

Laura Imelda González Guzmán, curriculum vitae

The University of Texas at Austin
Department of Integrative Biology
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Education

Ph.D. in Biology (emphasis in Ecology) at University of New Mexico, 1998; advisor: James H. Brown. Dates: 1993-1998

B.S. in Biology (with honors) at Universidad Nacional Autónoma de México, ENEP Iztacala, 1992; Dates: 1984-1988

Academic Employment

Lecturer, Texas Institute for Discovery Education in Science (TIDES), University of Texas at Austin, 2013-present

Lecturer, Biology Instructional Office, University of Texas at Austin, 2002-present

Lecturer and Research Fellow, Department of Integrative Biology, University of Texas at Austin, 2002-present

Senior Research Scientist, Department of Ecology & Evolution, State University of New York at Stony Brook, 2001-2002

Postdoctoral Scientist, Department of Ecology, Evolution & Marine Biology, University of California Santa Barbara, 1999-2000

Teaching Assistant, Department of Biology, University of New Mexico, 1997

Research Assistant, Mammal Ecology Lab, Instituto de Ecología UNAM, 1991-1992

Other Professional Experience

Research Associate, Habitat Restoration Department, Protectora e Industrializadora de Bosques, 1989-1990

Publications

Papers in refereed journals

Peña T.S., J. R. Watson, L.I. González-Guzmán, and T.H. Keitt. 2017. Step-wise drops in modularity and the fragmentation of exploited marine metapopulations.

***Landscape Ecology* 32:1643-1656.**

Dawson, M. N., P.H. Barber, L. I. González-Guzmán, R. J. Toonen, J.E. Dugan, and R. K. Grosberg. 2011. Phylogeography of *Emerita analoga* (Crustacea, Decapoda, Hippidae), an eastern Pacific Ocean sand crab with long-lived pelagic larvae.

***Journal of Biogeography* 38:1600-1612.**

- Parmesan, C., S. Gaines, L.I. González-Guzmán, D. M. Kaufman, J. Kingsolver, T. A. Peterson, and R. Sagarin. 2005. Empirical perspectives on species borders: environmental change as challenge and opportunity. *Oikos* 108:58-75
- González-Guzmán, L.I. and D.W. Mehlman. 2001. Developmental stability across the breeding distribution of the Scissor-tailed Flycatcher (*Tyrannus forficatus*). *Ecology Letters* 4:444-452.
- Böhning-Gaese, K., L.I. González-Guzmán, and J. H. Brown. 1998. Constraints in dispersal and the evolution of the Northern Hemisphere avifauna. *Evolutionary Ecology* 12:767-783.

Chapters in edited volumes

- Ferrusquía-Villafranca, I., L. I. González-Guzmán, and J-L. E. Cartron. 2005. Northern Mexico's landscape, part 1: the physical setting and constraints in modeling biotic evolution. In: J-L. E. Cartron, G. Ceballos, and R. Felger, eds. **Biodiversity, ecosystems and conservation in northern Mexico**. Oxford University Press, Oxford.
- Ferrusquía-Villafranca, I. and L. I. González-Guzmán. 2005. Northern Mexico's landscape, part 2: the biotic setting across space and time. In: J-L. E. Cartron, G. Ceballos, and R. Felger, eds. **Biodiversity, ecosystems and conservation in northern Mexico**. Oxford University Press.

Submitted Papers

- Peña, T.S., J. Watson, L. I. González-Guzmán, and T. H. Keitt. Spatial fragmentation of exploited marine metapopulations revealed by network modularity. Submitted to *Landscape Ecology*

Papers in preparation

- González-Guzmán, L.I., J.E. Dugan, T.H. Keitt, and S.D. Gaines. Evaluating a niche-based model of species ranges. In preparation for ***Global Ecology and Biogeography***
- González-Guzmán, L.I., J.E. Dugan, and S.D. Gaines. Spatial variation in abundance across the range of the sand crab *Emerita analoga*. In preparation for ***Marine Ecology Progress Series***.

Awards and Honors

- 1996 Marcia Brady Tucker travel award to present paper at the American Ornithologists' Union Meetings. 1996.
- 1993 Consejo Nacional de Ciencia y Tecnología (CONACyT) five-year fellowship to complete graduate studies at University of New Mexico. \$900.00 monthly stipend; \$5,000.00/semester tuition waiver.
- 1987 Diploma for outstanding achievement in GPA standings, B.S. in Biology, Universidad Nacional Autónoma de México.

Grants

NSF Grant (BE/CNH project: F. Micheli, principal investigator, González is one of 4 co-principal investigators) \$1,616,474. 2004-08. "Linking human and biophysical processes in coastal marine ecosystems of Baja California".

NSF Grant (BE/CNH planning grant: F. Micheli, principal investigator, González is one of 4 co-principal investigators) \$100,000. 2002-2003. "Linking human socioeconomic and marine ecosystem dynamics along the Pacific coast of Baja California, Mexico".

NSF INT U.S.-Mexico planning Grant. \$8,360. 2001. "Linking human socioeconomic systems with marine ecosystem functioning along the Pacific coast of Baja California, Mexico".

UC Mexus Grant (S. D. Gaines, principal investigator, González is one of 4 co-authors). \$5000. 2000. Environmental suitability across geographic ranges of marine intertidal invertebrates.

Lincoln Park Zoo Neotropical Fund Grant. \$5,000. 1996. An individual species approach to the conservation and management of resident and neotropical migrant birds in western Mexico.

Invited Talks

Algae and their uses, Departamento de Botanica, Universidad de Sevilla, Seville, Spain (2011)

Environmental suitability across species geographic ranges, Section of Integrative Biology, University of Texas, Austin (2002)

Local variation in abundance, II Neotropical Ornithology Course, Instituto de Ecología, A. C., Xalapa, Veracruz (1998)

Spatial variation in abundance, I Neotropical Ornithology Course, Instituto de Ecología, A. C., Xalapa, Veracruz (1996)

Conference Presentations

Pena-Baca, T.S., L.I. Gonzalez-Guzman, J.R. Watson and T.H. Keitt. Network modularity reveals spatial structure and fragmentation of exploited marine metapopulations. International Association for Landscape Ecology World Congress, Portland, OR (2015)

Gonzalez-Guzman L.I., P.H. Barber, S.D. Gaines and J.E. Dugan. Genetic patchiness in *Emerita analoga* along the Pacific coast of North America. Ecological Society of America, Montreal (2005)

Micheli, F, C. Costello, L Gonzalez, S, Lluich, B. McCay, and J. Wilson. Linking human and biophysical processes in coastal marine ecosystems of Baja California. National Science Foundation BE/CNH conference, Washington D.C. (2005)

Micheli, F, C. Costello, L Gonzalez, S, Lluch, B. McCay, and J. Wilson. Linking human and biophysical processes in coastal marine ecosystems of Baja California. Society for Conservation Biology, New York (2004)

Gonzalez-Guzman, L.I., S.D. Gaines, and J. E. Dugan. Fluctuating asymmetry across the geographic distribution of *Emerita analoga*. Western Society of Naturalists, Ventura (2001)

Gonzalez-Guzman, L.I., S.D. Gaines and J.E. Dugan. Environmental suitability across the geographic distribution of *Emerita analoga*. Ecological Society of America, Madison (2001)

Gonzalez-Guzman, L.I. Does migratory behavior have an effect on the ecology of birds? Neotropical Ornithology Congress, Monterrey, Nuevo León (1999)

Gonzalez-Guzman, L.I. Ecology of long distance migrants in the Neotropics. Ecological Society of America, Spokane (1999)

Gonzalez-Guzman, L.I. Ecological correlates of long-distance migratory behavior. Ecological Society of America, Albuquerque (1997)

Gonzalez-Guzman, L.I. Fluctuating asymmetry across the breeding distribution of the Scissor-tailed Flycatcher. American Ornithologists' Union, Boise, Idaho (1996)

Gonzalez-Guzman, L.I. Ecological correlates of migratory birds. Society for Conservation Biology, Guadalajara, Jalisco (1995)

Gonzalez-Guzman, L.I. Las aves del Estado de México: situación actual y perspectivas. Congreso Nacional de Zoología, Mérida, Yucatán (1992)

Campus or Departmental Talks

Section of Integrative Biology, University of Texas, Austin (2014)

Courses Taught

University of Texas at Austin

Ecology and Diversity (2003, 2004)

Introductory Biology II (2004, 2005, 2016)

Ecology (2006, 2007, 2008, 2009, 2010, 2013, 2014, 2015, 2016)

Dean's Scholar Seminar: Topics in Ecology (2005, 2006)

Scientific Inquiry Across Disciplines (2013, 2014, 2015, 2016)

State University of New York- Stony Brook

Ecology Lab (2002)

University of New Mexico

Teaching Assistant for General Biology (1997)

Graduate Students

Ph.D dissertations. Primary advisor

Tania S. Peña-Baca (co-advised with Dr. Tim Keitt), Effects of local extinctions and fisheries exploitation in the persistence and connectivity of marine populations (2014)

Ph.D dissertations. Committee member

Catalina Cuellar Gempeler, Habitat filtering at multiple scales: a case study with crab-associated microbial communities (2016)

Masters thesis. Primary advisor

Courtney Abshire, (co-advised with Dr. Tim Keitt) Environmental correlates of local abundance in the benthic snail *Megastrea undosa* (2010)

Undergraduate students

Honors thesis. Primary advisor

Hanh Nguyen, Bird composition as an ecological indicator of forest disturbance levels (2007)

Jeff Scott, Wild vs. farmed: the implications of growth in US Aquaculture (2008)

Scientific Supervisor

Huy Ly (2008, 2009)

Anisa Webb (2008)

Courtney Abshire (2006)

Service to the Profession

Reviewer for *Journal of Biosciences*, *FONDECYT*, *Ecography*, *Ecohealth*, *Marine Ecology Progress Series*

Service to the Department and University

The University of Texas at Austin

Presenter UTeach Outreach UT PREP STEM, Summer 2017

Member of the Faculty Council, 2016-2017

Member of the Quantitative Reasoning Flag Committee, 2016-2017

Peer evaluator of instruction for TIDES and the Integrative Biology Department, 2016

Liason for non-tenure track faculty at Integrative Biology Department, 2015-present

Co-organizer of the Core Competencies for Intro Bio courses Committee, 2015-present

Writer of numerous letters of recommendation for undergraduate students, 2012-present

Participant in Commencement Ceremonies, 2015

Participant in Integrative Biology Departmental External Review, 2015

Judge for Undergraduate Research Forum, 2014, 2015

Organizer College of Natural Sciences Family Day, 2014

Presenter at Honors Colloquium, 2014

Advisor High School Summer Student Program, 2013

Mentor to Freshmen Minority Students, 2003-2004

University of California Santa Barbara

Kids do Ecology Program (Scientific Advisor for 5th grade students), 1999

Science Program for Best High School Students in Nation (Scientific Advisor), 1999

The University of New Mexico

Student representative, Association of Graduate Students, 1996

Student Representative, Faculty Search Committee, 1995

Student Research Allocation Committee 1993-1995

Service Outside the University

Science Fair Liason, Mathews Elementary, 2013-2016

Tutor for minority high school student, 2013-2014

Tutor for minority middle school student, 2014

Judge at Austin Regional Science Fair, 2012

Lesson development for 5th grade AISD Elementary Teachers, 2006

Professional Advancement

Faculty Writing Retreat: How to teach writing, 2016

TIDES seminar series on best practices for teaching, 2015, 2016

Plagiarism and Ethics workshop, 2015

Seminar on Undergraduate Teaching, 2014

Course on "What the best teachers do", 2013

Course on "How learning works", 2012

UT Summer Statistics Institute courses, 2009

Workshop on Teaching large classes using case studies, 2006

Professional Affiliations

Ecological Society of America

Languages

Spanish: proficient reading, speaking and writing ability

Computer Languages: R, Matlab

References

Dr. Jenny Dugan

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Dr. Christine Hawkes

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