

CURRICULUM VITAE

Irene Teresa Rodríguez

Laboratory Manager and Lecturer of Biology
Department of Life and Health Sciences
University of North Texas at Dallas
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AREA OF EXPERTISE

Systematics and biodiversity of decapod crustaceans. Use of molecular and morphological approaches to understand the diversity, biogeography, and evolution of decapod crustaceans. Molecular genetics of marine mammals. Population genetics of seagrasses. Conservation and management of marine biodiversity. Teaching experience in biology, genetics, evolutionary ecology, conservation biology, and environmental science.

EDUCATION

Ph. D. in Environmental and Evolutionary Biology

University of Louisiana at Lafayette, Lafayette, LA, USA. May 2005

M. Sc. in Conservation and Management of Natural Resources (Specialty in Conservation)

Universidad Michoacana de San Nicolas de Hidalgo, Morelia, Michoacan, Mexico. July 2003

B. Sc. in Biology with Honors

Universidad Nacional Autonoma de Mexico, Mexico, D. F. Mexico. November 1996

PROFESSIONAL EXPERIENCE

Laboratory Manager

University of North Texas at Dallas, Division of Liberal Arts and Life Sciences, Dallas, TX
2012-present

Lecturer of Biology

University of North Texas at Dallas, Division of Liberal Arts and Life Sciences, Dallas, TX
2012-present

Spring 2017	Genetics (Lecture) Evolutionary Ecology (Lecture – Graduate Program)
Fall 2016	Biology for Science Majors I Lab (Laboratory – Two Sections) Biology for Educators (Laboratory – Two Sections)
Summer 2016	Conservation Biology (Lecture – Undergraduate and Graduate Program)
Spring 2016	Biology for Educators (Lecture – ONLINE – and Laboratory) Genetics (Lecture)

Fall 2015 Biology for Educators (Lecture – ONLINE – and Laboratory)
 Environmental Science (Laboratory – Two Sections)
 Summer 2015 Environmental Science (Lecture and Laboratory – ONLINE)
 Evolutionary Ecology (Lecture – Graduate Program)
 Spring 2015 Genetics (Lecture)
 Conservation Biology (Lecture – Graduate Program)
 Fall 2014 Biology for Educators (Lecture and Laboratory)
 Context of Chemistry (Laboratory)
 Spring 2014 Biology for Educators (Lecture and Laboratory)
 Fall 2013 Environmental Science (Lecture and Laboratory)
 Biology for Educators (Laboratory)
 Spring 2013 Environmental Science (Lecture and Laboratory)
 Fall 2012 Environmental Science (Lecture and Laboratory)

Postdoctoral Fellow

Universidad Nacional Autónoma de México, Instituto de Ciencias del Mar y Limnología, Puerto Morelos, Quintana Roo, México
 2009-2011

Resident Research Associate

National Research Council, at National Oceanic and Atmospheric Administration, Lafayette, LA
 2008-2009

Biological Technician

Institute for Marine Mammal Studies, at National Oceanic and Atmospheric Administration, Lafayette, LA
 2005-2007

SCHOLARSHIP

Refereed Journal Articles

Van Tussenbroek, B. I., T. Valdivia-Carrillo, **I.T. Rodríguez-Virgen**, S. N. M. Sanabria-Alcaraz, K. Jiménez-Durán, K. J. Van Dijk, and G. J. Marquez-Guzmán. 2016. Coping with potential bi-parental inbreeding: limited pollen and seed dispersal and large genets in the dioecious marine angiosperm *Thalassia testudinum*. *Ecology and Evolution* 6: 5542–5556.

Rodríguez, I. T., G. Hernández, and D. L. Felder. 2006. Phylogenetic relationships among western Atlantic Porcellanidae (Decapoda: Anomura), based on partial sequences of the mitochondrial 16S rRNA gene, with comments on morphology. *Crustacean Research, Special Number* 6: 115-130.

Rodríguez, I. T., G. Hernández, and D. L. Felder. 2005. Review of the Western Atlantic Porcellanidae (Crustacea: Decapoda: Anomura) with New Records, Systematic Observations, and Comments on Biogeography. *Caribbean Journal of Science* 41: 544-582.

Rodríguez, I. T., G. Hernández, I. Magán, J. A. Bolaños, and D. L. Felder. 2004. Larval development of *Pachycheles serratus* (Decapoda: Anomura: Porcellanidae) under laboratory conditions, with notes on the larvae of the genus. *Journal of Crustacean Biology* 24(2): 291-308.

Non-Refereed Articles

Rodríguez, I. T. and P. E. Rosel. 2008. Genetic diversity of bottlenose dolphins (*Tursiops truncatus*) in the Mississippi Sound and adjacent waters. Southeast Fisheries Science Center. PRD Contribution: PRBD-08/09-03: 38 p.

Rodríguez, I. T. 2005. Life history and seasonal abundance of penaeid shrimp larvae in the vicinity of Main Pass Block 299. Prepared for Freeport McMoRan Energy LLC. 20 pp.

Hernández-Orduña, S. e **I. T. Rodríguez-Virgen.** 2000. Evaluación de la sustentabilidad de dos sistemas de producción de trigo en el Valle Morelia-Queréndaro. *Vinculación*. Edición especial de ensayos N° 7, Universidad Michoacana de San Nicolás de Hidalgo. Año 4: 33-41.

Book Chapters

Rodríguez, I. T. 2008. Los cangrejos porcelánidos de México: conocimiento actual y perspectivas de estudio. *In:* G. R. Almaráz and F. Alvarez (eds.) *Crustáceos de México: Estado actual de su conocimiento*. Universidad Autónoma de Nuevo León, Monterrey, Nuevo León, México. ISBN 978-970-694-482-5. 522 p.

CONFERENCE ABSTRACTS AND PRESENTATIONS

Rodríguez, I. T. Genética Molecular en Estudios de Biodiversidad Marina: Cangrejos y Delfines (Molecular Genetics in Marine Biodiversity Studies: Crabs and Dolphins). Semana de la Ciencia. UNAM - Campus Sisal, Yucatán. *Conferencia Magistral*. April, 2011

Rodríguez, I. T. and D. L. Felder. Phylogeny of the porcelain crabs (Anomura: Porcellanidae): morphological and molecular evidence. Sixth International Crustacean Congress, Glasgow, Scotland, UK. *Poster*. July 18-22, 2005

Hernández, G., **I. T. Rodríguez,** J. Bolaños, C. Lira, K. Graterol, and D. L. Felder. Diferencias entre *Petrolisthes magdalenensis* Werding, 1978 y *P. lewisi* (Glassell, 1936) (Crustacea: Decapoda: Porcellanidae). 32nd Scientific Meeting of the Association of Marine Laboratories of the Caribbean, Curaçao. *Poster*. June 13-17, 2005

Rodríguez, I. T. and D. L. Felder. Genética poblacional y filogeografía de *Petrolisthes armatus* (Decapoda: Anomura: Porcellanidae). IV Reunión Nacional Alejandro Villalobos, México, D. F. *Oral presentation*. October 21-22, 2004

Rodríguez, I. T. and D. L. Felder. Cangrejos porcelánidos del Golfo de México y aguas adyacentes: nuevos registros. IV Reunión Nacional Alejandro Villalobos, México, D. F. *Poster*. October 21-22, 2004

Rodríguez, I. T. and D. L. Felder. A phylogenetic survey of Porcellanidae from the Gulf of Mexico and adjacent waters. Annual Summer Meeting of the Crustacean Society, Williamsburg, Virginia, USA. *Oral presentation.* June 1-5, 2003

Rodríguez, I. T. Ecología poblacional de *Procambarus bouvieri* en la presa Caltzontzin, Uruapan, Michoacán. XV Congreso Nacional de Zoología, Tepic, Nayarit, México. *Oral presentation.* November, 1999.

Farfán, A. J., S. Hernández, J. López, and **I. T. Rodríguez.** Caracterización ambiental de la Cuenca del Río Napízaro, municipio de Erongarícuaro, Michoacán, México. VIII Encuentro Universitario de Investigación Científica, Tecnológica y Humanística, Universidad Michoacana de San Nicolás de Hidalgo, Morelia, Michoacán, México. *Oral presentation.* December, 1998

Hernández-Orduña, S., and **I. T. Rodríguez-Virgen.** Evaluación de la sustentabilidad de los sistemas de producción de trigo (*Triticum aestivum*) convencional, en el municipio de Álvaro Obregón y con incorporación previa de janamargo (*Vicia sativa*) en Morelia, durante el ciclo otoño-invierno de 1997-1998, utilizando indicadores de sustentabilidad (MESMIS). VIII Encuentro Universitario de Investigación Científica, Tecnológica y Humanística, Universidad Michoacana de San Nicolás de Hidalgo, Morelia, Michoacán, México. *Oral presentation.* December, 1998

Rodríguez, I. T. Reproducción de la jaiba azul, *Callinectes sapidus*, y la jaiba prieta, *Callinectes rathbunae*, en la Laguna de Sontecomapan, Veracruz. XIII Congreso Nacional de Zoología, Morelia, Michoacán, México. *Oral presentation.* November, 1995

Rodríguez, I. T. Regeneración en planarias. IX Symposium de Biología, UNAM, México, D. F. *Oral presentation.* August, 1983

OTHER ACADEMIC POSITIONS

Advisor

Bachelor's Thesis work of Tania Valdivia Carrillo. Estructura clonal y endogamia en dos poblaciones del pasto marino *Thalassia testudinum* de la laguna arrecifal de Puerto Morelos, Quintana Roo. Universidad Nacional Autónoma de México, Instituto de Ciencias del Mar y Limnología. August 2009 to August 2011

Committee member

Committee member of Bachelor's Thesis defense of Tania Valdivia Carrillo. Universidad Nacional Autónoma de México, Instituto de Ciencias del Mar y Limnología. August 24, 2011

Instructor

Biology 121, "Biological Principles and Issues I". University of Louisiana at Lafayette. Summer 2004 and Summer 2005

Graduate Teacher Assistant

Biology 123, "Biological Principles and Issues I Lab". University of Louisiana at Lafayette. Fall 2003, Spring 2004, Fall 2004

Graduate Teacher Assistant

Invertebrate Collection for the course "Invertebrate Zoology". University of Louisiana at Lafayette. Spring 2005

Graduate Research Assistant

Project: "Characterization of Endemized Assemblages in the Gulf of Mexico" (U.S. Department of Energy). University of Louisiana at Lafayette. August 2000 to July 2003

Graduate Teacher Assistant

Course "Estadística" ("Statistics"). Universidad Michoacana de San Nicolás de Hidalgo. March to August, 1999

OTHER PROFESSIONAL EXPERIENCES**Flight Attendant**

Aeroméxico, México. 1990-1996

Environmental Technician

SEDUE, México. 1990

Typist

Poder Judicial de la Federación. México. 1986-1988

Editor

Editorial Trillas. México. 1986

OTHER GRADUATE COURSES

Molecular Studies of Marine Biodiversity, Harbor Branch Oceanographic Institute, Fort Pierce, Florida, USA. 2001

Técnicas de Muestreo (Sampling Techniques), Universidad Michoacana de San Nicolás de Hidalgo, Morelia, Michoacán, México. 1998

Taller sobre Asociación y Rotación de Cultivos (Workshop on Association and Rotation of Crops), Pátzcuaro, Michoacán, México. 1998

WORKSHOPS

BESTEX ESL Summer Academy at UNT Dallas, where I learned teaching strategies and resources for a multi-cultural education. June 17-21, 2013

Writing Across the Curriculum Professional Development Symposium at UNT Dallas. May 14-15, 2013

"Reunión Internacional sobre el Estado del Conocimiento de los Anfípodos en México" and "Seminario de técnicas de colecta, preservación, disección e identificación de anfípodos." UNAM, México, D. F., México. 1995

VI Curso y Simposio Internacional sobre "Biología de la Contaminación". ENEP Iztacala, UNAM, México, D. F., México. 1990

Curso "Temas de Neuroanatomía Básica". Facultad de Medicina Veterinaria y Zootecnia, UNAM, México, D. F., México. 1985

Curso técnico a nivel bachillerato en "Banco de Sangre". CCH Sur, UNAM, México, D. F., México. 1984

FIELD EXPEDITIONS

Intertidal and near-shore based research and collecting

Seasonal sampling of seagrasses (*Thalassia testudinum*) using SCUBA diving. Reef Lagoon, Puerto Morelos, Quintana Roo, Mexico. August 2009 to July 2011

Wilmington, North Carolina, USA, April 11-13; Veracruz, Tabasco, Campeche, Yucatan, and Quintana Roo, Mexico, July 1-18; Port Isabel, Texas, USA, October 10-11. 2002

Fort Pierce and Florida Keys, Florida, USA, June 7-14; Pacific coast of Nicaragua, November 16-22. 2001

Monthly sampling of crayfishes (*Procambarus bouvieri*) in Caltzontzin Dam, Uruapan, Michoacan, Mexico. September 1998 to August 1999

Monthly sampling of swimming crabs (*Callinectes sapidus* and *C. rathbunae*) in Sontecomapan Estuary, Veracruz, Mexico. November 1994 to September 1995

Ship based research and collecting

Pelican (LUMCON). Offshore Louisiana, USA. Funded by US Department of Energy. June 2001

FELLOWSHIPS AND GRANTS

Postdoctoral Fellowship CONACyT-UNAM. Laboratorio de Botánica Marina, Unidad Académica Puerto Morelos, Instituto de Ciencias del Mar y Limnología, Universidad Nacional Autónoma de México. Mexico. August 2009 – July 2011

Financial Travel Support Grant. Graduate Student Organization, University of Louisiana at Lafayette. IV Reunión Nacional Alejandro Villalobos, México. 2004

Financial Travel Support Grant. Graduate Student Organization, University of Louisiana at Lafayette. Annual Summer Meeting of the Crustacean Society, USA. 2003

Scholarship Assistance. American Genetic Association. Course: Molecular Studies of Marine Biological Diversity, USA. 2001

Graduate Teaching Assistantship. University of Louisiana at Lafayette, USA. 2003-2005

Graduate Research Assistantship. University of Louisiana at Lafayette, USA. 2000-2003

Master in Science Scholarship. Dirección General de Intercambio Académico, Universidad Nacional Autónoma de México, México. 1998-2000

Master in Science Scholarship. Universidad Michoacana de San Nicolás de Hidalgo, México. 1998-2000

Thesis Completion Award. Fundación UNAM, México. 1995-1996

INSTITUTIONAL SERVICE

Spring 2016 Search committee member for Professor of Spanish position
Search committee member for Professor of Public Leadership position
BESTEX Interview Committee at UNT Dallas
Volunteer for S.T.E.A.M. Night at Trinity River Mission
Volunteer for Jaguar Family Day at UNT Dallas

Fall 2015 BESTEX Interview Committee at UNT Dallas

Spring 2015 Search committee member for Lecturer of Chemistry position
BESTEX Interview Committee at UNT Dallas
Volunteer for True Blue at UNT Dallas

Fall 2014 BESTEX Interview Committee at UNT Dallas
Volunteer for Fall True Blue Open House at UNT Dallas

Spring 2014 BESTEX Interview Committee at UNT Dallas

Fall 2012 Volunteer for Las Llaves del Exito (The Keys to Success) at UNT Dallas

EDITORIAL EXPERIENCE

Reviewer for Revista de Biología Tropical. 2006

Reviewer for Journal of the Marine Biological Association of the United Kingdom. 2005

Reviewer for Caribbean Journal of Science. 2004

LANGUAGES

Spanish – native language

English – excellent reading, writing and speaking

OTHER TRAINING

Standard First Aid and CPR-Adult Courses. American Red Cross. March 2009

Certified SCUBA Diver Two Stars. Federación Mexicana de Actividades Subacuáticas, A. C. (FMAS) and Confederación Mundial de Actividades Subacuáticas (CMAS). November 2009

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