**CURRICULUM VITAE**

**LUIS A. HURTADO-CLAVIJO** 2 January 2017

Department of Wildlife and Fisheries Sciences

Texas A&M University (TAMU)

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Date of Appointment as Associate Professor: September 2015

# EDUCATION

1997-02 Ph.D., Ecology and Evolution, Rutgers University, NJ

1994-96 M.Sc., Conservation, Ecology and Management of Natural Resources, Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Guaymas, México

1986-92 B.Sc., Biology, Universidad Nacional de Colombia, Bogotá, Colombia

# CURRENT POSITION

2015F-P Associate Professor, Department of Wildlife and Fisheries Sciences, Texas A&M University

2008-P Faculty Marine Biology IDP

2006-P Faculty Ecology and Evolutionary Biology IDP

2007-P Faculty Genetics IDP

2008-P Faculty Applied Biodiversity Science (ABS) NSF-IGERT Program

# JOB EXPECTATION

Research

Develop a competitive and extramurally funded research program in the area of conservation genetics, population genetics, molecular systematics, phylogeography, genomics, and evolution. Advise graduate student research.

Teaching

Teaching one course per semester: undergraduate Molecular Ecology in Wildlife and Fisheries (WFSC 433); writing section of undergraduate Wildlife and Fisheries Conservation (WFSC 304W); and graduate Conservation Genetics (WFSC 633/ GENE 633). Advise undergraduate students conducting independent research projects.

Service

Serve on departmental, college, and university committees as requested. Serve as a manuscript reviewer for scientific journals,and as proposal reviewer or panelist for grant agencies. Contribute to enhancing diversity in my institution and my scientific discipline.

Participation in Interdisciplinary Programs (via Research, Teaching, and/or Service):

-Marine Biology Interdisciplinary Degree Program (Faculty)

-Genetics Interdisciplinary Degree Program (Faculty)

-Ecology and Evolutionary Biology Interdisciplinary Research Program (Core Faculty)

-Applied Biodiversity Science (ABS) NSF-IGERT Program (Faculty Participant)

# PAST POSITIONS AND EXPERIENCE

2008-15 Assistant Professor, Department of Wildlife and Fisheries Sciences, Texas A&M University

2006-08 Research Assistant Professor, Department of Wildlife and Fisheries Sciences, Texas A&M University

2005-06 Research Assistant Professor, Department of Biological Sciences, University of Texas at El Paso

2002-05 Postdoctoral Associate, Arizona Research Labs/ Department of Ecology and Evolutionary Biology, University of Arizona

# AWARDS

1996 Award from the Mexican Government Environmental Agency ‘Procuraduría Federal de Protección al Medio Ambiente del Gobierno de México (PROFEPA)’ for research on massive mortality of dolphins occurred in 1995 in the Gulf of California

# SCIENTIFIC SOCIETIES

Society for the Study of Evolution

# RESEARCH

*Research Program Graphic Summary*



# PUBLICATIONS

**Publications and Scholarly Work**

|  |  |
| --- | --- |
| **Type** | **Career** |
| Refereed/Peer-Reviewed | 34 |
| Refereed/Editor-reviewed | 3 |
| Book Chapters | 2 |

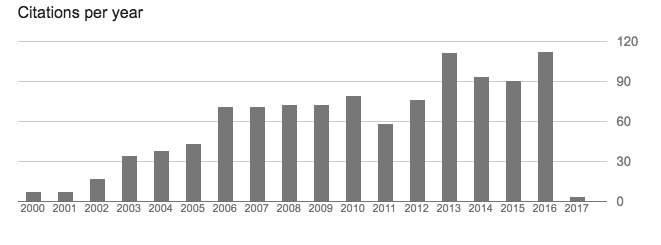
*Statistics*

(ISI1) (All Google Scholar2) (Since 20122)

* Number of times cited: 646 1070 485
* Average cites per paper: 20.84
* H-index: 15 15 13
* i10-Index 23 16

1http://www.researcherid.com/rid/B-5953-2008

2http://scholar.google.com/citations?user=8BznlXAAAAAJ



from Google Scholar

**Refereed publications**

*My last name underlined when I am the lead author; meaning that I assumed overall responsibility for the manuscript, including leading the writing of the paper, sending the paper to coauthors, addressing their comments, serving as corresponding author, dealing with reviewers comments and editorial corrections, supervising all aspects of the research, providing significant contribution to the research effort, being responsible for the integrity of the work as a whole, and ensuring that reasonable care and effort was taken to determine that all the data were accurate, complete, and reasonably interpreted. As a lead author my name is generally listed as first or last, unless otherwise noted (e.g. if another coauthor and I contributed equally, and both are lead authors, then I may be listed second). In relation to the co-authorship order for graduate students in work from their Dissertations and Theses, they are listed first if they contributed significantly to the preparation of the manuscript (in which case, I am listed last), and second if I did all the writing (in which case, I am listed first).*

[*C = corresponding author*; *\* = graduate student in my lab;* \*\* = *undergraduate student working in my lab;* + *= graduate student in another lab*; *Times Cited per Google Scholar on 1/2/17 is indicated for each publication with citation records*]

34. **Hurtado LA***C*, Mateos M, Liu S\*. 2016. Phylogeographic patterns of a lower intertidal isopod in the Gulf of California and the Caribbean and comparison with other intertidal isopods. ***Ecology and Evolution*** 00: 1–12. doi: 10.1002/ece3.2599(In Press)

33. **Hurtado LA***C*, Mateos M, Mattos G+, Liu S\*, Haye PA, Paiva PC. 2016. Multiple transisthmian divergences, extensive cryptic diversity, occasional long-distance dispersal, and biogeographic patterns in a marine coastal isopod with an amphi-American distribution. ***Ecology and Evolution*** 6: 7794–7808. doi:[10.1002/ece3.2397](http://dx.doi.org/10.1002/ece3.2397" \o "Link to external resource: 10.1002/ece3.2397" \t "_blank)

32. **Hurtado LA***C*, De La Rosa-Reyna X\*, Mateos M, Shaver DJ, Metz R, Thiltges J, Hill J, Reyes-Lopez MA, Johnson C. 2016. Thousands of SNPs in the critically endangered Kemp’s Ridley sea turtle (*Lepidochelys kempii*) revealed by ddRAD-seq: opportunities for previously elusive conservation genetics research. ***Gulf of Mexico Science*** 33 (2)

31. Baringou S+, Rouault JD, Koken M, Hardivillier Y, **Hurtado L**, Leignel V. 2016. Diversity of cytosolic HSP70 Heat shock protein from decapods and their phylogenetic placement within Arthropoda. ***Gene*** 591 (1): 97-107. DOI: 10.1016/j.gene.2016.06.061

30. Santamaria CA \*, Mateos M, DeWitt TJ, **Hurtado LA***C*. 2016. Constrained body shape among highly genetically divergent allopatric lineages of the supralittoral isopod *Ligia occidentalis* (Oniscidea). ***Ecology and Evolution*** 6: 1537-1554. DOI: 10.1002/ece3.1984

29. Smolensky N*C+*, **Hurtado LA**, Fitzgerald LA. 2015. DNA barcoding of Cameroon samples enhances our knowledge on the distributional limits of putative species of *Osteolaemus* (African dwarf crocodiles). ***Conservation Genetics*** 16 (1): 235-240. DOI: 10.1007/s10592-014-0639-3 (Times cited = 3)

28. García-Hernández J*C*, **Hurtado LA**, Leyva-García G, Güido-Moreno A, Aguilera-Márquez D, Mazzei V, Ferrante M. 2015. Isopods of the genus *Ligia* as potential biomonitors of trace metals from the gulf of California and pacific coast of the Baja California peninsula. ***Ecotoxicology and Environmental Safety*** 112: 177–185. http://dx.doi.org/10.1016/j.ecoenv.2014.11.002 (Times cited = 2)

27. Santamaria CA\*, Mateos M*C*, **Hurtado LA***C*. 2014. Diversification at the narrow sea-land interface in the Caribbean: phylogeography of endemic supralittoral *Ligia* isopods. ***Frontiers in Ecology and Evolution*** 2:42.DOI: 10.3389/fevo.2014.00042 (Open Access)

26. **Hurtado LA***C***,** Santamaria CA\*, Fitzgerald LA. 2014. The phylogenetic position of the Critically Endangered Saint Croix ground lizard *Ameiva polops*: revisiting molecular systematics of West Indian *Ameiva*. ***Zootaxa*** 3794 (2): 254–262. DOI: http://dx.doi.org/10.11646/zootaxa.3794.2.4 (Open Access)

25. **Hurtado LA***C*, Lee EJ\*, Mateos M, Taiti S. 2014. Global diversification at the harsh sea-land interface: Mitochondrial phylogeny of the supralittoral isopod genus *Tylos* (Tylidae, Oniscidea). ***PLoS ONE*** 9(4): e94081. DOI: 10.1371/journal.pone.0094081 http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0094081 (Times cited = 1)

24. Santamaria CA\*, Mateos M, Taiti S, DeWitt TJ, **Hurtado LA***C*. 2013. A complex evolutionary history in a remote archipelago: phylogeography and morphometrics of the Hawaiian endemic *Ligia* isopods. ***PLoS ONE*** 8(12): e85199. DOI:10.1371/journal.pone.0085199 http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0085199 (Times cited = 5)

23. Liu S\*, Sun J, **Hurtado LA***C*. 2013. Genetic differentiation of *Portunus trituberculatus*, the world’s largest crab fishery, among its three main fishing areas. ***Fisheries Research*** 148: 38-46. DOI: 10.1016/j.fishres.2013.08.003 http://www.sciencedirect.com/science/article/pii/S0165783613001847

22. Eberl R*C+*, Mateos M, Grosberg RK, Santamaria CA\*, **Hurtado LA***C*. 2013. Phylogeography of the supralittoral isopod *Ligia occidentalis* around the Point Conception marine biogeographic boundary. ***Journal of Biogeography*** 40: 2361-2372. DOI: 10.1111/jbi.12168 http://onlinelibrary.wiley.com/doi/10.1111/jbi.12168/abstract (Times cited = 12)

21. **Hurtado LA***C*, Carrera E\*, Adite A, Winemiller K. 2013. Genetic differentiation of a primitive teleost, the African bonytongue (*Heterotis niloticus*), among river basins and within a floodplain river system in Benin, West Africa. ***Journal of Fish Biology*** 83: 682-690. DOI: 10.1111/jfb.12198 http://onlinelibrary.wiley.com/doi/10.1111/jfb.12198/abstract (Times cited = 2)

20. **Hurtado LA***C*, Lee EJ\*, Mateos M. 2013. Contrasting phylogeography of sandy vs. rocky supralittoral isopods in the megadiverse and geologically dynamic Gulf of California and adjacent areas. ***PLoS ONE*** 8(7): e67827.DOI: 10.1371/journal.pone.0067827 http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0067827 (Times cited = 9)

19. Mateos M†*C*, **Hurtado LA**†*C*, Santamaria CA\*, Leignel V., Guinot D. 2012. Molecular systematics of the deep-sea hydrothermal vent endemic brachyuran family Bythograeidae: a comparison of three Bayesian Species tree methods. ***PLoS ONE*** 7(3): e32066. DOI:10.1371/journal.pone. 0032066. † = Contributed equally to this work. http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0032066 (Times cited = 7)

18. **Hurtado LA***C*, Santamaria CA\*, Fitzgerald LA. 2012. Conservation genetics of the Critically Endangered Saint Croix ground lizard (*Ameiva polops* Cope 1863). ***Conservation Genetics*** 13 (2): 665-679. DOI: 10.1007/s10592-012-0316-3. http://link.springer.com/article/10.1007/s10592-012-0316-3 (Times cited = 6)

17. Kelley SW, Ransom D *C*, Butcher JA, Schulz GG, Surber BW, Pinchak WE, Santamaria CA\*, **Hurtado LA**. 2011. Home range dynamics, habitat selection, and survival of Greater Roadrunners. ***Journal of Field Ornithology*** 82 (2): 165-174. DOI: 10.1111/j.1557-9263.2011.00319.x. http://onlinelibrary.wiley.com/doi/10.1111/j.1557-9263.2011.00319.x/abstract (Times cited = 9)

16. **Hurtado LA***C***,** Mateos M, Santamaria CA\*. 2010. Phylogeography of supralittoral rocky intertidal *Ligia* isopods in the Pacific region from Central California to Central Mexico. ***PLoS ONE*** 5(7): e11633. DOI:10.1371/journal.pone.0011633. http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0011633 (Times cited = 38).

15. Santamaria CA\*, Kelley S, Schulz GG, Ransom D, **Hurtado LA***C*. 2010. Polymerase Chain Reaction-Based sex identification in the Greater Roadrunner. ***Journal of Wildlife Management*** 74 (6): 1395-1399. DOI: 10.1111/j.1937-2817.2010.tb01263.x. http://onlinelibrary.wiley.com/doi/10.1111/j.1937-2817.2010.tb01263.x/abstract (Times cited = 10)

14. **Hurtado LA,** Frey M, Gaube P, Pfeiler E, Markow TA*C*. 2007. Geographical subdivision, demographic history and gene flow in two sympatric species of intertidal snails, *Nerita scabricosta* and *N. funiculata*, from the tropical eastern Pacific. ***Marine Biology*** 151: 1863-1873. http://link.springer.com/article/10.1007/s00227-007-0620-5 (Times cited = 20)

13. Pfeiler E, Erez T, **Hurtado LA**, Markow TA*C*. 2007. Genetic differentiation and demographic history in *Drosophila pachea* from the Sonoran Desert. ***Hereditas***144: 63-74. http://onlinelibrary.wiley.com/doi/10.1111/j.2007.0018-0661.01997.x/full (Times cited = 12)

12. Pfeiler E*C*, **Hurtado LA**, Knowles LL, Torre-Cosío J, Bourillón-Moreno L, Márquez-Farías JF, Montemayor-López G. 2005. Population genetics of the swimming crab *Callinectes bellicosus*. (Brachyura: Portunidae) from the eastern Pacific Ocean. ***Marine Biology*** 146: 559-569. http://link.springer.com/article/10.1007/s00227-004-1463-y (Times cited = 47).

# 11. Hurtado LAC, Lutz RA, Vrijenhoek RC. 2004. Distinct patterns of genetic differentiation among annelids of eastern Pacific hydrothermal vents. Molecular Ecology 13 (9) 2603-2615. http://onlinelibrary.wiley.com/doi/10.1111/j.1365-294X.2004.02287.x/full (Times cited = 94)

10. **Hurtado LA***C*, Erez T, Castrezana S, Markow TA. 2004. Contrasting population genetic patterns and evolutionary histories among sympatric Sonoran Desert cactophilic *Drosophila*. ***Molecular Ecology*** 13 (6) 1365-1375. http://onlinelibrary.wiley.com/doi/10.1111/j.1365-294X.2004.02169.x/full (Times cited = 50)

9. Goffredi SK*C*, Fulton-Bennett K, **Hurtado LA**, Paull C, and Vrijenhoek RC. 2004. Unusual benthic fauna associated with a whale fall in Monterey Canyon, California. ***Deep-Sea Research Part I***51 (10) 1295-1306. http://www.sciencedirect.com/science/article/pii/S0967063704000913 (Times cited = 69)

8. **Hurtado LA***C*, Mateos M, Lutz RA, and Vrijenhoek RC. 2003. Coupling of bacterial endosymbiont and mitochondrial genes in the hydrothermal vent clam *Calyptogena magnifica*. ***Applied and Environmental Microbiology*** 69: 2058–2064. **Recommended by Faculty of 1000** http://aem.asm.org/content/69/4/2058.full (Times cited = 64)

7. Guinot D*C*, **Hurtado LA.** 2003. Two new species of hydrothermal vent crabs of the genus *Bythograea* from thesouthern East Pacific Rise and from the Galapagos Rift (Crustacea Decapoda Brachyura Bythograeidae). ***Comptes Rendus Biologies*** 326: 423–439. http://www.sciencedirect.com/science/article/pii/S1631069103001264 (Times cited = 28)

6. Goffredi SK*C*, **Hurtado LA**, Hallam S, Vrijenhoek RC. 2003. Evolutionary relationships of deep-sea vent and cold seep clams (Mollusca: Vesicomyidae) of the “*pacifica-lepta*” species complex. ***Marine Biology*** 142: 311–320. http://link.springer.com/article/10.1007/s00227-002-0941-3 (Times cited = 79)

5. **Hurtado LA***C*, Mateos M, Lutz RA, Vrijenhoek RC. 2002. Molecular evidence for multiple species of *Oasisia* (Annelida: Siboglinidae) at eastern Pacific hydrothermal vents. ***Cahiers de Biologie Marine*** 43 (3–4): 377–380. (Times cited = 17)

4. Guinot D*C*, **Hurtado LA**, Vrijenhoek RC. 2002. New genus and new species of brachyuran crab from the southern East Pacific Rise (Crustacea Decapoda Brachyura Bythograeidae). ***Comptes Rendus Biologies*** 325 (11): 1143–1152. http://decapoda.nhm.org/pdfs/10591/10591.pdf (Times cited = 16)

3. Van Dover CL*C*, Humphris SE, Fornari D, Cavanaugh CM, Collier R, Goffredi SK, Hashimoto J, Lilley CM, Reysenbach AL, Shank TM, Von Damm KL, Banta A, Gallant RM, Götz D, Green D, Hall J, Harmer TL, **Hurtado LA**, Johnson P, McKiness ZP, Meredith C, Olson E, Pan IL, Turnipseed M, Won Y, Young III CR, Vrijenhoek RC. 2001. Biogeography and ecological setting of Indian Ocean hydrothermal vents. ***Science*** 294: 818–823. http://www.sciencemag.org/content/294/5543/818.short (Times cited = 202)

2. **Hurtado L**, Mateos M, Castrezana S, Tello MK, McLauren D, Campoy J, Markow TA*C*. 1997. Developmental instability and environmental stress in natural populations of *Drosophila pachea*. ***Ecotoxicology*** 6: 233–238. http://link.springer.com/article/10.1023/A:1018678827931 (Times cited = 19)

1. Vidal O*C*, Barlow J, **Hurtado LA**, Torre J, Cendón P, Ojeda Z. 1997. Distribution and abundance of the bufeo colorado (*Inia* *geoffrensis*) and the tucuxi (*Sotalia fluviatilis*) in the Upper Amazon River. ***Marine Mammal Science*** 13(3): 427–445. http://onlinelibrary.wiley.com/doi/10.1111/j.1748-7692.1997.tb00650.x/abstract (Times cited = 64)

**Editor-reviewed journal articles**

3. MacDonald MD+, Santamaria CA\*, Flemming J\*\*, Honda JY, **Hurtado LA***C*. 2013. Isolation and characterization of microsatellite DNA markers in the Greater Roadrunner (*Geococcyx californianus*). ***Conservation Genetics Resources*** 5 (2): 319-322. DOI 10.1007/s12686-012-9793-4. http://link.springer.com/article/10.1007/s12686-012-9793-4

2. Santamaria CA\*, Fitzgerald LA, **Hurtado LA***C***.** 2011. Isolation and characterization of microsatellite DNA markers in the critically endangered St. Croix ground lizard *Ameiva polops*. ***Conservation Genetics Resources*** 3 (4): 641-643. DOI: 10.1007/s12686-011-9423-6. http://link.springer.com/article/10.1007/s12686-011-9423-6 (Times cited = 2)

1. Carrera E\*, Renshaw MA, Winemiller KO, **Hurtado LA***C*. 2011. Isolation and characterization of nuclear-encoded microsatellite DNA primers for the African bonytongue, *Heterotis niloticus*. ***Conservation Genetics Resources*** 3 (3): 537-539. DOI: 10.1007/s12686-011-9398-3. http://link.springer.com/article/10.1007/s12686-011-9398-3 (Times cited = 2)

**Book Chapters (Editor reviewed)**

[These two chapters are part of the Handbook of Deep-Sea Hydrothermal Vent Fauna, in which 86 authors contributed with their expertise to create a comprehensive database on animals living at hydrothermal vents]

Guinot D, **Hurtado L**, Vrijenhoek RC. 2006. *Allograea tomentosa*, In: Desbruyères, D., Segonzac, M., Bright, M. (Eds.), Handbook of Deep-Sea Hydrothermal Vent Fauna, 2nd. ed. ***Denisia*** 18, Biologiezentrum, Linz, p. 459.

Guinot D, **Hurtado L**. 2006. *Bythograea galapagensis*, In: Desbruyères, D., Segonzac, M., Bright, M. (Eds.), Handbook of Deep-Sea Hydrothermal Vent Fauna, 2nd. ed. ***Denisia*** 18, Biologiezentrum, Linz, p. 465.

**Manuscripts pending revision to peer-reviewed journals**

Munguia-Vega A*C*, Soria G, Marinone S, Torre J, Pfister T, **Hurtado LA**, Sagarin R, Cudney-Bueno R, Turk-Boyer P, Castillo-Lopez A, Shaw W. Ocean flow asymmetry shape larval dispersal in two contrasting marine invertebrates. ***Molecular Ecology***.

**Manuscripts in preparation**

**Hurtado LA*C***, Mateos M, Wang C\*, Santamaria CA\*, Jung J, Khalaji-Pirbalouty V, Kim W.

Out of Asia: Evolutionary history of the invasive supralittoral isopod *Ligia exotica*

**Technical Reports**

Hurtado LA. 2009. Population Genetics of the Endangered Lizard *Ameiva polops*. Presented to Division of Fish and Wildlife, Department of Planning and Natural Resources, Government of the Virgin Islands of the United States.

**Dissertation and Theses**

PhD Dissertation: Hurtado LA. 2002. Biogeography and evolution of hydrothermal vent organisms in the Eastern Pacific Ocean. Rutgers the State University of New Jersey. 140pp. (Advisor: Robert C. Vrijenhoek) (Times cited = 9)

MSc Thesis: Hurtado LA. 1996. Distribution, habitat use, movements, and social organization of the bufeo colorado Inia geoffrensis (Cetacea: Iniidae) in the upper Amazon River. Instituto Tecnológico y de Estudios Superiores de Monterey-Campus Guaymas. (Advisor: Omar Vidal). (Times cited = 8)

BSc Thesis: Hurtado LA. and Ojeda Z. 1992. Biological aspects of humpback whales (Borowski 1781) during their reproductive cycle in the Gorgona Island National Park, Colombian Pacific: Observations during July-November 1991. Universidad Nacional de Colombia. (Advisors: Germán Galvis and Lilián Flores-González)

**Dissertation and MSc Theses completed by my students**

MSc Thesis: Wei C. 2016. Out of Asia: Evolutionary history of the invasive supralittoral isopod Ligia exotica.

PhD Dissertation: Santamaria CA. 2013. Evolution of *Ligia* isopods in three geologically dynamic regions.

MSc Thesis: Liu S. 2013. Phylogeographic patterns of the intertidal isopods Excirolana braziliensis and Excirolana mayana (Isopoda: Cirolanidae).

MSc Thesis: Lee EJ. 2012. Phylogeographic patterns of Tylos (Isopoda: Oniscidea) in the Pacific region between southern California and central Mexico, and mitochondrial phylogeny of the genus.

MSc Thesis: Carrera E. 2012. Regional and local-scale population genetic structure of a primitive teleost, the African bonytongue (Heterotis niloticus), in rivers of West Africa.

# RESEARCH GRANTS AND CONTRACTS

*Extramural Federal*

2008-15 **National Science Foundation**, Population and Evolutionary Processes Program. “Phylogeography of non-vagile coastal isopods and the controversial history of the megadiverse Gulf of California-Baja peninsula region”. Role: PI (Co-PI M. Mateos, TAMU-WFSC). Total amount awarded: **US$570,000**. This proposal was reviewed with 301 other proposals in a program that had a 12.5% funding rate.

2009-14 **National Science Foundation**, Population and Evolutionary Processes Program. Research Experience for Undergraduates Supplemental Grant. Role: PI, wrote proposals (Co-PI M. Mateos, TAMU-WFSC). Total amount awarded: **$43,500.**

*Extramural State*

2016-18 **NOAA-Texas Sea Grant** “Conservation genomics of the Critically Endangered Kemp’s Ridley sea turtle (*Lepidochelys kempii*)”. Role: PI (co-PI: Mariana Mateos)”. Total amount awarded: **$200,000**. For this program were submitted 82 pre-proposals and 32 full proposals; and 8 were funded.

2014-17 **NOAA-Texas Sea Grant** “Assessment of Population Genetic Differentiation of the Blue Crab (*Callinectes sapidus*) in the Gulf of Mexico using Next Generation Sequencing Technologies”. Role: PI (Co-PI M. Mateos, TAMU-WFSC). Total amount awarded: **$292,874**. This program selected for funding six proposals out of 96.

*Internal Competitive (International Collaboration)*

2015 **TAMU-CONACyT**. “Development of high throughput DNA sequencing genomic tools for conservation genomics of the Critically Endangered Kemp's Ridley sea turtle (*Lepidochelys kempii*): A binational genomic monitoring effort for nesting populations in Tamaulipas and Texas”. Role: PI, wrote proposal (Co-PI Miguel Reyes-López). Total amount awarded: **$24,000**.

2013 **TAMU-CONACyT**. “Next-Generation genomic tools for management and conservation of wild and domestic stocks of the channel catfish *Ictalurus punctatus*, an important aquaculture species in Southern US and Northeast Mexico”. Role: PI, wrote proposal (Co-PI Gaspar Parra-Bracamonte). Total amount awarded: **$24,000**.

2009 **TAMU-CONACyT**. Development of molecular markers to assess population genetic differentiation and conduct QTL studies in the blue crab *Callinectes sapidus*, an important commercial fishery in Mexico and the US. Role: PI, wrote proposal (Co-PI Fernando Alvarez UNAM). Total amount awarded: **US$24,000**.

2009 **TAMU-CONACyT**. Biomarkers and bioassays to examine the health of highly genetically differentiated populations of the coastal isopod *Ligia* *occidentalis* endemic to Mexico and US rocky intertidal Pacific shores. Role: PI (Co-PI Jaqueline Garcia CIAD). Total amount awarded: **US$24,000**.

*Other Internal Awards*

2016 College of Agriculture Yucatán Initiative. **$15,000** (with Lee Fitzgerald and Mariana Mateos)

2016 **TAMU Libraries Open Access to Knowledge (OAK) Fund**. Fees for publication‘Phylogeographic patterns of a lower intertidal isopod in the Gulf of California and the Caribbean and comparison with other intertidal isopods’ in *Ecology and Evolution.* Total amount awarded: **$1,755** (with Mariana Mateos).

2016 **TAMU Libraries Open Access to Knowledge (OAK) Fund**. Fees for publication‘Multiple transisthmian divergences, extensive cryptic diversity, occasional long-distance dispersal, and biogeographic patterns in a marine coastal isopod with an amphi-American distribution’ in *Ecology and Evolution.* Total amount awarded: **$1,755** (with Mariana Mateos).

2016 **TAMU Libraries Open Access to Knowledge (OAK) Fund**. Fees for publication‘Constrained body shape among highly genetically divergent allopatric lineages of the supralittoral isopod *Ligia occidentalis* (Oniscidea)’ in *Ecology and Evolution.* Total amount awarded: **$1,755** (with Mariana Mateos and Thomas DeWitt).

2013 **TAMU Libraries Open Access to Knowledge (OAK) Fund**. Fees for publication‘A complex evolutionary history in a remote archipelago: phylogeography and morphometrics of the Hawaiian endemic *Ligia* isopods’ in *PLoS ONE*. Total amount awarded: **$1,350**.

2014 **TAMU Libraries Open Access to Knowledge (OAK) Fund**. Fees for publication‘Global diversification at the harsh sea-land interface: Mitochondrial phylogeny of the supralittoral isopod genus *Tylos* (Tylidae, Oniscidea)’ in *PLoS ONE*. Total amount awarded: **$1,350**.

2013 **TAMU Libraries Open Access to Knowledge (OAK) Fund**. Fees for publication‘A complex evolutionary history in a remote archipelago: phylogeography and morphometrics of the Hawaiian endemic *Ligia* isopods’ in *PLoS ONE*. Total amount awarded: **$1,350**.

*External Non-Competitive*

2015 **NOAA-Texas Sea Grant** “Conservation genomics of the Critically Endangered Kemp’s Ridley sea turtle (*Lepidochelys kempii*)”. Role: PI. Total amount awarded: **$9,000**.

2015 **TAMU Kingsville** “Population Genomics of the Blue Crab, *Callinectes sapidus*, in the Gulf of Mexico” (Funding for AGEP Student Danielle Carter de Macedo; parental grant from National Science Foundation). Role: PI. Total amount awarded: **$7,000**.

2008-2009 Population genetics of the endangered lizard *Ameiva polops*. Government of the Virgin Islands of the United States, Department of Planning and Natural Resources, Division of Fish and Wildlife. Role: PI. Total amount awarded: **$3,500**

2005 Population genetics of the fishery snail *Hexaplex nigritus* in the Upper Gulf of California. Intercultural Center for the Study of Deserts and Oceans, CEDO, Puerto Peñasco, México. Role: PI. Total amount awarded: **$3,500**

# TEACHING

**Teaching philosophy**

The origin of the world’s astonishing biodiversity is intimately associated with the long history of our planet. As part of my scientific research, I have had the privilege to unveil the evolutionary histories of different groups of organisms, which have given me an appreciation on the complexity and variety of processes that have led to the formation of biodiversity; and an awareness that, despite their apparent abundance, the unique components of biodiversity are highly vulnerable. Therefore, as an evolutionary biologist, I have the fundamental responsibility to communicate information to the public so that informed decisions can be made regarding biodiversity. Given all the threats to biodiversity, it is of upmost importance that college graduates in areas related to conservation and management of biodiversity, have a solid understanding of basic biological principles, such as the process of evolution, basic genetics, and the scientific method. Graduate students should be capable of producing reliable data, and reasonably interpreting them. In addition to teaching basic principles in evolution, genetics, and conservation, and train the next generation of scientists, I have several other goals as an educator:

**Help students improve their communication skills.** College graduates should be able to communicate clearly orally and in writing. This is something that is refined with practice. For this reason, students in my courses make presentations and prepare writing assignments, for which I provide feedback aimed at improving their communication skills.

**Enhance students’ critical thinking abilities.** In all my courses, I constantly challenge students with questions that require them to conceptualize, analyze, and synthesize information before reaching a conclusion.

**Demystify evolution.** I find it alarming that approximately one third of Americans do not believe in evolution. Attempts to impose the teaching of creationism and intelligent design are constantly jeopardizing our education system. For this reason, I consider it of utmost importance that college graduates understand well the theory of evolution and the extensive scientific evidence that supports it. In this way, they can help educate the general public on these issues. Many of the undergraduates I teach exhibit discomfort with evolutionary biology. However, I teach conservation genetics in terms of the four evolutionary forces, and it is very gratifying to see that by the end of the course, the students are able to identify the action of each force in different situations. I constantly bring real world examples that show evidence of evolution.

**Help to increase diversity in science.** I consider that the academic endeavor is enhanced by diverse perspectives. To encourage people from different backgrounds to consider a career in science, it is necessary demonstrate that science is inclusive rather than exclusive. I conduct efforts to recruit students from groups underrepresented in science. As a result, I have had a very diverse group of graduates and undergraduates students in my laboratory. I also communicate my research in outreach activities (in Spanish and English) at local elementary schools with large Hispanic and underserved populations, to motivate students about science. I have been speaker at different events aimed at increasing diversity in science.

**Courses Taught**

*-Student evaluations are on a scale of 0-5*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Courses | Credit hours | Enrollment | Semester Taught | Student Evaluation Average |
| ***Undergraduate Courses*** | | | | |
| Wildlife and Fisheries Genetics WFSC 4891 | 3 | 35 | 2009S | 3.92 |
| Wildlife and Fisheries Genetics WFSC 4891 | 3 | 15 | 2010S | 3.39 |
| Conservation Genetics WFSC 4891 | 3 | 23 | 2011S | 2.74 |
| Conservation Genetics WFSC 4891 | 3 | 17 | 2011F | 3.57 |
| Molecular Ecology in Wildlife and Fisheries WFSC 433 | 3 | 22 | 2012F | 4.41 |
| Molecular Ecology in Wildlife and Fisheries WFSC 433 | 3 | 30 | 2013F | 4.06 |
| Molecular Ecology in Wildlife and Fisheries WFSC 433 | 3 | 30 | 2013F | 4.06 |
| Molecular Ecology in Wildlife and Fisheries WFSC 433 | 3 | 30 | 2015F | 3.7 |
| Molecular Ecology in Wildlife and Fisheries WFSC 433 | 3 | 27 | 2016F |  |
|  |  |  |  |  |
| Wildlife and Fisheries Conservation WFSC 304W2 | 3 | 32 | 2013S | 3.74 |
| Wildlife and Fisheries Conservation WFSC 304W2 | 3 | 32 | 2014S | 4.06 |
| Wildlife and Fisheries Conservation WFSC 304W | 3 | 30 | 2015S | 3.45 |
|  |  |  |  |  |
| ***Graduate Courses*** | | | | |
| Conservation Genetics 689 | 3 | 5 | 2007F | 4.44 |
| Conservation Genetics 633 | 3 | 9 | 2009F | 4.54 |
| Conservation Genetics 633 | 3 | 6 | 2012S | 4.51 |
| Conservation Genetics 633 | 3 | 6 | 2014F | 4.04 |
| Conservation Genetics 633 | 3 | 5 | 2016S | 4.7 |
|  |  |  |  |  |
| Evolutionary Ecology 610 | 3 | 12 | 2010F | 4.04 |
|  |  |  |  |  |
| Genetics Seminar 681 | 3 | 6 | 2009F | 4.58 |
| Genetics Seminar 681 | 3 | 5 | 2011S | 4.00 |
|  |  |  |  |  |

1 Temporary course name and number for WFSC 433

2 Co-taught with Dr. Mora. I was in charge of the writing component of this course.

**Note**: I did not teach Fall 08 because I participated in the One Semester Teaching Enhancement Program at the TAMU Center for Teaching Excellence, which released me from other teaching duties.

**Teaching training**

2013 Faculty Workshop on teaching writing courses, TAMU University Writing Center

2008F Participated in the One Semester Teaching Enhancement Program at the TAMU Center for Teaching Excellence

**Graduate Students**

**Graduate Student Committee Involvement**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Since Last Promotion | | Career | |
| Degree | Chair or Co-chair | Member | Chair or Co-chair | Member |
| MSc | 6 | 3 | 6 | 3 |
| PhD | 2 | 6 | 2 | 6 |

**Postdoctoral mentees**

2015-2016 Wei Wang [International]

**Graduate Students – Major Advisor**

Current PhD:

2012-P Xochitl de la Rosa (PhD, WFSC, TAMU) [International, Mexico; CONACYT scholarship]

Current MSc:

2014F Danielle Macedo (MSc, WFSC, TAMU) [Diversity, LSAMP/Sloan]

2015S Violet Ndeda (MSc, WFSC, TAMU) [International, Kenya; Fulbright Fellowship] Co-Chair: Mariana Mateos

Graduated PhD:

2007-13 Carlos Santamaria (PhD, WFSC, TAMU) [Alfred P. Sloan Foundation Minority Ph.D. Program in Mathematics, Science and Engineering Fellowship; TAMU Hispanic Leaders in Agriculture and the Environment Fellowship; TAMU Tom Slick Graduate Fellowship] Co-Chair: Mariana Mateos

Current position: Assistant Professor (tenure-track) University of South Florida Sarasota-Manatee

Graduated MSc

2014-2016 Chang Wang (MSc, WFSC, TAMU) [International, China] Co-Chair: Mariana Mateos

2009-13 Liu Shuang (MSc, WFSC, TAMU) [International, China]

Current position: PhD student at University of British Columbia

2009-12 Eun Jung Lee (MSc, WFSC, TAMU) [International, South Korea] Co-Chair: Mariana Mateos

Current position: Research fellow at Viral Disease Division, Animal and Plant Quarantine Agency, Anyang, Gyeonggido, Republic of Korea

2009-12 Elizabeth Carrera (MSc, WFSC, TAMU) [Hispanic] Co-Chair: Kirk Winemiller

**Graduate Students – Committee Member**

Current PhD

2014-P Breanna Breaux (VET, TAMU)

2015-P Kathryn Bridge (WFSC, TAMU)

Graduated PhD

2008-14 Nicole Smolensky (WFSC, TAMU) [Alfred P. Sloan Foundation Minority Ph.D. Program in Mathematics, Science and Engineering Fellowship]

2007-13 Terrance Boyle (Biology, TAMU)

2008-13 Eric Rosch (Biology, TAMU)

2010-12 Brad Smith (WFSC, TAMU)

2008-12 Carmen Montaña (WFSC, TAMU) [International, Venezuela]

Current MSc

2008-P Lerin Odom (TAMUG)

Graduated MSc

2010-12 Alexandra Chapman (TAMUG)

2009-12 Adrián Moreno (Centro de Investigación en Alimentación y Desarrollo, A. C., campus Guaymas) [International, Mexico]

**Undergraduate Student Research/Mentoring at TAMU**

2008-09 Kimberly Kackley (REU)

2008-10 Desiree Mosley (REU) [African American; currently at a Master’s Program]

2008 Carolina Salmeron (REU) [Hispanic]

2009 Chiedozie Okafor (LSAMP) [African American]

2009 Mariana Gonzalez [International]

2009 Lauren Prew

2009 Adriana Cabrera (REU) [Hispanic]

2011-12 Michael Welps (REU)

2011-12 Maureen Wright (UBM Program)

2012-15 Ellen Giddens [Departmental research fellowship; UBM Program; Undergraduate Research Scholars]

2012 Lauren Lescure [Departmental research fellowship]

2012 Jessica Flemming

2012-13 Micah Wagner (REU)

2014 Tatum Selby [Departmental research fellowship]

2014-2015 Shelby Vega [Departmental research fellowship; Hispanic]

2015 Joshua Brown [Departmental research fellowship]

2016 Kelsea Anthony [Undergraduate Research Scholars; Departmental research fellowship]

**Visiting scholars**

2015-2016 Thatiana Vanessa Soria (PhD Student, Universidade Estadual de Maringá, Brazil)

2015-2016 Ruqqya Naz (PhD Student, Pir Mehr Ali Shah - Arid Agriculture University, Pakistan)

# SERVICE AT TEXAS A&M UNIVERSITY

2016 Member of the Department Climate Committee

2015-16 Member of the College Climate Council

2016 Member of team of College of Agriculture researchers for the Yucatan Initiative

2016 Judge, Hamilton Award Symposium, Society for the Study of Evolution, Evolution Annual Meeting, Austin, Texas

2015 Judge, Hamilton Award Symposium, Society for the Study of Evolution, Evolution Annual Meeting, Guaruja, Brazil

2011-P Committee Member, Marine Biology IDP Graduate Admissions

2008-P Interviewed prospective graduate students for the Genetics IDP

2014 Member WFSC Metrics Committee

2013 Reviewer TAMU-Merit Fellowship applications

2012 Committee Member, Graduate Admissions Applied Biodiversity Science NSF-IGERT Doctoral Program

2011-12 Member WFSC Department Award Committee

2012 Judge for the Entomology Department Graduate Forum

2011 Judge of posters at the 9th Annual Pathways Student Research Symposium

2010 Member of a TAMU faculty team that traveled to Manaus-Brazil to establish long-term research collaborations with researchers from UniNiltonLins and INPA in Brazil

2010 Gave informative talks on the TAMU ABS-IGERT and HLAE programs at UT-Pan American (a Hispanic Serving Institution) for prospective applicants

2010 Judge for posters at the Genetics Graduate Student Research Competition

2010 Judge for the 11th TAMU Ecological Integration Symposium.

2009 Reviewer of manuscript ‘Aquaculture Genetics’ (SRAC Publication No. 5001) for the TAMU-Southern Regional Aquaculture Center

2009 Participated in two University “White Papers” for Academic Master Plan

2009 Attended and mentored student at the 5th TAMU-LSAMP annual symposium in Corpus Christy, TX.

# OTHER PROFESSIONAL SERVICE

*Ad-hoc reviewer for Peer-Reviewed Journals*

Journals (2-10 papers reviewed annually):

Biologia

Biological Journal of the Linnean Society

BMC Bioinformatics

Bulletin of Marine Science

Cahiers de Biologie Marine

Conservation Genetics

Ecology and Evolution

Journal of Biogeography

Journal of Fish Biology

Journal of Wildlife and Management

Marine Biology

Marine Ecology: An Evolutionary Perspective

Molecular Biology and Evolution

Molecular Ecology

Molecular Phylogenetics and Evolution

*PLoS ONE*

The Condor

Zoological Journal of the Linnean Society

*Grant Proposals Reviewing Activities*

*Panelist*

NSF: “Population and Evolutionary Processes” (2009)

*External Reviewer:*

NSF (5 proposals):

- “Population and Evolutionary Processes”

- “Biological Oceanography”

Local (1 proposal):

- Texas Academy of Sciences

International (1 proposal):

- Colciencias, Colombia.

*Other Activities*

2016 Presentations including hands-on activities with isopods at Super Techno Science Night at Southwood Valley Elementary School (Spanish/English)

2015 Judge Hamilton Award Symposium, Society for the Study of Evolution, Evolution Annual Meeting, Guaruja, Brazil.

2014 Presentation for elementary students and their families, including hands-on activities on DNA isolation at College Hills Elementary Cool Science Night (Spanish/English)

2013 Spanish presentation including hands-on activities with isopods for Third Grade Dual Language Program at College Hills Elementary School.

2013 Presentations including hands-on activities with isopods at Super Techno Science Night at Southwood Valley Elementary School (Spanish/English)

2010 Co-organizer of International Symposium: *Multidisciplinary vision for the study of the Sea of Cortez: Research perspectives*. XII Congress of the Asociación de Investigadores del Mar de Cortés, March 2010, Guaymas, Mexico. (Other Co-organizer: Jaqueline García-Hernández)

2010 Judge in VII Reunión Nacional Alejandro Villalobos on crustaceans, Cozumel, Mexico.

2008 Judge in VI Reunión Nacional Alejandro Villalobos on crustaceans, Mazatlán, Mexico

2002 Teaching Assistant for two two-week Marine Biology (Marine Science BIO494) Arizona State University intensive courses taught in Guaymas, México, for members of under-represented groups in sciences. (Course funded by the National Institutes of Health)

# INVITED PRESENTATIONS (23)

2016 Descubriendo al 'elefante': evolución y diversificación en la angosta e inhóspita franja entre el mar y la tierra' UNAM-Sisal, Mexico.

2015 Indicadores biogeográficos en la transición entre el mar y la tierra: son las hipótesis geológicas un espejismo en filogeografía? Biology Departament, Universidad del Tolima, Ibague, Colombia.

2015 Genética de la Conservación. Biology Departament, Universidad del Tolima, Ibague, Colombia.

2013 Remarkable biodiversity and evolution at the interface between sea and land: challenging an old paradigm. Marine Biology Department. TAMU-Galveston.

2013 Seven-pair legged sea “cockroaches” and their cousins don’t disperse much, but are found on every beach: their intriguing evolutionary histories. Department of Entomology, TAMU.

2011 Mirrors and mirages in the Caribbean and Sonoran Desert. Genetics IDP, TAMU.

2010 Cryptic biodiversity and evolutionary processes in a rapidly human-transformed coast. Third International Conference on Urban Biology (impact of humans on the environment), November 2010, Manaus, Brazil.

2010 Biodiversity, Evolution and Conservation in Extreme Marine Habitats. Hispanic Engineering, Science and Technology Week (HESTEC), September 2010, UT-Pan American, Edinburg, Texas. (**Plenary Speaker**)

2010 Integración de datos filogeográficos y geológicos en el Golfo de California. XII Congreso de la Asociación de Investigadores del Mar de Cortés, Simposio: Visión multidisciplinaria para el estudio del Mar de Cortés: perspectivas de investigación, March 2010, Guaymas, Mexico.

2009 Testing Hypothesis of the Geological History of the Gulf of California Baja Peninsula Region using Phylogeographic Patterns of Biogeographic Indicator Species. Alliance for Bioinformatics, Computational Biology and Systems Biology (ABCS) 2009 Workshop, TAMU, College Station, TX.

2007 Evolutionary processes at the sea-land interface. November 2007. Department of Marine Biology, TAMU-Galveston, TX.

2006 Biological diversification in the geologically dynamic Gulf of California-Baja Peninsula region. October 2006. Department of Wildlife and Fisheries Sciences, TAMU.

2005 Biological diversification in the Gulf of California and Sonoran Desert. Department of Biology, University of Texas at El Paso.

2003 Patterns of genetic differentiation among rocky intertidal organisms of the Gulf of California. Intercultural Center for the Study of Deserts and Oceans, CEDO, Puerto Peñasco, México.

2002 Evolution and biogeography of hydrothermal vent organisms in the East Pacific Ocean. Marine Awareness Conservation Society, University of Arizona, Tucson, AZ.

2002 Phylogeographic insights from extreme environments. Graduate Evolutionary Program, University of California, Riverside, CA.

2002 Evolution in hydrothermal vents. Institute for Strengthening the Understanding of Mathematics and Science- Minority Access to Research Careers Program, Arizona State University, (Tempe, AZ) SUMS Institute-MARC Program, Arizona State University, Tempe, AZ.

2002 Evolution and biogeography of hydrothermal vent creatures in the East Pacific Ocean. Center for Insect Science, University of Arizona, Tucson, AZ.

2002 Evidence for strictly vertical transmission of an endosymbiotic bacterium in the hydrothermal vent clam *Calyptogena magnifica*. Center for Insect Science, University of Arizona, Tucson, AZ.

2002 Filogeografía de invertebrados de Fuentes hidrotermales del Pacífico oriental. Centro de Investigación en Alimentación y Desarrollo (CIAD), México, (3 seminars; one at each of three different units of CIAD: Hermosillo, Mazatlán, and Guaymas).

2001 Deep Sea Research. Veterans Center, Watsonville, CA (Seminar for the general public).

# AWARDS, SCHOLARSHIPS, AND FELLOWSHIPS GIVEN TO MY STUDENTS

|  |  |
| --- | --- |
| \* | *Graduate students in my lab* |
| \*\* | *Undergraduate students in my lab* |

Conference Travel Awards

2011 **Eun Jung Lee\*** ~$250 Graduate Program Enhancement Funds, Texas A&M University-Wildlife and Fisheries Sciences

2011 **Shuang Liu\*** ~$250 Graduate Program Enhancement Funds, Texas A&M University-Wildlife and Fisheries Sciences

2010 **Eun Jung Lee\*** ~$135 Graduate Program Enhancement Funds, Texas A&M University-Wildlife and Fisheries Sciences

**Carlos Santamaria\*** ~$300American Genetics Association (AGA) Annual Symposium Travel Scholarship

**Shuang Liu\*** ~$300American Genetics Association (AGA) Annual Symposium Travel Scholarship

2009 **Carlos Santamaria\*** Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Dallas, TX

**Carlos Santamaria\*** ~$500, Graduate Program Enhancement Funds, Texas A&M University-Wildlife and Fisheries Sciences

**Desiree Mosley**\*\* Undergraduate Diversity Mentoring Program Award, Annual Meeting of the Society of Molecular Biology and Evolution

2008 **Carlos Santamaria\*** Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Salt Lake City, UT

**Carlos Santamaria\*** ~$700 travel award,Ecology and Evolutionary Biology Program, Texas A&M University

Research Funds Awards

2016 **Kelsea Anthony**\*\*$2,000 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences

2015 **Joshua Brown\***\* $3,500 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences

2014 **Shelby Vega\***\* $3,500 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences

**Tatum Selby\*\*** $3,500 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences

2013 **Xochitl de La Rosa**\* $1,000 Texas Sea Grant

2012 **Lauren Lescure\*\*** $3,500 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences

**Ellen Giddens\*\*** $3,500 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences

2010 **Carlos Santamaria\*** ~$2,500 Community Impact Fund, Hispanic Leaders in Agriculture

Scholarships/Fellowships for tuition/stipend

2016-17 **Violet Ndeda**\* $18,000 (starting Fall 2016) AAUW International Master's/First Professional Degree Fellowship

2015-16 **Violet Ndeda**\* (starting Spring 2015) Fulbright Fellowship covering tuition and living expenses (2015-16)

2014-16 **Danielle Macedo\* ~**$30,000Louis Stokes Alliance for Minority (LSAMP) Bridge to Doctorate (BTD) Fellowship program, Texas A&M University (2014-16 academic year)

2012 **Carlos Santamaria\*** $40,000Tom Slick Fellowship (2012-13 academic year), Texas A&M University

**Ellen Giddens**\*\* Summer stipend from Mathematical Biology/Ecology/Physiology NSF-funded REU Program (TAMU-Mathematics Dept.)

2011 **Xochitl de La Rosa \*** ~$155,000 Full scholarship for PhD studies (4-years). Consejo Nacional de Ciencia y Tecnología (CONACyT; equivalent agency to NSF in Mexico)

2008 **Carlos Santamaria\*** ~$29,000 Minority PhD Program Scholarship, Alfred P. Sloan Foundation

**Carlos Santamaria\*** ~$45,000 Hispanic Leaders in Agriculture, College of Agriculture and Life Sciences, Texas A&M University

Prizes for presentations at conferences

2015 **Xochitl de La Rosa \*** Second place for graduate student poster “Contribution of Genetic Evaluations in the Management of Wild and Domestic Stocks of Channel Catfish (Ictalurus punctatus)”, 16th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX

2013 **Carlos Santamaria\*** First place (shared with another participant) for Earth Sciences graduate student oral presentation category “Phylogeography of *Ligia* isopods in the Caribbean and Eastern Pacific”, Student Research Week, Texas A&M University, College Station, TX

2012 **Xochitl de La Rosa \*** Second place for graduate student poster “Genetic diversity and structure among subspecies of white-tailed deer in Mexico”, 13th Ecological Integration Symposium, Texas A&M University, College Station, TX

2008 **Carlos Santamaria\*** Best Poster Presentation at The Crustacean Society’s Summer Meeting, Galveston, TX

**Carlos Santamaria\*** Best Overall and Best Life Sciences Presentation at the 6th Pathways Symposium, Texas A&M University System, Commerce, TX

# CONTRIBUTED PRESENTATIONS SINCE APPOINTMENT AT TAMU (31)

|  |  |
| --- | --- |
| \* | *Graduate students in my lab* |
| \*\* | *Undergraduate students in my lab* |

**2016**

Hurtado LA, Mateos M. Diversidad criptica extraordinaria, problemas taxonómicos, e historias evolutivas interesantes en isópodos costeros mexicanos. X Reunión Nacional Alejandro Villalobos, Mérida, Yucatán, 24-28 October.

Hurtado, L.A., M. Mateos, W. Wang, D. Macedo M. Population genomics of the blue crab (*Callinectes sapidus*) in coastal US. Evolution Meetings, Austin, TX, 17-21 June.

De La Rosa M, X.\*, M. Mateos, D. Shaver, M.A. Reyes Lopez, L.A. Hurtado. Conservation genetics of the critically endangered Kemp’s Ridley Sea Turtle. Evolution Meetings, Austin, TX, 17-21 June (poster).

Wang\*, C., C. Santamaria, M. Mateos, L.A. Hurtado. Phylogeographic reconstruction reveals invasion history of supralittoral isopod *Ligia exotica*: human-mediated introduction of cryptic species from East Asia to the Gulf of Mexico. Annual Ecological Integration Symposium, Texas A&M University, 1 April (poster)

De La Rosa M, X.\*, M. Mateos, D. Shaver, M.A. Reyes Lopez, L.A. Hurtado. Assessment of genetic diversity, spatial and temporal genetic structure and effective population size for the critically endangered Kemp's ridley sea turtle (*Lepidochelys kempii*). Annual Ecological Integration Symposium, Texas A&M University, 1 April

Danielle Macedo\*, Shelby Vega, Ellen Giddens, Mariana Mateos, Luis Hurtado. Population genetics of the blue crab in the Gulf of Mexico and Atlantic coast: Progress Report. 2016 Texas Chapter of the American Fisheries Society Annual Meeting, Kerrville TX, January 21-23.

Wei Wang, Mariana Mateos, Luis Hurtado. Population Genomics of the Blue Crab *Callinectes sapidus* in the Gulf of Mexico and Atlantic US: Progress Report. 2016 Texas Chapter of the American Fisheries Society Annual Meeting, Kerrville TX, January 21-23.

Xochitl de la Rosa-Reyna, Luis Hurtado. Genetic evaluation of channel catfish (*Ictalurus punctatus*) restocking in Texas. 2016 Texas Chapter of the American Fisheries Society Annual Meeting, Kerrville TX, January 21-23.

Soria TV; Hurtado LA; Prioli SMAP; Zawadzki CH; Diamante NA. Molecular characterization of *Hypostomus* diversity in southern Brazil. 2016 Texas Chapter of the American Fisheries Society Annual Meeting, Kerrville TX, January 21-23.

**2015**

De La Rosa-Reyna X\*, Mateos M, Shaver DJ, Reyes-López MA, and Hurtado LA. Conservation Genetics of the Critically Endangered Kemp's Ridley Sea Turtle: An Opportunity for Urgent Bi-national Research. Texas Sea Grant Poster Session, September 17, College Station. (Poster).

Macedo D\*, Wang W, Mateos M and Hurtado LA. Population Genetics of the Blue Crab, *Callinectes sapidus*, in the Gulf of Mexico: Progress Report. Texas Sea Grant Poster Session, September 17, College Station. (Poster).

Hurtado LA, Mateos M, Liu S\*, Mattos G, Haye P, and Paiva PC. Signatures of multiple transisthmian divergences in a marine coastal isopod (*Excirolana braziliensis*) with an amphi-American distribution. Evolution Annual Meeting, June 26-30, 2015, Guaruja, Brazil. (Poster).

De la Rosa X\* and Hurtado LA. Contribution of Genetic Evaluations in the Management of Wild and Domestic Stocks of Channel Catfish (*Ictalurus punctatus*). 16th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX. (Poster; awarded 2nd place as best poster presentation)

**2014**

Hurtado LA and De la Rosa X\*. Conservation genetics of the Kemp’s ridley (*Lepidochelys kempii)*. 2nd International Kemp's Ridley Sea Turtle Symposium. Brownsville, TX. November 18-19. (Oral)

De La Rosa X\*, Sifuentes-Rincón AM\*, Parra-Bracamonte GM, Arellano-Vera W, Hurtado LA. A beloved and hated species, the channel catfish (*Ictalurus punctatus*), why to study conservation genetics in a successful species? 15th Annual Ecological Integration Symposium, March 2014, Texas A&M University. (Poster)

**2013**

Hurtado LA and Mateos M. Biodiversity and phylogeography of supralittoral oniscideans. Summer Meeting of The Crustacean Society (TCS), jointly hosted with the Latin American Association of Carcinology (ALCARCINUS). San Jose, Costa Rica (Oral)

Santamaria CA\*, Mateos M, Hurtado LA. Phylogeography of *Ligia* isopods in the Caribbean and Eastern Pacific. Student Research Week, March 2013, Texas A&M University. (Oral). (**Awarded Best Oral Presentation**)

Giddens E\*\*, Liu S, Santamaria CA, and Hurtado LA. Patterns of spatial and temporal genetic differentiation of the blue crab (*Callinectes sapidus)*, an estuarine keystone species in the northern Gulf of Mexico: A progress report. Student Research Week, March 2013, Texas A&M University. (Poster).

Santamaria CA\*, Mateos M, Hurtado LA. Phylogeography of *Ligia* isopods in the Caribbean and Eastern Pacific. 14th Annual Ecological Integration Symposium, March 2013, Texas A&M University. (Oral).

De la Rosa X\* and Hurtado LA. Mitochondrial genomes phylogenetic analyses supports the conservation of white-tailed deer (*Odocoileus virgininanus*) subspecies. 14th Annual Ecological Integration Symposium, March 2013, Texas A&M University. (Oral).

**2011**

Liu S\*, Sun J, Hurtado LA. Genetic differentiation of *Portunus trituberculatus*, the world's largest crab fishery, among its three main fishing areas. 12th Annual Ecological Integration Symposium, March 2011, Texas A&M University. (Oral).

Liu S\*, Mateos M., Hurtado LA. Phylogeography of intertidal *Excirolana* Isopods in Gulf of California. 12th Annual Ecological Integration Symposium, March 2011, Texas A&M University. (Poster).

Lee E J\*, Mateos M, Hurtado LA.Phylogeography of supralittoral intertidal *Tylos* isopods in the Pacific region between central Mexico and southern California. 12th Annual Ecological Integration Symposium, March 2011, Texas A&M University. (Poster).

Santamaria CA\*, Hurtado LA. Detecting cryptic variation in the isopod *Ligia hawaiiensis* by combining molecular and geometric-morphometric approaches. Hispanics Leaders in Agriculture and the Environment (HLAE) Annual Symposium in Corpus Christi, TX. (Oral).

**2010**

Shuang L\*, Sun J, Hurtado LA. Conservation genetics of the crab *Portunus trituberculatus* in China. Marine Biology Science Symposium, December 2010, TAMU-Galveston. (Poster).

Lee EJ\*, Hurtado LA, Mateos M. Cryptic diversification of isopods of the genus Tylos in Western North America. Marine Biology Science Symposium, December 2010, TAMU-Galveston. (Poster).

Hurtado LA, Mateos M, Santamaria CA\*. Filogeografía de isópodos del género *Ligia* en la región del Pacífico comprendida entre Guerrero, México y California, EEUU. VII Congreso Alejandro Villalobos, October 2010, Cozumel, Mexico. (Oral)

Santamaria CA\*, Fitzgerald LA, Hurtado LA. Conservation Genetics of the endangered Saint Croix ground lizard *Ameiva polops*. Conservation Genomics, American Genetics Association Annual Symposium, July 26-28, 2010, Hilo, HI. (Poster)

Shuang L\*, Sun J, Hurtado LA. Conservation genetics of the crab *Portunus trituberculatus* in China. Conservation Genomics, American Genetics Association Annual Symposium, July 26-28, 2010, Hilo, HI. (Poster).

Hurtado LA, Mateos M, Santamaria CA\*. Phylogeography of *Ligia* rocky intertidal isopods and the controversial geological history of the Gulf of California–Baja Peninsula Region. Evolution Annual Meeting, June 2010, Portland, OR, USA. (Oral).

Lee EJ\*, Hurtado LA, Mateos M. Cryptic diversification of isopods of the genus *Tylos* in Western North America. Evolution Annual Meeting, June 2010, Portland, OR, USA. (Poster).

Shuang L\*, Sun J, Hurtado LA. Conservation genetics of the crab *Portunus trituberculatus* in China. Evolution Annual Meeting, June 2010, Portland, OR, USA. (Poster).

Lee EJ\*, Hurtado LA, Mateos M. Cryptic diversification of isopods of the genus Tylos in Western North America. 11th Annual Ecological Integration Symposium, March 2010, Texas A&M University. (Poster).

Shuang L\*, Sun J, and Hurtado LA. 2010. Conservation genetics of the crab *Portunus trituberculatus* in China. 11th Annual Ecological Integration Symposium and Student Research Week, March 2010, Texas A&M University. (Poster).

Santamaria CA\*, Fitzgerald LA, Hurtado LA. 2010. Conservation Genetics of the endangered Saint Croix ground lizard *Ameiva polops*. 11th Annual Ecological Integration Symposium and Student Research Week, Texas A&M University. (Poster).

**2009**

Santamaria CA\*, Mateos M, Vrijenhoek RC, Hurtado LA. Molecular Systematics of Bythograeid Crabs. Alliance for Bioinformatics, Computational Biology and Systems Biology (ABCS) 2009 Workshop, TAMU, College Station, TX. (Poster).

Santamaria CA\*, Mateos M, Vrijenhoek RC, Hurtado LA. Molecular Systematics of Bythograeid Crabs. 2009 SACNAS National Conference in Dallas, TX. (Poster).

Santamaria CA\*, Mateos M, Vrijenhoek RC, Hurtado LA. Molecular Systematics of Bythograeid Crabs. 2009 Annual Meeting of the Society for Evolution, Moskow, ID. (Poster).

Mosley DL\*\*, Cabrera AC\*\*, Gonzalez M\*\*, Okafor CE\*\*, Prew LA\*\*, Santamaria CA\*, Hurtado LA. Testing for hybridization upon secondary contact in two divergent rocky intertidal isopod lineages of the Baja Peninsula, Gulf of California. 2009 Annual Meeting of the Society for Molecular Biology and Evolution, Iowa City, IA. (Poster).

Santamaria CA\*, Cudney R, Hurtado LA. Genetics of *Hexaplex nigritus*, an Important Gastropod Fishery in the Upper Gulf of California. International Marine Conservation Congress (IMCC) 2009 in Washington D.C. (Poster).

Santamaria CA\*, Mateos M, Vrijenhoek RC, Hurtado LA. Molecular Systematics of Bythograeid Crabs. 2009 Texas A&M University Student Research Week in College Station, TX. (Poster).

Cabrera AC\*\*, Gonzalez M\*\*, Mosley DL\*\*, Okafor CE\*\*, Prew LA\*\*, Santamaria CA\*, Hurtado LA. Testing for hybridization upon secondary contact in two divergent rocky intertidal isopod lineages of the Baja Peninsula, Gulf of California. 2009 10th Annual Ecological Integration Symposium, Texas A&M University. (Poster).

**2008**

Santamaria CA\*, Mateos M, Vrijenhoek RC, Hurtado LA. Molecular Systematics of Bythograeid Crabs. 6th Annual Texas A&M University System Pathways to the Doctorate Conference. (Poster; **Awarded Best Overall Presentation**).

Santamaria CA\*, Cudney R, Hurtado LA. Conservation Genetics of an Important Gastropod Fishery in the Upper Gulf of California. 2008 SACNAS National Conference. (Poster).

Hurtado LA, Mateos M, Santamaria CA.\*. Niveles extraordinarios de diferenciación alopátrica y filogeografía del isópodo *Ligia occidentalis*. 2008 VI Reunión Nacional Alejandro Villalobos, Mazatlán, Mexico. (Oral).

Hurtado LA, Mateos M, Markow TA. Extraordinary allopatric genetic differentiation of the isopod *Ligia occidentalis* and the geological history of the Baja Peninsula-Gulf of California region. The Crustacean Society Summer meeting, Galveston, TX, June 9-13, 2008. (Oral).

Santamaria CA\*, Hurtado LA, Vrijenhoek RC. Molecular systematics of bythograeid crabs. The Crustacean Society Summer meeting, Galveston, TX, June 9-13, 2008. (Poster; **Awarded Best Student Poster Presentation**).

**Contributed presentations prior to TAMU appointment (16)**

Hurtado LA, Markow TA. 2004. Origin of the Gulf of California: Insights from intertidal isopods. Evolution Meetings. Fort Collins, CO. (Oral).

Hurtado LA, Markow TA. 2003. Phylogeography of three Sonoran Desert cactophilic *Drosophila*. Evolution Meetings, Chico, CA. (Oral).

Hurtado LA, Erez T, Castrezana S, Markow TA. 2003. Phylogeography of three Sonoran Desert cactophilic *Drosophila*. 10th Annual poster Hexapodium. Center for Insect Science, University of Arizona, Tucson, AZ. (Poster).

Hurtado LA, Vrijenhoek RC. 2002. Evolution and biogeography of hydrothermal vent organisms in the Eastern Pacific Ocean. Evolution Meetings, Urbana, IL. (Oral).

Hurtado LA, Mateos M, Lutz RA, Vrijenhoek RC. 2001. Evidence for strictly vertical transmission of an endosymbiont bacterium in the hydrothermal vent clam *Calyptogena magnifica*. California Population and Evolutionary Group, University of California, Santa Barbara, CA. (Oral).

Hurtado LA, Vrijenhoek RC. 2001. Detecting dispersal barriers for hydrothermal vent invertebrates along the East Pacific Rise. Second International Symposium on Deep-Sea Hydrothermal Vent Biology, Brest, France. (Oral).

Hurtado LA, Vrijenhoek RC. 2001. Molecular evidence for cryptic species in the tubeworm genus *Oasisia*. Second International Symposium on Deep-Sea Hydrothermal Vent Biology. Brest, France. (Poster).

Hurtado LA, Vrijenhoek RC. 2001. Detecting dispersal barriers for hydrothermal vent invertebrates along the East Pacific Rise: preliminary results. LARVE Symposium on Larval Biology, Dispersal and Gene Flow at Hydrothermal Vents, Ogden, UT. (Oral).

Hurtado LA. 2000. Population structure and gene flow in the tubeworm *Tevnia jerichonana* and the giant clam *Calyptogena magnifica*. California Population and Evolutionary Group, University of California, Santa Cruz, CA. (Oral).

Hurtado LA, Vidal O. 1996. Habitat use, movements and social organization of the boto *(Inia geoffrensis)* in the Upper Amazon River. Workshop on Environmental Biology of Deserts and Oceans. Guaymas, México. (Poster).

Hurtado LA, Castrezana S, Mateos M, Tello MK, McLauren D, Campoy J, Markow TA. 1996. Developmental stability in natural populations of *Drosophila pachea.* Workshop on Environmental Biology of Deserts and Oceans. Guaymas, México. (Poster).

Linares F, Nava M, Ojeda Z, Hurtado LA. 1996. Marine vertebrate collection of the ITESM- Campus Guaymas. Workshop on Environmental Biology of Deserts and Oceans. Guaymas, México. (Poster).

Hurtado LA, Vidal O. 1995. Habitat use, home ranges and group organization of the bufeo colorado *(Inia geoffrensis)* in the upper Amazon River. Eleventh Biennial Conference on the Biology of Marine Mammals, Orlando, FL. (Oral).

Vidal O, Ojeda Z, Hurtado LA, Cendón P. 1995. Ecología y organización social de los delfines *(Inia geoffrensis* y *Sotalia fluviatilis)* del Alto Río Amazonas. XX Reunión Internacional para el Estudio de los Mamíferos Marinos, La Paz, Baja California Sur, México. (Oral).

Vidal O, Hurtado LA, Ojeda Z, Cendón P. 1994. Ecología y conservación de los delfines de la parte alta del Río Amazonas, 6a Reunión de Trabajo de Especialistas en Mamíferos Acuáticos de América del Sur, Florianopolis, Brazil. (Oral).

Vidal O, Hurtado LA, Ojeda Z, Cendón P. 1993. The dolphins of the Upper Amazon River: A progress report, Tenth Biennial Conference on the Biology of Marine Mammals, November, Galveston, TX. (Oral).

I hereby acknowledge that the above information is the most current and correct to the best of my knowledge as of the date of the signature.

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