, Hernández, R.A.†, Gómez, G.B., Brenes, L.S., Baltodano, J.P., Fonseca, L.G.†, Spotila, J.R. Olive ridley mass nesting ecology and egg harvest at Ostional beach, Costa Rica. *Chelonian Conservation and Biology*. **In Press**.

Valverde, R.A., Wingard, S. *, Gómez, F. *, Tordoir, M.T. *, and Orrego, C.M.† 2010 Lethal effect of elevated incubation temperature on olive ridley sea turtle (*Lepidochelys olivacea*) embryos at Ostional Beach, Costa Rica, a mass nesting rookery. *Endangered Species Research*, 12: 77-86.

Fonseca, L.G.*, Murillo, G.A.*, Guadamúz, L., Spínola, R.M., **Valverde, R.A.** 2009. Downward but stable trend in the abundance of arribada olive ridley (*Lepidochelys olivacea*) sea turtles at Nancite Beach, Costa Rica for the period 1971-2007. *Chelonian Conservation and Biology*, 8(1):19-27.

- Valverde, R.A.**, Cornelius, S.E., and Mo, C.L. 1998 Decline of the olive ridley sea turtle (*Lepidochelys olivacea*) nesting assemblage at Nancite beach, Santa Rosa National Park, Costa Rica. *Chelonian Conservation and Biology*, 3: 58-63
- Lahanas, P.N., Bjorndal, K.A., Bolten, A.B., Encalada, S.E. †, Miyamoto, M.M., **Valverde, R.A.**, and Bowen, B.W. 1998 Genetic composition of a green turtle feeding ground population: Evidence for multiple origins. *Marine Biology*, 130: 345-352

Synergistic Activities

Sponsor of student research:

Trained 11 undergraduate and over 20 graduate students directly in lab and many others in Central America (Costa Rica, Panama & Nicaragua). Some are publication co-authors (see above).

Service to the scientific community: **a)** Reviewer for various scientific journals: (e.g.) *Animal Conservation*, *Chelonian Conservation & Biology*, *Endangered Species Research*, *Herpetological Review*, *Journal of herpetology*, *Latin American Journal of Aquatic research*, *Oecology*, *Revista de Biología Tropical*, *Revista Universidad y Ciencia*; **b)** *Ad hoc* reviewer and Panelist for the National Science Foundation; **c)** Reviewer for the USFWS; **d)** Reviewer for NOAA; **e)** Member of the Ostional Scientific Advising Board-Costa Rica; **f)** Board Member of the International Sea Turtle Society; **g)** Board Member of the Harvey L. Foster Foundation for Science Education, **h)** Member Editorial Board of the Marine Turtle Newsletter, **i)** Member of the Marine Turtle Specialist Group-IUCN.

Outreach and educational activities: Lead organizer of several (>5) sea turtle ecology training workshops in Costa Rica and Panama.

Collaborators

Collaborators in USA: Kyle Selcer, Duquesne University; James Spotila, Drexel University; David Owens, The College of Charleston; David Rostal, Georgia Southern University; Jennifer Keller, National Institute of Science and Technology; Michael Arendt, Marine Resources Research Institute of South Carolina; Duncan Mackenzie, Texas A&M University. Overseas: José Urteaga, Fauna & Flora International (Nic); Laura Brenes, Ministry of the Environment & Energy (CR); Luis Fonseca & Manuel Romeo Spínola, International Institute of Wildlife Management-UNA (CR); José Bonilla, Center for Cellular and Molecular Biology Research of the University of Costa Rica (CR); Kartik Shanker, Indian Institute of Science; Ernesto Albavera, Centro Mexicano de la Tortuga; Alberto Abreu Grobois, Instituto de Ciencias del Mar y Limnología, UNAM.

Graduate Advisors and Postdoctoral Sponsors: David Owens & Duncan MacKenzie, Texas A&M University; Robert Denver, University of Michigan.

Thesis Advisor: *MSc thesis advisor* (18): Rosemary Becker, Leonel Tiffer, Diana Solís, Lauren Smith, Jennifer Lee, Susana Wingard, Judd Thompson, Kimberly Smelker, Lisa Rodriguez, Stephanie Wolfe, Erin Thomas, Martha Villalba-Guerra, Florence Wen (*all @ Southeastern*); Luis Fonseca López (ICOMVIS-UNA, CR), Ricardo Hernández (Marine & Coastal Sciences-UNA CR), Jacinto Rodríguez and Marino Abrego, Universidad Marítima Internacional of Panama; Jean Jang, Royal Roads University of Canada; Vanessa Bézy UNC-Chapel Hill. *Dissertation co-advisor* (2): Jesús Tomás, University of Valencia, Spain; Carlos Mario Orrego, Drexel University. *MSc committees served* (4): April Bagwill, Dustin Siegel, Mallory Eckstut, Layla Freeborn, Cody Godwin, and Melanie Partin.

Tasha L. Metz, Ph.D.
Environmental Institute of Houston
University of Houston-Clear Lake
2700 Bay Area Blvd, Box 540
Houston, Texas 77058
Cell Phone: 409-457-6044

EDUCATION

- Ph.D. Wildlife and Fisheries Sciences, Texas A&M University, 2004
Dissertation Title: Factors influencing Kemp's ridley (*Lepidochelys kempii*) distribution in nearshore waters and implications for management
- M.S. Biology, Texas Christian University, 1997
Thesis Title: An empirical assessment of shell size, nodulosity, and surface area in relation to the position of Jamaican Littorines on shore
- B.S. Biology, Texas Christian University, 1995

PROFESSIONAL EXPERIENCE

- 2014 – Present *Consultant* (part-time) – Providing expertise on sea turtle biology and training for wildlife monitors on beach-related construction projects
- 2006 – Present *Lecturer*
Department of Marine Biology, Texas A&M University at Galveston (TAMUG)
- 2006 – 2010 *Postdoctoral Research Associate*
Sea Turtle and Fisheries Ecology Research Lab (STFERL), TAMUG
- 2004 – 2006 *Biology Instructor*
Math and Science Department, Galveston College
- 2000 – 2004 *Graduate Assistant - Teaching and Research*
Department of Marine Biology, STFERL and Sea Camp Program, TAMUG
- 1999 – 2000 *Graduate Assistant – Teaching*
Introductory Biology Department, Texas A&M University
- 1997 – 1999 *Environmental Scientist – Wetland Delineating and Biological Assessments*
Alan Plummer Associates, Inc.

PUBLICATIONS

Related to Project:

- 1) Landry, A.M. and T.L. Metz. 2008. An assessment of sea turtle assemblages in Texas estuaries. In Rees, A.F, M. Frick, A. Panagopoulou, and K. Williams, compilers. Proceedings of the Twenty-seventh Annual Symposium on Sea Turtle Biology and Conservation, NOAA Technical Memorandum NMFS-SEFSC-569, 262 pp.
- 2) Metz, T.L. and A.M. Landry. 2008. A telemetric assessment of sea turtle movements in Texas estuaries. In Rees, A.F, M. Frick, A. Panagopoulou, and K. Williams, compilers. Proceedings of the Twenty-seventh Annual Symposium on Sea Turtle Biology and Conservation, NOAA Technical Memorandum NMFS-SEFSC-569, 262 pp.
- 3) Metz, T. L., A.M. Landry, Jr., A.L. Moss, and K.I. St.Clair. 2012. Movements of juvenile green turtles (*Chelonia mydas*) in nearshore waters of the northwestern Gulf of Mexico.

In Jones, T., Todd and Wallace, Bryan P., compilers. Proceedings of the Thirty-first Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC-631, 306 pp.

- 4) Metz, T.L. and A.M. Landry, Jr. 2013. An assessment of green turtle (*Chelonia mydas*) stocks along the Texas coast, with emphasis on the lower Laguna Madre. *Chelonian Conservation and Biology* 12(2): 293-302.
- 5) Metz, T.L. and A.M. Landry, Jr. In Press. Trends in Kemp's ridley (*Lepidochelys kempii*) relative abundance, distribution, and size composition in nearshore waters of the northwestern Gulf of Mexico. *Gulf of Mexico Science*.

Others:

- 1) Landry, A.M. and T.L. Metz. 2009. Green turtle assemblages in Texas' Lower Laguna Madre. Final Report to the Texas Parks and Wildlife Department for KAST Restitution Funds. 31 pp. Submitted on 31 December 2009
- 2) Lang, R.C., J.C. Britton, and T. Metz, 1998. What to do when there is nothing to do: The ecology of Jamaican intertidal Littorinidae (Gastropoda: Prosobranchia) in repose. *Hydrobiologia*, 378(0):161-185.
- 3) Metz, T. L. and A.M. Landry. 2008. A Conceptual Model of Kemp's Ridley (*Lepidochelys kempii*) Occurrence in the Northwestern Gulf of Mexico. In Kalb, H, A. Rohde, K. Gayheart and K. Shanker, compilers. Proceedings of the Twenty-fifth Annual Symposium on Sea Turtle Biology and Conservation, NOAA Technical Memorandum NMFS-SEFSC-582, 204 pp.
- 4) Metz, T.L. and A.M. Landry, 2012. Preliminary observation of fibropapilloma virus in green turtles (*Chelonia mydas*) captured from Texas' lower Laguna Madre. In Jones, T., Todd and Wallace, Bryan P., compilers. Proceedings of the Thirty-first Annual Symposium on Sea Turtle Biology and Conservation. NOAA Technical Memorandum NMFS-SEFSC-631, 306 pp.
- 5) Tristan, T., D.J. Shaver, J. Kimbro, T. deMaar, T. Metz, J. George, and A. Amos. 2010. Identification of Fibropapillomatosis in Green Sea Turtles (*Chelonia mydas*) on the Texas Coast. *Journal of Herpetological Medicine and Surgery*: December 2010, Vol. 20, No. 4, pp. 109-112.

CURRENT FEDERAL AND STATE PERMITS

- National Oceanic and Atmospheric Administration - Protected Resources Research Permit # 18029
- Texas Parks and Wildlife Department - Scientific Research Permit SPR-0212-026
- Louisiana Wildlife and Fisheries Department - Natural Heritage Program Permit LNHP-16-031
- Louisiana Wildlife and Fisheries Department - Scientific Collection Permit SCP #29

ARCHIVED DATASETS

Sea Turtle Satellite Tracking Data (www.seaturtle.org/tracking)

Cooperative Marine Turtle Tagging Program (CMTTP) – University of Florida, Archie Carr Center for Sea Turtle Research (<https://accstr.ufl.edu/resources/tagging-program-cmttp/>)

George J. Guillen, Ph.D.
University of Houston Clear Lake – School of Science and Computer Engineering
2700 Bay Area Blvd, Box 540, 281-283-3950 guillen@uhcl.edu

EDUCATION

- 1996 University of Texas School of Public Health (Houston, TX). Ph.D. Environmental Science
- 1983 Texas A&M University (College Station, TX). M.S. Wildlife and Fisheries Sciences.
- 1979 Texas A&M University (Galveston, TX). B.S. Marine Biology. Dec. 1979.

PROFESSIONAL EXPERIENCE

2004- Present University of Houston Clear Lake City. Houston, Texas. Executive Director of the Environmental Institute of Houston. Responsible for overall management of the Environmental Institute of Houston.

2008 – Present University of Houston Clear Lake City. Houston, Texas. Associate Professor of Biology and Environmental Science. Research focused on impacts of contaminants, habitat quality and hydrology on freshwater, estuarine and marine fish communities.

2005- Present Texas A&M University. Galveston, Texas. Lecturer: Teach undergraduate fisheries population dynamics course and graduate marine biology courses.

2000-04 U.S. Department of Interior. Fish and Wildlife Service. Arcata, CA. Chief of the Fisheries and Contaminant Programs

1998-00 U.S. Department of Interior. BOEM (previously Minerals Management Service), New Orleans, LA. Gulf of Mexico Office. Toxicology and Risk Assessment Unit Chief

1993-98 Texas Natural Resource Conservation Commission. Environmental Assessment and Water Program Manager.

1993-98 University of Houston Clear Lake. Houston, Texas. Adjunct Faculty: Taught upper level undergraduate courses in zoology, ecology, fisheries science, marine biology.

1991-94 Texas A&M University. Galveston, Texas. Instructor: undergraduate fisheries mgt course.

1992-93 Texas Water Commission. District Manager. Manager of the TWC Houston District Office.

1988-92 Texas Water Commission. Environmental Monitoring and Assessment Program Manager. Manager of coastal and freshwater monitoring program within the Galveston Bay watershed.

1984-88 Texas Parks and Wildlife Department. Environmental Contaminants Biologist.

PUBLICATIONS

Related to Project

Alleman, B. J. and G. J. Guillen. 2016. *Malaclemys terrapin littoralis* (Texas Diamond-backed Terrapin). Basking Behavior. Herpetological Review 47: 286.

Alleman, B. J., R. E. Byrne, S. G. Curtis, M. L. Gordon, and G. J. Guillen. 2015. *Graptemys pseudogeographica kohnii* (Mississippi Map Turtle). Geographic Distribution. Herpetological Review 46: 565.

Alleman, B. J., M. S. Lane, G. J. Guillen, and J. Muegge. 2015. *Graptemys pseudogeographica kohnii* (Mississippi Map Turtle). Geographic Distribution. Herpetological Review 46: 565.

Clarkson, E. and G. Guillen. 2015. *Malaclemys terrapin littoralis* (Texas Diamond-backed Terrapin). Evidence of social or group burrowing in diamond-backed terrapin. Herpetological Review 46(1) 83.

Guillen, G.J. and J. Oakley. 2013. Bycatch Mortality and Critical Life History Parameters of the Texas Diamondback Terrapin. EIH Final Report #13-004. UHCL-EIH. Houston, TX.

Others

Anderson, A., S. Heath and G. Guillen. 2016. A Time Activity Budget Of American Oystercatchers Breeding In Texas. Submitted to Wilson Journal of Ornithology. 128(3) *In press*

Guillen, G. and S. Curtis. 2016. Establishment of the bluefin killifish *Lucania goodei* in urban streams of Texas. Submitted to Texas Academy. *In Press*.

Hall, S.K., G. Guillen, H. Biggs, and R. Stokes. 2016. Volunteer's Age and Its Relationship to Community-Based Restoration Factors. Texas Journal of Science. *In Press*.

Guillen, G.J., G. Rainey and M. Morin. 2004. A simple rapid approach using coupled multivariate statistical methods, GIS and trajectory models to delineate areas of common oil spill risk. Journal of Marine Systems. 45:221-236.

Guillen, G.J. and M. Magnuson. 2002. Utilization of thermal refugia by salmonids in a stressed river system: implications for design of water quality and biological monitoring programs. Proceedings of the National Water Quality Monitoring Conference. Madison, Wisconsin.

ERIC E. PULIS

The Institute for Marine Mammal Studies
10801 Dolphin Lane, Gulfport, MS 39502
Mississippi State University, College of Veterinary Medicine
Phone: 218-230-8892 Email: epulis@imms.org

Ph. D., The University of Southern Mississippi, Hattiesburg, MS. 2014. Department of Coastal Sciences. *Dissertation: Revision of 13 genera of Haploporidae (Trematoda)*.
M.S., University of North Dakota, Grand Forks, ND. 2007. Department of Biology. Minor Geography. *Thesis: Ecology of wood frog parasites on the northern plains*.
B.S., University of North Dakota, Grand Forks, ND. 2004. Fisheries and Wildlife Biology.

Professional Experience

5/14-Current **Marine Conservation Ecologist / Stranding Coordinator** Institute for Marine Mammal Studies
8/07-5/14 **Graduate Research Assistant.** The University of Southern Mississippi.
6/08-7/12 **Graduate Teaching Assistant.** The University of Southern Mississippi. Summer Field Program.
8/04-5/07 **Graduate Teaching Assistant.** University of North Dakota.
5/04-8/06 **Graduate Research Assistant.** University of North Dakota.

Selected Publications

- Heaton, A.J., Pulis, E.E., Pitchford, J.L., Hatchett, W.L., Carron, A.M., Solangi, M. (2016) Prevalence and transience of ingested fishing hooks in Kemp's Ridley Sea Turtles. *Chelonian Conservation and Biology*. 15: *in-press*.
- Andres, M.J., Pulis, E.E., Overstreet, R.M. 2016. Description of three species of *Isorchis* (Digenea: Atractotrematidae) from Australia. 61: 590-601.
- Pitchford, J.L., Pulis, E.E., Evans, K., Shelley, J.K., Serafin, B.J.S., Solangi, M. (2016) Seasonal bottlenose dolphin (*Tursiops truncatus*) density estimates in the Mississippi Sound from 2011 – 2013. *Southeastern Naturalist*. 15: 188-206.
- Coleman, A.T., Pulis, E.E., Pitchford, J.L., Crocker, K., Heaton, A., Carron, A.M., Hatchett, W., Shannon, D., Austin, F., Dalton, M., Clemons-Chevis, C., Solangi, M. (2016) Population Ecology and rehabilitation of incidentally captured Kemp's ridley sea turtles (*Lepidochelys kempii*) in the Mississippi Sound. *Herpetological Conservation and Biology*. 11: 253-264.
- Hildebrand, J., Pulis, E. E., Tkach, V. V. (2015) Redescription and phylogenetic relationships of the rare *Lyperosomum sarothrurae* Baer, 1959 (Digenea: Dicrocoeliidae). *Acta Parasitologica*, 60: 371-377.
- Gustafson, K.D., Newman, R.A., Pulis, E.E., Cabarle, K.C. (2015) A skeletochronological assessment of age-parasitism relationships in wood frogs (*Lithobates sylvaticus*). *Journal of Herpetology*, 49: 122-130.
- Greiman, S.E., Tkach, V.V., Pulis, E.E., Fayton, T.J., Curran, S.S. (2014) Large scale screening of digeneans for *Neorickettsia* endosymbionts using real-time PCR reveals new *Neorickettsia* genotypes, host associations and geographic records including first reports from Australia and China. *PLOS ONE*. 9:1-9.

- Pulis, E.E., Curran, S.S., Andres, M.J., Overstreet, R.M. (2014) Change in rank of Megaperidae (Trematoda) to Megaperinae within the Apocreadiidae and description of *Haintestinum amplum* n. g., n. sp. *Parasitology International*. 63:269-274.
- Pulis, E.E., Fayton, T.J., Curran, S.S., Overstreet, R.M. (2013) A new species of *Intromugil* (Digenea: Haploporidae) and redescription of *Intromugil mugilicolus*. *Journal of Parasitology*. 99: 501-508.
- Pulis, E.E., Overstreet, R.M. (2013) Review of haploporid (Trematoda) genera with ornate muscularisation in the region of the oral sucker, including four new species and a new genus. *Systematic Parasitology*. 84: 167-191.
- Pulis E.E., Tkach V.V., Newman R.A. (2011) Helminth parasites of the wood frog, *Lithobates sylvaticus*, in prairie pothole wetlands of the northern Great Plains. *Wetlands* 31: 675-685.

Research Presentations

- Pulis, E., Fujiwara, M., Pitchford, J., Heaton, A., Solangi, M. Estimation of survival and capture probability of juvenile Kemp's Ridleys (*Lepidochelys kempii*) in the Mississippi Sound, from recreational fishery incidental catch data. Southeast regional sea turtle meeting, Mobile, Alabama 10-12 February 2016.
- Cook, M., Pulis, E., Heaton, A., Carron, A. Pier Pressure: Incidental captures and recaptures of Kemp's Ridley sea turtles on Mississippi fishing piers. Southeast regional sea turtle meeting, Mobile, Alabama 10-12 February 2016.
- Moore, D., Heaton, A., Hatchett, W., Pulis, E., Carron, A., Solangi, M. Ingested and excreted fishing hooks and elasmobranch vertebrae from a Kemp's Ridley (*Lepidochelys kempii*) sea turtle. Southeast regional sea turtle meeting, Mobile, Alabama 10-12 February 2016. Poster presentation
- Clarkson, P., Pulis, E., Valverde, R. Hooked on Kemp's Ridleys. Southeast regional sea turtle meeting, Mobile, Alabama 10-12 February 2016. Poster presentation
- Pitchford, J., Pulis, E., Coleman, A., Solangi, M. Diet analysis of Kemp's Ridley sea turtles in the Mississippi Sound. Southeast regional sea turtle meeting, Mobile, Alabama 10-12 February 2016. Poster presentation
- Pulis, E.E., Coleman, A.T., Heaton, A., Carron, A., Hatchett, W., Pitchford, J.L., Shannon, D., and Solangi, M. Rehabilitation and ecology of immature kemp's ridley sea turtles (*Lepidochelys kempii*) in the northern Gulf of Mexico, Southeast regional sea turtle meeting, Jekyll Island, Georgia 4-7 February 2015.

Ad-hoc reviewer

Acta Parasitologica; Comparative Parasitology; Folia Parasitologica; Journal of Helminthology; Journal of Parasitology; Marine Ecology Progress Series; Parasite; Parasitology; Parasitology International; Southeastern Naturalist; Systematic Parasitology.

Endorsements

HAZWOPPER Training 24 hours (2010).

Southeastern Fisheries Science Center sea turtle safe handling and tagging techniques course (2014).

Collaborative Institutional Training Initiative (CITI) courses on responsible conduct of research (research ethics) and laboratory (and wild) animal care and use IACUC on fishes (April 2011).
