

CURRICULUM VITAE

MARIANA MATEOS

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EDUCATION

1996-02 Ph.D. Ecology and Evolution. Rutgers University, NJ
1991-95 B.Sc. Biochemical Engineering in Aquatic Resources (Highest Honors), Instituto Tecnológico y de Estudios Superiores de Monterrey-Guaymas, Mexico

CURRENT POSITION

Associate Professor
Since September 2014
(on Faculty Development Leave Fall 2014 & Spring 2015)
Department of Wildlife and Fisheries Sciences, Texas A&M University

JOB EXPECTATION

Research

Develop a competitive and extramurally funded research program in the area the evolutionary ecology of symbiotic associations, and molecular phylogenetics and phylogeography. Advise graduate student research.

Teaching

Teaching one introductory undergraduate course per year in the area of Ecology, and one graduate course per year in the area of Molecular Evolution or Phylogenetics. 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):

- Ecology and Evolutionary Biology Interdisciplinary Research Program (Core Faculty)
- Genetics Interdisciplinary Degree Program (Faculty)
- Applied Biodiversity Science (ABS) NSF-IGERT Program (Faculty Participant)

PAST PROFESSIONAL APPOINTMENTS

- 2006-14 Assistant Professor, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station
- 2005-06 Assistant Professor, Department of Biological Sciences, University of Texas at El Paso
- 2004-05 Postdoctoral Research Associate, Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ
- 2002-04 Postdoctoral Research Associate, Center for Insect Science and Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ
- 1996 Director's Assistant, Conservation International-Gulf of California Program, Guaymas, Mexico

HONORS/AWARDS

- 2014-15 Award from CONACyT (Consejo Nacional de Ciencia y Tecnología) for sabbatical visit hosted by Dr. Esperanza Martínez-Romero, Centro de Ciencias Genómicas, Universidad Nacional Autónoma de México (UNAM)
- 2014-20 Level II Distinction of the National Researcher System of Mexico (Sistema Nacional de Investigadores)
- 1996-99 Fulbright-García Robles Fellowship for Doctoral studies

MEMBERSHIPS/SOCIETIES

Society for the Study of Evolution

International Symbiosis Society

Genetics Society of America

American Society for Microbiology

Entomological Society of America

Society for Advancement of Chicanos and Native Americans in Science

REFEREED PUBLICATIONS

When first author is associated with my laboratory (as indicated by * or **) my name appears last, as the senior author. Otherwise, my author position reflects degree of contribution (from larger to smaller).

*Graduate students in my lab

**Undergraduate students in my lab

†Graduate students who interned in my lab

^CCorresponding author

[¶]Contributed equally

^MGraduate student on whose committee I serve(d)

^PPostdoctoral Researcher Mentee

Citation Metrics (as of 01/07/19)	ISI ¹	Google Scholar ²
Number of times cited	1025	1536
Average cites per paper ³	33.06	46.54
H-index:	16	19

¹ <http://www.researcherid.com/rid/B-5235-2008>

² <http://scholar.google.com/citations?user=5crpC3sAAAAJ>

³ based on publications with at least one citation

38. Mateos^C, M., O. Domínguez-Domínguez, A. Varela-Romero. In Press. A multilocus phylogeny of the fish genus *Poeciliopsis*: solving taxonomic uncertainties and preliminary evidence of reticulation. **Ecology and Evolution** doi: 10.1002/ece3.4874
37. Ndeda*, V.M., M. Mateos^C, L.A. Hurtado^C. 2018. Evolution of African barbids from the Lake Victoria drainage system, Kenya. **PeerJ** 6:e5762 doi: 10.7717/peerj.5762
36. Mattos^C, G., P.C Paiva, M. Mateos, P.A. Haye, L.A. Hurtado. 2018. The cost of ignoring cryptic diversity in macroecological studies: Comment on Martínez et al. (2017). **Marine Ecology Progress Series** 601:269-271 doi: 10.3354/meps12701
35. Hurtado^C, L.A., M. Mateos, C. Wang*, C. Santamaria, J. Jung, V. Khalaji-Pirbalouty, and W. Kim. 2018. Out of Asia: mitochondrial evolutionary history of the globally introduced supralittoral isopod *Ligia exotica*. **PeerJ** 6:e4337. doi: 10.7717/peerj.4337
34. Hurtado^C, L.A., M. Mateos^C, S. Liu^M. 2017. Phylogeographic patterns of a lower intertidal isopod in the Gulf of California and the Caribbean and comparison with other intertidal isopods. **Ecology and Evolution** 7: 346–357. doi: 10.1002/ece3.2599
33. Hurtado^C, L.A., M. Mateos, G. Mattos, S. Liu^M, P.A. Haye, P.C. Paiva. 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(21): 7794-7808. doi:10.1002/ece3.2397

32. Palacios^{†C}, M., G. Voelker, L. Arias-Rodriguez, M. Mateos, M. Tobler. 2016. Phylogenetic analyses of the subgenus *Mollienesia* (Poecilia, Poeciliidae, Teleostei) reveal taxonomic inconsistencies, cryptic biodiversity, and spatio-temporal aspects of diversification in Middle America. **Molecular Phylogenetics and Evolution** 103: 230-244. doi: 10.1016/j.ympev.2016.07.025
31. Koralewski^{M,C}, T.E, M. Mateos, K.V. Krutovsky. 2016. Conflicting genomic signals affect phylogenetic inference in four species of North American pines. **AoB Plants** 8:plw019. doi: 10.1093/aobpla/plw019
30. Mateos^C, M., L. Winter**, C. Winter**, V. Higareda-Alvear*, E. Martinez-Romero, J. Xie. 2016. Independent origins of resistance or susceptibility of parasitic wasps to a defensive symbiont. **Ecology and Evolution** 6(9): 2679–2687. doi:10.1002/ece3.2085
29. Hurtado^C, L.A., X. De La Rosa-Reyna, M. Mateos, D.J. Shaver, R. Metz, J. Thiltges, J. Hill, M.A. Reyes-Lopez, C. Johnson. 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):214–218
28. Santamaria*, C, M. Mateos, T. DeWitt, L.A. Hurtado^C. 2016. Constrained body shape among highly genetically divergent allopatric lineages of the supralittoral isopod *Ligia occidentalis* (Oniscidea). **Ecology and Evolution** 6(5):1537–1554. doi: 10.1002/ece3.1984
27. Xie*, J., C. Winter**, L. Winter**, and M. Mateos^C. 2015. Rapid spread of the defensive endosymbiont *Spiroplasma* in *Drosophila hydei* under high parasitoid wasp pressure. **FEMS Microbiology Ecology**. 91: 2–11. doi: 10.1093/femsec/fiu017
26. Santamaria*, C.A., M. Mateos^C, and L.A Hurtado^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
25. Hurtado^C, L.A., E.J. Lee*, M. Mateos, and S. Taiti. 2014. Global diversification at the harsh sea-land interface: Mitochondrial phylogeny of the supralittoral isopod genus *Tylos* (Tyliidae, Oniscidea). **PLoS ONE** 8: e94081. doi: 10.1371/journal.pone.0094081
24. Xie*, J., S. Butler**, G. Sanchez**, and M. Mateos^C. 2014. Male killing *Spiroplasma* protects *Drosophila melanogaster* against two parasitoid wasps. **Heredity** 112: 399–408
[paper featured in upcoming *The Heredity Podcast*
http://www.nature.com/multimedia/podcast/hdy/hdypodcast_1311.mp3]
23. Santamaria*, C.A., M. Mateos, S. Taiti, T.J. DeWitt, and L.A. Hurtado^C. 2013. A complex evolutionary history in a remote archipelago: phylogeography and morphometrics of the Hawaiian endemic *Ligia* isopods. **PLoS ONE** 8: e85199. doi:10.1371/journal.pone.0085199
22. Eberl^C, R., M. Mateos, R.K. Grosberg, C.A. Santamaria*, and L.A. Hurtado^C. 2013. Phylogeography of the supralittoral isopod *Ligia occidentalis* around the Point Conception marine biogeographic boundary. **Journal of Biogeography** 40: 2361-2372.
21. Hurtado^C, L.A., E.J. Lee*, and M. Mateos. 2013. Contrasting phylogeography of sandy vs. rocky supralittoral isopods in the megadiverse and geologically dynamic Gulf of California and adjacent areas. **PLoS ONE** 8: e67827

20. Silva* N.O., L.L. Guenther**, J. Xie*, and M. Mateos^C. 2012. Infection densities of three *Spiroplasma* strains in the host *Drosophila melanogaster*. **Symbiosis** 57: 83–93.
19. Martinez*, H., J. Toledo, P. Liedo, and M. Mateos^C. 2012. Survey of heritable endosymbionts in southern Mexico populations of the fruit fly species *Anastrepha striata* and *A. ludens*. **Current Microbiology** 65: 711–718.
18. Mateos^{†C}, M., L.A. Hurtado^{†C}, C.A. Santamaria*, V. Leignel, and D. Guinot. 2012. Molecular systematics of the deep-sea hydrothermal vent endemic brachyuran family Bythograeidae: a comparison of three Bayesian Species tree methods. **PLoS ONE** 7: e32066.
17. Tobler^C, M., M. Palacios[†], L. Chapman, I. Mitrofanov, D. Bierbach, M. Plath, L. Arias-Rodriguez, F. J. García de León, and M. Mateos. 2011. Replicated phenotypic differentiation in livebearing fish inhabiting sulfidic springs. **Evolution** 65: 2213–2228.
16. Xie*, J., B. Tiner**, I. Vilchez[†], and M. Mateos^C. 2011. Reproductive fitness of *Spiroplasma*-infected *Drosophila* flies surviving a parasitoid wasp attack. **Evolutionary Ecology** 25: 1065–1079.
15. Culumber^C, Z., H. Fisher, M. Tobler, M. Mateos, P. Barber, M. Sorenson, and G. Rosenthal. 2011. Replicated hybrid zones of *Xiphophorus* swordtails along an elevational gradient. **Molecular Ecology** 20: 342–356.
14. Xie*, J., I. Vilchez[†], and M. Mateos^C. 2010. *Spiroplasma* bacteria enhance survival of *Drosophila hydei* attacked by the parasitic wasp *Leptopilina heterotoma*. **PLoS ONE** 5: e12149.
13. Hurtado^C, L.A., M. Mateos, and C.A. Santamaria*. 2010. Phylogeography of *Ligia* isopods from Central California to Central Mexico. **PLoS ONE** 5: e11633.
12. O’Neill^C, M.J., B.R. Lawton, M. Mateos, D.M. Liscinsky, G.C. Ferreri, T. Hrbek, R.W. Meredith, D.N. Reznick, and R.J. O’Neill. 2007. Ancient and continuing Darwinian selection on *Insulin-like Growth Factor II* in Placental fishes. **Proceedings of the National Academy of Sciences, USA**: 104: 12404-12409.
11. Mateos^C, M., S.J. Castrezana, B.J. Nankivell, A.M. Estes, T.A. Markow, and N.A. Moran. 2006. Heritable endosymbionts of *Drosophila*. **Genetics**: 174: 363–376.
10. Mateos^C, M. and T.A. Markow. 2005. Ribosomal intergenic spacer (IGS) length variation across the Drosophilinae (Diptera: Drosophilidae). **BMC Evolutionary Biology** 5: 46.
9. Weider^C, L.J., J.J. Elser, T.J. Crease, M. Mateos, T.A. Markow, and J.B. Cotner. 2005. Functional ecological significance of ribosomal(r)DNA variation: Impacts on the evolutionary ecology of organisms. **Annual Review of Ecology Evolution and Systematics** 36: 219–242.
8. Mateos^C, M. 2005. Comparative phylogeography of the genera *Poecilia* and *Poeciliopsis* in Central Mexico. **Journal of Biogeography** 32: 775–780.
7. Mateos^C, M. and R.C. Vrijenhoek. 2005. Independent origins of allotripleidy in the fish genus *Poeciliopsis*. **Journal of Heredity** 89: 32–39.

6. Hurtado^C, L.A., M. Mateos, R.A. Lutz, and R.C. Vrijenhoek. 2003. Coupling of bacterial endosymbiont and mitochondrial genes in the hydrothermal vent clam *Calyplogena magnifica*. **Applied and Environmental Microbiology** 69: 2058–2064.
5. Reznick^C, D.N., M. Mateos, and M.S. Springer. 2002. Independent origins and rapid evolution of the placenta in the fish genus *Poeciliopsis*. **Science** 298: 1018–1020.
4. Mateos^C, M., O.I. Sanjur, and R.C. Vrijenhoek. 2002. Historical biogeography of the fish genus *Poeciliopsis* (Cyprinodontiformes). **Evolution** 56: 972–984.
3. Mateos^C, M. and R.C. Vrijenhoek. 2002. Ancient vs. reticulate origin of a hemiclinal lineage. **Evolution** 56: 985–992.
2. Hurtado^C, L.A., M. Mateos, R.A. Lutz, and R.C. Vrijenhoek. 2002. Molecular evidence for multiple species of *Oasisia* (Annelida: Siboglinidae) at eastern Pacific hydrothermal vents. **Cahiers de Biologie Marine** 43: 377–380.
1. Hurtado, L., S. Castrezana, M. Mateos, D. McLaurin, M.K. Tello, J. Campoy, and T. Markow^C. 1997. Developmental instability and environmental stress in natural populations of *Drosophila pachea*. **Ecotoxicology** 6: 233–238.

MANUSCRIPTS IN REVIEW OR REVISION (Refereed Journal Articles)

4. Mateos^C, M., N. Silva, P. Ramirez, V.M. Higareda-Alvear, R. Aramayo, and J. Erickson. submitted. Effect of heritable symbionts on maternally-derived embryo transcripts. **Scientific Reports**
3. Palacios^{*C}, M., A.A. González-Díaz, L.A. Arias-Rodríguez, M. Mateos, R. Rodiles-Hernandez M. Tobler, G. Voelker. in review. The phylogeographical patterns of shortfin mollies (*Mollienesia*, *Poecilia*, *Poeciliidae*) in Mexico. **Hydrobiologia**
2. Mateos^C, M., H. Martínez*, S.B. Lanzavecchia, C. Conte, K. Guillén, B.M. Morán-Aceves, J. Toledo, P. Liedo, E.D. Asimakis, V. Doudoumis, G. Kyritsis, N. Papadopoulos, A.A. Augustinos, D.F. Segura, G. Tsiamis, and K. Bourtzis. Minor revision submitted. *Wolbachia pipientis* associated to tephritid fruit fly pests: understanding the incidence and consequences as a basis for developing sustainable control methods. **BMC Microbiology**
1. Macedo*, D., I. Caballero^P, M. Mateos, L.A. Hurtado^C. revision in preparation Population genetics of the blue crab *Callinectes sapidus* based on microsatellite markers. **PeerJ**

MANUSCRIPTS IN PREPARATION (Refereed Journal Articles)

Hurtado^C, L.A., C.A. Santamaria, M. Mateos, S. Taiti. Mitochondrial phylogeography of *Ligia italica* throughout the Mediterranean Basin (target journal TBD)

Conway, K., M. Mateos, R.C. Vrijenhoek. A new species of *Poeciliopsis* from northern Mexico. **Ichthyological Exploration of Freshwaters.**

Higareda, V., E. Martinez-Romero, C. Tamborindeguy, M. Mateos. Transcriptomics of a protective symbiosis (target journal TBD)

RESEARCH GRANTS, CONTRACTS, AND AGREEMENTS

Extramural Federal

2008-15 Phylogeography of non-vagile coastal isopods and the controversial history of the megadiverse Gulf of California-Baja peninsula region, **National Science Foundation**, \$570,000 - Role: co-PI (PI: L.A. Hurtado)

2008-14 Research Experiences for Undergraduates Supplemental Grant, **National Science Foundation**, \$43,500 - Role: co-PI (PI: L.A. Hurtado)

2008-11 Immune response of *Drosophila* against *Spiroplasma*, **National Institutes of Health** (R03), \$138,926 - Role: sole PI

2009-11 Diversity Supplement for undergraduate student Amanda Martínez, **National Institutes of Health** \$8,299 - Role: sole PI

1999-00 Gene leakage into a hybridogenetic fish of the genus *Poeciliopsis*, **National Science Foundation**, Dissertation Improvement Grant, \$7,560 - Role: "co-PI" (PI: R.C. Vrijenhoek; PhD advisor)

Extramural State

2016-19 Conservation genomics of the Critically Endangered Kemp's Ridley sea turtle (*Lepidochelys kempii*) **Texas Sea Grant** \$200,000 - Role: co-PI (PI-Hurtado)

2014-19 Assessment of Population Genetic Differentiation of the Blue Crab (*Callinectes sapidus*) in the Gulf of Mexico using Next Generation Sequencing Technologies, **Texas Sea Grant** \$292,874 - Role: co-PI (PI-Hurtado)

Internal Competitive

- 2014-15 Comprehensive Transcriptomics of a Defensive Mutualism, **Texas A&M Genomics Seed Grant**, \$28,000 - Role: PI (co-PI: C. Tamborindeguy)
- 2011-13 Comparative genomics of endosymbiotic bacteria (genus *Spiroplasma*) associated with *Drosophila* flies, **Whole Systems Genomics Initiative (WSGI) Catalyst Grant**, \$10,000 - Role: PI (co-PI: R. Aramayo)

Internal Competitive (International Collaboration)

- 2016-18 Survey of candidate RNA virus genomes in the Mediterranean fruit fly via small RNA-seq, **TAMU-CONACyT**, \$24,000 - Role: TAMU PI (TAMU co-PI: R. Aramayo; Mexico PI: P. Liedo; Mexico co-PIs: K. Guillén, J. Toledo)
- 2016-19 “Marine Genomics” **Yucatan Initiative Phase I proposal-Texas AgriLife**, \$15,000 - Role: TAMU co-PI (PI: L.A. Hurtado; co-PI: L. Fitzgerald)
- 2013-15 Exploring the use of endosymbiotic bacteria (genus *Wolbachia*) to control fruit fly pests of genus *Anastrepha* in Mexico, **TAMU-CONACyT**, \$24,000 - Role: TAMU PI (Mexico PI: P. Liedo; Mexico co-PIs: J. Toledo, K. Guillén)
- 2009-10 Characterization of endosymbiotic bacteria associated with fruit fly pests of *Anastrepha* genus in Mexico, **TAMU-CONACyT**, \$24,000 - Role: TAMU PI (Mexico PI: J. Toledo; Mexico co-PI: P. Liedo)

International Research Agreement

- 2012-16 Survey of endosymbiotic bacteria associated with *Anastrepha ludens*, *A. obliqua*, *A. serpentina* and *A. striata*, Research Agreement with **FAO/International Atomic Energy Agency (IAEA) Coordinated Research Project** "Use of Symbiotic Bacteria to Reduce Mass-Rearing Costs and Increase Mating Success in Selected Fruit Pests in Support of SIT Application" (provides US\$79,000 to collaborators in ECOSUR-Mexico, which will fund my collaborative research with them) - Role: US PI (Mexico PI: E. Hernández; Mexican co-PI: J. Toledo)

GRANTS IN REVIEW/IN PREPARATION

- 2020-22 Population genomics of important fisheries in the Gulf of Mexico, **Texas Sea Grant** ~\$200,000 - Role: co-PI (PI-Hurtado) [in preparation]

TEACHING

-Year class was offered and student evaluations on a scale of 0-5 are shown

-Departmental average student evaluations: 4.25-undergraduate; 4.72-graduate

Formal Courses (at TAMU unless otherwise noted)

Courses	Credit hours	Enrollment	Semester Taught	Student Evaluation Average
Undergraduate Courses				
Genetics (BIOL 3320-Univ. Texas El Paso)	3	~120	Fall 05	Not available
Genetics (BIOL 3320-Univ. Texas El Paso)	3	~120	Spr. 06	Not available
Wildlife and Fisheries Genetics (WFSC 489)	3	25	Fall 09	3.39
Wildlife and Fisheries Genetics (WFSC 489)	3	12	Fall 10	4.25
Fundamentals of Ecology ² (RENr 205)	3	248	Fall 11	3.96 (AM)
Fundamentals of Ecology ² (RENr 205)	3	174	Fall 11	4.15 (PM)
Fundamentals of Ecology ² (RENr 205)	3	220	Fall 12	4.07 (AM)
Fundamentals of Ecology ² (RENr 205)	3	164	Fall 12	4.25 (PM)
Fundamentals of Ecology ² (RENr 205)	3	208	Fall 13	4.15 (AM)
Fundamentals of Ecology ² (RENr 205)	3	200	Fall 13	4.13 (PM)
Fundamentals of Ecology ² (RENr 205)	3	258	Fall 15	3.88 (AM)
Fundamentals of Ecology ² (RENr 205)	3	215	Fall 15	4.10 (PM)
Fundamentals of Ecology ² (RENr 205)	3	250	Fall 16	3.7
Fundamentals of Ecology ² (RENr 205)	3	223	Fall 16	
Fundamentals of Ecology ² (RENr 205)	3	245	Fall 17	4.01 (AM)
Fundamentals of Ecology ² (RENr 205)	3	195	Fall 17	4.22 (PM)
Fundamentals of Ecology ² (RENr 205)	3	249	Fall 18	4.24 (AM)
Fundamentals of Ecology ² (RENr 205)	3	200	Fall 18	4.47 (PM)
Graduate Courses				
Quantitative Phylogenetics ¹ (WFSC 646/GENE 606/ENTO 606)	3	15	Spr. 07	³ 4.46(Lec); 4.52 (Lab)
Quantitative Phylogenetics ¹ (WFSC 646/GENE 606/ENTO 606)	3	9	Spr. 08	4.45
Molecular Evolution ⁴ (WFSC 648/GENE 648)	3	6	Fall 08	4.51
Quantitative Phylogenetics ¹ (WFSC 646/GENE 606/ENTO 606)	3	5	Spr. 09	4.85
Quantitative Phylogenetics ¹ (WFSC 646/GENE 606/ENTO 606)	3	14	Spr. 10	4.49
Molecular Evolution (WFSC 648/GENE 648)	3	14	Spr. 11	4.50
Quantitative Phylogenetics ¹ (WFSC 646/GENE 606/ENTO 606)	3	14	Spr. 12	4.51 (Lec); 4.52 (Lab)
Molecular Evolution (WFSC 648/GENE 648)	3	8	Spr. 13	4.61

Quantitative Phylogenetics ¹ (WFSC 646/ GENE 606/ ENTO 606)	3	10	Spr. 14	4.77
Phylogenetics and Comparative Biology ^{4,5} (EEBL 606)	1	7	Spr. 16	Not available
Quantitative Phylogenetics ¹ (WFSC 646/ GENE 606/ ENTO 606)	3	9	Spr. 16	4.73
Phylogenetics and Comparative Biology ⁶ (EEBL 606)	1	8	Spr. 16	Not available
Quantitative Phylogenetics ¹ (WFSC 646)	3	5	Spr. 18	4.85

Note: Per contract negotiation, I did not teach Fall 06. Also, per University Policy on Parental Teaching Load Redistribution, I did not teach Fall 07. On Faculty Development Leave Fall 2014 and Spring 2015.

¹ Co-taught with James Woolley (Dept. Entomology).

² Co-taught with Ben Wu (Dept. Ecosystem Science and Management). We each teach two sections for half of the semester; AM = morning; PM = afternoon.

³ Evaluations for my section were lost; values based on evaluations of cross-listed and co-taught section under Dr. James Woolley.

⁴ Newly created course.

⁵ Co-taught with Tom Olszewski (Dept. Geology and Geophysics)

⁶ Co-taught with Michelle Lawing (Dept. Ecosystem Science and Management)

Undergraduate Research and Directed Studies

WFSC-485, WFSC-491, GENE-491, VIBS-485, ENTO-491

(08 Amanda Martinez, 09 Hilary Pinkerton, 09-10 Amanda Haltom, 10-11 John E. Lewis, 11 Maria Mendoza; 12 Young-Zheng Sullivan, Caitlyn Winter, Lauryn Winter; 13 Max Goulas, 14 Paulino Ramirez; 15 Michael Liston, Lorena Interiano; 16 Paulino Ramirez, Brandy Chellete, Willow McGuane, John Harling, Alejandra Ibarra-Alvarez, Gretta Brong, Jasmin Ferreira, Austin Kelly, Sarah Gheida; 17 Nicholas Martinez, Gretta Brong, Jasmin Ferreira, Sarah Gheida, Haley Bivins, Anika Stankov, 18 Anika Stankov, Diandra Lombard, Savanah Bogard, Emile Fierro Morel, Sujay Singh, Daniela Mercado)

Undergraduate Writing Intensive

WFSC-484

(14 John Fuson; 15 Trestan Bryant, Lisa Bass, Sofia Adalis; 16 Antonia Nickleberry, Cody Wall, Montana Williams, Shonee Schattle; 17 Frances Stephens, Daisy Ortega, Sara Rothen, Alex Kane, Sarah Gheida, 18 Vincent Careta, Jack MacTough, Mikaylyn Barnett, Connor Unruh)

GENE 491-W (registered under Peterson; graded by me)

(15 Lorena Interiano, Damaris Farias; 16 Paulino Ramirez, Heather Barreda; 17 Gretta Brong, Haley Bivins, Nicholas Martinez)

Guest lectures

- 2018 ENTO 689 Professional Grant & Contract Writing Course (8 Nov 2018)
- 2015 UNAM-CCG Evolution and Population Genetics (taught one week of undergraduate course; April)
- 2014 UNAM-CCG Invited lecture to undergrad course on Application of Genomics (30 Nov)
- 2010 BIOL 214-503 Genes, Ecology and Evolution
- 2011 BIOL/MATH/WFSC285 Quantitative Biology Seminar

TEACHING GRANTS*Internal Competitive*

- 2018-19 Costa Rican Core Semester Program, **TAMU-Global Engagement Grant** \$80,000-*co-PI* (PI: D. Brightsmith; co-PIs: E. Gonzalez, J. Flaherty, J. Whitfield, C. Coates, H. Song, M. Mateos, C. Arcak, R. Vargas)
- 2015-17 Enhancing Blended And Active Learning In A Large Ecology Course, **TAMU-Competitive Proposals to Develop Core Curriculum Courses Enhanced with Technology for 2014**, \$75,000- *co-PI* (PI: B. Wu; co-PI: D. Brisque)
- 2008-09 High-Performance Computing for Eco- and Evo-informatics, **CA/ITF Competitive Grant**, \$30,000 + plus \$30,000 non-competitive match from COALS- *co-lead PI* (co-PIs: J. Woolley and R. Washington-Allen)

STUDENT SUPERVISION (*At Texas A&M University unless otherwise noted*)* *Advanced to Candidacy**Graduate Students, Chair or co-Chaired Committee*

Graduated (or completed all requirements)

- 2016-18 Paulino Ramirez (M.Sc., WFSC)
- 2015-18 Violet Ndeda (M.Sc., WFSC, Fulbright Fellowship, AAUW Fellowship), Co-Chair with L.A. Hurtado
- 2009-16 Humberto Martinez (Ph.D., WFSC; CONACyT scholarship; Tom Slick Fellowship)
- 2014-16 Chang Wang (M.Sc., WFSC), Co-Chair with L.A. Hurtado
- 2008-13 Jialei Xie (Ph.D., WFSC; Chinese Scholarship Council; TAMU-OGS Dissertation Fellowship).
- 2007-13 Nadisha Silva (Ph.D., BIOL), Co-Chair with James Erickson.

- 2007-13 Carlos Santamaria (Ph.D., WFSC, Sloan and Hispanic Leadership, Tom Slick Fellowship) Co-Chair with L.A. Hurtado.
- 2009-12 Eun-Jung Lee (M.Sc., WFSC), Co-Chair with L.A. Hurtado
- 2009-11 Nicholas Troendle (M.Sc., WFSC) Co-Chair with T. DeWitt [Diversity-Hispanic]
- Present
- 2018 Yunyang Wang (M.Sc., WFSC)
- 2016 *Victor Higareda (Ph.D., UNAM-Mexico; unofficial co-chair)

Graduate Students, Member of Committee, or Member of Comprehensive Exam Committee (EEB)

Graduated

- 2014-17 Carl Hjelman (Ph.D., ENTO)
- 2015-17 Reza Manshouri (M.Sc., CPSC)
- 2012-17 Renato Pires Machado (Ph.D., ENTO)
- 2015-16 Danielle Macedo (M.Sc., WFSC)
- 2012-16 Sarah Flanagan (Ph.D., BIOL)
- 2012-15 Josephine Antwi (Ph.D., ENTO)
- 2011-15 Meaghan Pimsler (Ph.D., ENTO)
- 2008-15 Shawn Hanrahan (M.Sc., ENTO)
- 2008-14 Ana DalMolin (Ph.D., ENTO)
- 2008-14 Ching-Ping Lu (Ph.D., TAMU-Galveston)
- 2011-13 Joseph Hancock (M.Sc., ENTO)
- 2009-12 Shuang Liu (M.Sc., WFSC)
- 2009-12 Laura Alberici (Ph.D., BIOL, Texas State University)
- 2009-10 Tomasz Koralewski (Ph.D., GENE)
- 2008-09 Chi-Cheng Wat (M.Sc., BIOL)
- 2007-10 Allison Pease (Ph.D., WFSC)
- 2006-12 Clay Small (Ph.D., BIOL)

Present

- 2018 Mateo Garcia (Ph.D., EEB; Comprehensive Exam Committee)
- 2018 Tara Kay Jones (Ph.D., ENTO)
- 2018 Fabian List (Ph.D., ENTO)
- 2018 Giovanni Madrigal (M.Sc., Marine Biology)
- 2017 Phillip Shults (Ph.D., ENTO)
- 2016 *Jocelyn Holt (Ph.D., ENTO)
- 2013 *Xochitl De La Rosa (Ph.D., WFSC)
- 2012 *G. Janelle Beaumont (Ph.D., Marine Biology IDP, TAMU-Galveston)

Undergraduate Student Research/Mentoring at TAMU only (abbreviated degree program in parenthesis)

Present

- 2018 Sujay Singh (BIOL)
- Savannah Bogard (GENE)
- Diandra Lombard (GENE)
- Daniela Mercado (WFSC)

Past

- 2018 Emile Fierro-Morel (ENTO)
- 2017-18 Haley Bivins (GENE)
- Anika Stankov (BIMS)
- 2017 Nicholas Martinez (BICH)
- Jasmin Ferreira (BESC)
- Alejandra Ibarra-Alvarez (BESC)
- Sarah Gheida (WFSC)
- 2016 Willow McGuane (BIMS)
- Austin Kelly (RLEM)
- John Harling (WFSC)
- Brandy Chelette (BESC)
- 2016-17 Gretta Brong (GENE)

- 2013-16 Paulino Ramirez (BICH; Aggie Research Scholars Program; Hispanic)
- 2015-16 Heather Barreda (GENE)
- 2015 Lorena Interiano (GENE)
Damaris Farias (GENE)
Katharina Moeller (BESC)
- 2014 Brittany Witt (BIMS)
Michael Liston (BESC)
Kellie Nguyen (BIMS)
- 2013-14 Mildred Wong (BIOL, Blinn Community College)
- 2013 Valeria Galvan (BIMS; Hispanic)
- 2012 Caitlyn Winter (WFSC; Aggie Research Scholars Program; Undergraduate Research Scholars Program) **Joint thesis** titled “Effect of iron on the defensive mutualism of *Drosophila* flies and *Spiroplasma* bacteria”
Lauryn Winter (WFSC; Aggie Research Scholars Program; Undergraduate Research Scholars Program) **Joint thesis** titled “Effect of iron on the defensive mutualism of *Drosophila* flies and *Spiroplasma* bacteria”
- 2013 Travis Bishop (ELEN; Aggie Research Scholars Program)
Alyssa Domingue (BIOL/POUL; Aggie Research Scholars Program)
Max Goulas (BIMS/ENTO; Aggie Research Scholars Program)
- 2012 Vojtech Tichavsky-Naranjo (General Studies; Hispanic)
Elizabeth Pawelek (MICR)
Laura Carlton (RENr; Hispanic)
- 2012 Young Zheng (BESC; began Professional Program in Biotechnology at TAMU Fall 2013)
- 2011 Maria Mendoza (WFSC; Hispanic; went to Master’s program at TAMU-WFSC, Gatlin lab)
Sarah Butler (BESC; began program in Environmental and Animal Rights Law at Lewis and Clark Law School; Fall 2013)
- 2011-12 Grecia Sanchez (NFSC; Hispanic)
- 2010-11 John Lewis (GENE; Honors)
- 2009 Sherene Sharath (MICR)

- 2009-10 Hillary Pinkerton (GENE)
- 2009-10 Bethany Tiner (BIOL; went to graduate school at University of Texas Medical Branch-Galveston; Dept. of Microbiology and Immunology, Chopra lab)
- 2009-10 Amanda Haltom (GENE, Undergraduate Research Scholars Program; Honors; went to graduate school at Univ. Texas Health Sciences Center) **Thesis** titled “A possible novel strategy for reproductive manipulation by an endosymbiont”
- 2008-10 Lacie Guenther (BESC)
- 2008-09 Amanda Martinez (BIMS; Hispanic; went to Vet School at TAMU)

POSTDOC SUPERVISION (At Texas A&M University unless otherwise noted)

- 2017-P Isabel Caballero (co-supervised with L.A. Hurtado)
- 2017-P Gerardo Amores (ECOSUR-Mexico; co-supervised with Karina Guillén)
- 2015-16 Wei Wang (co-supervised with L.A. Hurtado)

SERVICE AT TEXAS A&M UNIVERSITY

Department-level

- 2017-P Committee Member, Graduate Affairs
- 2016-P Committee Member, Animal Conservation Seminar Series
- 2016 Committee Member, Fisheries Management Lecturer Search
- 2016 Committee Member, Lecturer Search
- 2015-16 Committee Member, Vertebrate Behaviorist Search
- 2015-P Committee Member, Promotion and Tenure Committee
- 2010-12 Committee Member, Undergraduate Affairs
- 2009 Committee Member, Graduate Curriculum
- 2009-10 Committee Member, Ichthyologist Search
- 2007-08 Committee Member, Quantitative Ecologist Search, partial service
- 2007-09 Committee Member, Graduate Program Enhancement Fund

College-level

- 2017-18 Committee Member, Plant Systematist Faculty Search, Dept. Ecosystem Services and Management

- 2011 Keynote Speaker for Entomology Dept. Graduate Forum
- 2010 Judge for Entomology Dept. Graduate Forum
- 2008 Judge for AgriLife student poster presentation

University-level

**Interdisciplinary Program*

***Related to Participation of Minorities and/or Women*

- 2018-P Chair, Assessment and Reporting and member of Executive Committee (Ecology and Evolutionary Biology PhD Program)
Member, Genetics Faculty Membership Committee (Faculty of Genetics)
- 2016 *Judge for Ecological Integration Symposium student presentations
- 2015 Reviewer for TAMU-Graduate Merit Fellowship Applications
- 2015-7 *Seminar Chair and member of Executive Committee (Ecology and Evolutionary Biology PhD Program)
- 2013-15 *Seminar Chair and member of Executive Committee (Ecology and Evolutionary Biology IRP)
- 2012-13 *Undergraduate Research Grant Selection Committee member (NSF-IGERT, Applied Biodiversity Science Program)
- 2012 *Rotation Faculty Talks speaker (Genetics Graduate Program)
- 2011 **Participated in Faculty Focus group (ADVANCE Center)
- 2011 **Judge of posters at the 9th Annual Pathways Student Research Symposium
- 2011-12 **Parent Advisory Council Member, Texas A&M Becky Gates Children Center
- 2009 **Committee Member, Vice President and Associate Provost for Diversity Search Advisory Committee
- 2009 *Participated in three University “White Papers” (one selected) for Academic Master Plan
- 2009 *Organized session on “Phylogenetic Analysis” for the Bioinformatics Workshop of the TAMU Alliance for Bioinformatics, Computational Biology, and Systems Biology (ABCS)

2007 **Represented Mexican American Latino Faculty Association (MALFA) at new
 faculty orientation Exhibit Fair

OTHER PROFESSIONAL SERVICE

Consultant

2017 United Nations (International Atomic Energy Agency; IAEA), Vienna, Austria, May
 2017
 [served as an external consultant in the development of a Coordinated Research
 Project (CRP) focused on Colony Management of Insects for Sterile Insect Technique
 Application]

Associate Editor

2013-P Frontiers in Ecology and Evolution (Specialty Section: Phylogenetics, Phylogenomics,
 and Systematics) <https://loop.frontiersin.org/people/123411/overview>
2017-P BMC Evolutionary Biology [https://bmcevolbiol.biomedcentral.com/about/editorial-
 board](https://bmcevolbiol.biomedcentral.com/about/editorial-board)

Ad-hoc Reviewing Activity (<https://publons.com/author/1318129/>)

Journals (~5 papers reviewed annually; 10 in 2018):

Aquaculture
Biology Letters
Biological Journal of the Linnean Society
BMC Evolutionary Biology
BMC Microbiology
Conservation Biology
Copeia
Current Biology
Current Microbiology
Ecological Entomology
Ecology Letters
Environmental Microbiology
Evolution
FEMS Microbiology Ecology
Frontiers Microbiology
Genome Biology and Evolution
Genomics, Proteomics, and Bioinformatics
Heredity
J. of Biogeography
J. of Economic Entomology
Microbial Ecology
Molecular Ecology

Molecular Phylogenetics and Evolution
PLoS ONE
Proceedings of the Royal Society B: Biological Sciences
Trends in Ecology and Evolution
Western North American Naturalist

Reviewed one book chapter: “Evolution of unisexual reproduction” for book titled “Ecology and Evolution of Poeciliid Fishes”, due for publication by Chicago University Press in 2010

Grant Proposal Reviewing Activity:

Panelist:

NSF:

- “Molecular and Cellular Biology” (2017)
- “Evolutionary Processes” (2013)
- “Population and Evolutionary Processes” (2008)

External Reviewer:

NSF:

- “Dimensions of Biodiversity”
- “Population and Evolutionary Processes”
- “Molecular and Cellular Biology”
- “Undergraduate Research and Mentoring in Biological Sciences”

Other US National/State:

- John Templeton Foundation
- Kentucky Science & Engineering Foundation

Local:

- Texas Academy of Science

International:

- Czech Science Foundation
- CONACyT (Mexican Science and Technology Foundation)
- The Wellcome Trust/Sir Henry Wellcome Postdoctoral Fellowships

Tenure/Promotion packages reviewed

University of Haifa

*Other Activities****Related to Participation of Minorities*

- 2016 **Super Techno Science Night at Southwood Valley Elementary. Hands-on activities to demonstrate the biology of *Drosophila* and their parasitic wasps (English and Spanish).
- 2014 **Super Techno Science Night at Southwood Valley Elementary. Hands-on activities to demonstrate the biology of *Drosophila* and their parasitic wasps (English and Spanish).
- 2013 **Science presentations and hands-on activity for two classrooms of Third Grade Dual Language (English-Spanish) Program at College Hills Elementary School. Presentation in Spanish on life cycle, predation, and symbiosis using the *Drosophila-Spiroplasma*-parasitoid wasp system. Students performed experiment, and analyzed and interpreted results.
- **Super Techno Science Night at Southwood Valley Elementary. Hands-on activities to demonstrate the biology of *Drosophila* and their parasitic wasps (English and Spanish). Assisted by undergraduate student Valeria Galván.
- 2012 Co-organizer with Jen A. White, Raul F. Medina of Section Symposium “Bacterial Symbionts Mediating Arthropod Evolutionary Ecology: From Local Interactions to Global Diversity”, Entomological Society of America Annual Meeting.
- 2006 **Judge for Student Poster presentations at Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference.
- **Judge for Student Poster presentations at Univ. of Texas, El Paso, Research Expo.
- **The Aggie Latino Alliance Seminar, speaker “Studies of endosymbiotic relationships in evolutionary biology”.
- 2001-02 **Teaching Assistant, Marine Science, Arizona State University (four two-week intensive courses taught in Guaymas, Mexico).

INVITED TALKS

- 2018 “The influence of heritable symbionts in *Drosophila*-parasitoids interactions” 2018 ESA, ESC and ESBC Joint Annual Meeting, Vancouver, BC, Canada, 11-14 November
- 2016 “Transcriptomics of the *Spiroplasma* defense against parasitoids of *Drosophila*” Microbial Modulation of Insect Immunity Symposium. XXV International Congress of Entomology, September 25-30, 2016 Orlando, Florida, USA
- 2015 “Endosimbiontes de *Drosophila* defensivos contra avispa parasitoides”, Departamento de Biología, Universidad del Tolima (Ibagué, Tolima, Colombia)
- “Endosimbiontes de *Drosophila* defensivos contra avispa parasitoides”, El Colegio de la Frontera Sur (ECOSUR)-Unidad Tapachula (Chiapas, Mexico)

- “Understanding the mechanism of protection of *Spiroplasma* against parasitic wasps of *Drosophila*”, *Bacillus thuringiensis* Research Group, Biotechnology Institute, UNAM-Cuernavaca (Morelos, Mexico)
- 2014 “Symbiont-mediated defense against parasitoids in *Drosophila*”, Ecological Genomics Research Group, Center for Genomic Sciences, UNAM-Cuernavaca (Morelos, Mexico)
- 2013 “Symbiont-mediated defense against parasitoids in *Drosophila*”, Department of Entomology, University of Georgia (Athens, GA)
- 2012 “Distribution of *Spiroplasma*-mediated protection against parasitoids in *Drosophila*”, Section Symposium titled “Bacterial Symbionts Mediating Arthropod Evolutionary Ecology: From Local Interactions to Global Diversity”, Entomological Society of America 60th Annual Meeting, Knoxville, Tennessee, November 11–14 2012
- “Comparative Genomics of Endosymbiotic Bacteria (genus *Spiroplasma*) Associated with *Drosophila* Flies”, Annual Whole Systems Genomics Initiative Forum, Texas A&M University (College Station, TX)
- 2011 “An unexpected research career journey”, Keynote Address, Fourteenth Annual Graduate Student Forum, Department of Entomology, Texas A&M University (College Station, TX)
- 2010 “Insights into the association between *Drosophila* and heritable *Spiroplasma* bacteria”, Department of Entomology, Texas A&M University (College Station, TX)
- 2009 Phylogeography of Poeciliids in western Mexico, Livebearing Fishes Symposium, Annual Meeting of the American Society of Ichthyologists and Herpetologists (Portland, OR)
- 2006 "Identifying mechanisms responsible for biological diversification: vicariance and selection in *Poeciliopsis* fishes and bacterial endosymbiosis in *Drosophila* flies", Department of Wildlife and Fisheries, Texas A&M University (College Station, TX)
- "Identifying mechanisms responsible for biological diversification: vicariance and selection in *Poeciliopsis* fishes and bacterial endosymbiosis in *Drosophila* flies", Department of Biology, University of Illinois at Chicago (Chicago, IL)
- 2005 "Mechanisms for biological diversification: vicariance and selection in *Poeciliopsis* fishes and bacterial endosymbiosis in *Drosophila* flies", Department of Biological Sciences, University of Texas (El Paso, TX)
- "Mechanisms for biological diversification: vicariance and selection in *Poeciliopsis* fishes and bacterial endosymbiosis in *Drosophila* flies", Department of Biology, Mississippi State University (Starkville, MS)
- "Genomics for studies of host-symbiont associations", Department of Biological Sciences, State University of New York (Buffalo, NY)
- "Phylogeography and placental evolution of livebearing Poeciliid fishes", Department of Biological Sciences, State University of New York (Buffalo, NY)

- 2004 “Phylogeography and placental evolution of livebearing Poeciliid fishes”, Ecology and Evolutionary Biology Department, Tulane University (New Orleans, LA)
 “Mechanisms of Diversification in fish and flies”, Biology Department, Lehigh University, (Bethlehem, PN)
- 2002 “Evolution of *Poeciliopsis* fishes” Center for Insect Science, University of Arizona, (Tucson, AZ)
 “Filogeografía de peces del género *Poeciliopsis*” Centro de Investigación en Alimentación y Desarrollo, (CIAD), México: one seminar at each of three units (Hermosillo, Guaymas, and Mazatlán)
 “Evolution of livebearing fishes”, Institute for Strengthening the Understanding of Mathematics and Science- Minority Access to Research Careers Program, Arizona State University, (Tempe, AZ)

AWARDS, SCHOLARSHIPS, AND FELLOWSHIPS GIVEN TO MY STUDENTS

**Graduate students in my lab*

***Undergraduate students in my lab*

†Graduate students who were interns in (or recruits to) my lab at time of award

Conference Travel Awards

- 2018 **Victor Higareda*** Airfare and lodging support to attend the 2018 International Symbiosis Society Congress, Oregon State University, Corvallis, Oregon
Violet Ndeda* Registration fees plus EU\$400 student travel award for participation at AL8 – Speciation in Ancient Lakes, Entebbe, Uganda
- 2014 **Humberto Martínez*** Airfare and lodging support to attend Second meeting of FAO/IAEA Coordinated Research Project "Use of Symbiotic Bacteria to Reduce Mass-Rearing Costs and Increase Mating Success in Selected Fruit Pests in Support of SIT Application" in Bangkok, Thailand
- 2013 **Jialei Xie*** \$350 Graduate Student Presentation Grant funded by the Association of Former Students and the Office of Graduate Studies, Texas A&M University (declined)
Caitlyn Winter** \$1000 Undergraduate Scholarship to attend Entomological Society of America Annual Meeting, funded by Texas A&M University-Wildlife and Fisheries Sciences
Lauryn Winter** \$1000 Undergraduate Scholarship to attend Entomological Society of America Annual Meeting, funded by Texas A&M University-Wildlife and Fisheries Sciences
- 2012 **Humberto Martínez*** Airfare and lodging support to attend First meeting of FAO/IAEA Coordinated Research Project "Use of Symbiotic Bacteria to Reduce Mass-Rearing Costs and Increase Mating Success in Selected Fruit Pests in Support of SIT Application" in Vienna, Austria

- Humberto Martínez*** \$700 Ecology and Evolutionary Biology Program, Texas A&M University
- 2011 **Eun Jung Lee*** ~\$237 Graduate Program Enhancement Funds, Texas A&M University-Wildlife and Fisheries Sciences
- 2010 **Nadisha Silva***~\$1,000 Sixth International *Wolbachia* Conference, Asilomar, CA
Jialei Xie*~\$1,000 Sixth International *Wolbachia* Conference, Asilomar, CA
Igor Vilchez† ~\$1,000 Sixth International *Wolbachia* Conference, Asilomar, CA
Maura Palacios† Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Anaheim, CA
Eun Jung Lee* ~\$135 Graduate Program Enhancement Funds, Texas A&M University-Wildlife and Fisheries Sciences
Carlos Santamaria* ~\$300 American Genetics Association (AGA) Annual Symposium Travel Scholarship
- 2009 **Jialei Xie*** Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Dallas, TX
Carlos Santamaria* Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference, Dallas, TX
Nadisha Silva* \$500 Ecology and Evolutionary Biology Program, Texas A&M University
Carlos Santamaria* ~\$500, Graduate Program Enhancement Funds, Texas A&M University-Wildlife and Fisheries Sciences
- 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

- 2018 **Daniela Mercado**** \$2000 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences
- 2016 **Alejandra Ibarra**** \$500 Seeding Undergraduate Student Research, NSF Louis Stokes alliance for Minority Participation
Nicholas Martinez** \$500 Seeding Undergraduate Student Research, NSF Louis Stokes alliance for Minority Participation
Jasmin Ferreira** \$500 Seeding Undergraduate Student Research, NSF Louis Stokes alliance for Minority Participation
Sara Gheida** \$2000 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences

- Willow McGuane**** \$2400 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences
- Brandy Chellete**** \$2000 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences
- 2015 **Lorena Interiano**** \$2,700 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences
- Paulino Ramirez**** \$2,600 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences
- 2014 **Paulino Ramirez**** \$3,500 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences
- 2012 **Lauryn Winter**** \$3,500 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences
- Caitlyn Winter**** \$3,500 Undergraduate Student Research support, Department of Wildlife and Fisheries Sciences
- 2011 **Maura Palacios†** \$1,500 L.T. Jordan Fellows Program, MSC L.T. Jordan Institute for International Awareness, Texas A&M University
- Maura Palacios†** ~\$1,500 Award for Graduate Student Research, Society for Systematic Biology.

Scholarships/Fellowships for tuition/stipend

- 2016-17 **Violet Ndeda*** \$18,000 American Association of University Women (AAUW) International Master's/First Professional Degree Fellowship
- 2015-16 **Violet Ndeda*** Fulbright Fellowship (covers tuition, living expenses and round-trip Kenya-US)
- 2015-16 **Humberto Martinez*** Tom Slick Fellowship (2015-16 academic year), Texas A&M University (covers tuition and stipend)
- 2012 **Carlos Santamaria*** Tom Slick Fellowship (2012-13 academic year), Texas A&M University (covers tuition and stipend)
- Jialei Xie*** \$17,000 plus partial tuition. Dissertation Fellowship (2012-13 academic year), Texas A&M University
- Lauryn Winter**** Summer stipend from Mathematical Biology/Ecology/Physiology NSF-funded REU Program (TAMU-Mathematics Dept.)
- 2011 **Maura Palacios†** ~\$11,000. Exchange Program for Visiting Students, TAMU-CONACyT program
- 2010 **Humberto Martinez*** ~\$130,000 Full scholarship for PhD studies (4-years). Consejo Nacional de Ciencia y Tecnología (CONACyT; equivalent agency to NSF in Mexico)
- Gabriela Vigo†** ~\$81,000 Diversity Fellowship (3-years), Texas A&M University

- Gabriela Vigo**[†] \$7,000 Regent's Fellowship, College of Agriculture and Life Sciences, Texas A&M University
- Gabriela Vigo**[†] ~\$121,000 NSF Graduate Research Fellowship Program
- 2009 **Maura Palacios**[†] ~\$81,000 Diversity Fellowship (3-years), Texas A&M University
- Maura Palacios**[†] ~\$22,000 Minority PhD Program Scholarship, Alfred P. Sloan Foundation
- Maura Palacios**[†] \$7,000 Regent's Fellowship, College of Agriculture and Life Sciences, Texas A&M University
- Maura Palacios**[†] ~\$2,000 Hispanic Leaders in Agriculture, College of Agriculture and Life Sciences, Texas A&M University
- 2008 **Maura Palacios**[†] \$500 Prospective Student Travel Grant, Office of Graduate Studies, Texas A&M University
- 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
- Jialei Xie**^{*} Four-year stipend and health insurance, Chinese Scholarship Council

Prizes for presentations at conferences

- 2013 **Lauryn Winter**^{**} and **Caitlyn Winter**^{**} Third place undergraduate category for poster presentation "The effect of iron on the defensive mutualism of *Spiroplasma* bacteria and *Drosophila* flies", 14th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX
- 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
- 2009 **Lacie Guenther**^{**} First place undergraduate category for poster presentation "Population Dynamics of several strains of *Spiroplasma* in *Drosophila melanogaster*", 10th Annual 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

CONFERENCE PRESENTATIONS (oral and contributed unless otherwise noted)

*Graduate students in my lab

**Undergraduate students in my lab

†Graduate students who interned in my lab

^PPresenter; otherwise first author is presenter

^MGraduate student on whose committee I serve(d)

^{PD}Postdoctoral Mentee

2018

Higareda-Alvear, V.* , E. Martínez-Romero, and M. Mateos. Transcriptomic response of *Spiroplasma* to parasitic wasp attack in *Drosophila melanogaster*. 2018 International Symbiosis Society Congress, Oregon State University, Corvallis, Oregon, 15–20 July

Hurtado, L.A., D. Macedo*, I. Caballero^{PD}, M. Mateos. Population genetics inferences of the blue crab in the US based on microsatellites. International Crustacean Congress, Washington, DC, 22–25 April

Caballero, I.^{PD}, L.A. Hurtado, M. Mateos. Blue crab population genomics in the US using rad-seq. International Crustacean Congress, Washington, DC, 22–25 April

Ndeda VM*, Mateos M, Hurtado LA. Genetic characterization of small African barbs in the Lake Victoria drainage system, Kenya. SIAL8 – Speciation in Ancient Lakes, 29 July–3 August, Entebbe, Uganda <http://sial-online.org/conferences/sial8>

Hurtado, L.A., I. Caballero^{PD}, D. Macedo*, M. Mateos. Population Genetic Differentiation and Diversity of the Blue Crab in the Gulf of Mexico Inferred with Microsatellites and SNPs. Gulf States Marine Fisheries Commission, 69th Annual Meeting October 15-18, Isla Grand Beach Resort, South Padre Island, Texas

2017

Martinez*, H., R. Aramayo, M. Mateos^P. Comparative Genomics of *Spiroplasma poulsonii* strains associated with *Drosophila*. Texas Genetics Society Annual Meeting, TAMU, College Station, TX, 28 April (poster)

Mateos, M. A review of *Wolbachia* in tephritids with a pest control perspective: a focus on colony management. FAO/IAEA Consultants Meeting on Colony Management of Insects for Sterile Insect Technique Application, IAEA Headquarters, Vienna, Austria, 17-21 May

Higareda-Alvear*, V., E. Martínez-Romero, M. Mateos. Transcriptomic response of *Spiroplasma* to parasitic wasp attack in *Drosophila melanogaster*. Entomology 2017. Denver, CO, 5-8 November

Wu, XB^P, M. Mateos^P, D. Briske, X. Jaime*. Enhancing Blended and Active Learning in a Large Ecology Course, TAMU 13th Annual – 2017 Teaching with Technology Activating Student Learning, TAMU, College Station, TX, 1-2 March

Hurtado, L.A., M. Mateos, D. Macedo*, W. Wang^{PD}, I. Caballero^{PD}. Population genetics/genomics of the blue crab (*Callinectes sapidus*). 2nd Southeast Texas Evolutionary Genetics and Genomics Symposium, TAMUG, Galveston, TX, 2 June

Macedo*, D., Hurtado^P, L.A., M. Mateos. Population genetics of the blue crab *Callinectes sapidus* in the US and southern Brazil. Texas Genetics Society Annual Meeting, TAMU, College Station, TX, 28 April (poster)

De La Rosa, X.* , M. Mateos, D. Shaver, L.A Hurtado. Conservation genetics of the critically endangered Kemp's ridley sea turtle (*Lepidochelys kempii*): a temporal genetic assessment, 18th Ecological Integration Symposium, TAMU, College Station, TX, 24 March

De La Rosa, X.* , M. Mateos, D. Shaver, M. Reyes, L.A Hurtado. Genética de conservación de la tortuga lora: evaluación espacio-temporal, 1a. Reunión Internacional sobre Tortugas Marinas del Pacifico Oriental and 4a. Reunión Nacional sobre Tortugas Marinas en México, Morelia, Michoacan, Mexico 13 October

Caballero, I.^{PD}, M. Mateos, L.A. Hurtado. Using ddRAD sequencing to infer population structure in a high dispersal species, the blue crab (*Callinectes sapidus*), The 2nd Annual Texas A&M Postdoctoral Research, College Station, TX, 20 September (poster)

De La Rosa, X.* , M. Mateos, D. Shaver, M. Reyes, L.A Hurtado^P. Development of High-throughput 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. 2017 Texas A&M - CONACYT Research Symposium, Hacienda Santa Clara in San Miguel de Allende, Mexico, June 5-7

2016

Mateos, M., V.M. Higareda-Alvear, E. Martínez-Romero, C. Tamborindéguy. Transcriptomics of the *Spiroplasma* defense against parasitoids of *Drosophila*. Microbial Modulation of Insect Immunity Symposium. XXV International Congress of Entomology, Orlando, FL, 25-30 Sep (Invited) 10.1603/ICE.2016.107813

Mateos, M., L. Winter**, C. Winter**, V. Higareda-Alvear*, E. Martinez-Romero, J. Xie*. Independent origins of resistance or susceptibility of parasitic wasps to a defensive symbiont. Evolution Meetings, Austin, TX, 17-21 June

- Martinez-Montoya*, H., L. Interiano**, P. Ramirez**, M. Mateos. *Spiroplasma* promotes early oviposition and increases fecundity in naturally infected *Drosophila* species belonging to repleta species group. 9th International Wolbachia Conference, O'Reilly's Rainforest Retreat, Lamington National Park, Queensland, Australia, 28 June-3 July (poster)
- 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^{PD}, 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)
- Ramirez, P., H. Martinez, M. Mateos. Does *Spiroplasma moj* offer protection to host *Drosophila* flies from parasitoid wasps? 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
- Koralewski^M, T.E., M. Mateos, and K.V. Krutovsky. Phylogeny of major southern pines (subsection *Australes*, genus *Pinus*, family Pinaceae). PINEMAP Meeting, 24-25 May 2016, Warnell School, University of Georgia, Athens, Georgia
- Hurtado, L.A., M. Mateos. Diversidad criptica extraordinaria, problemas taxonómicos, e historias evolutivas interesantes en isópodos costeros mexicanos. X Reunión Nacional Alejandro Villalobos, Mérida, Yucatán, 24-28 October.
- Macedo^M, D., S. Vega**, E. Giddens**, M. Mateos, L.A. 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.
- Wang^{PD}, W., M. Mateos, L.A. 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.

2015

- Martinez*, H., B.M. Morán-Aceves, J. Toledo, P. Liedo, K. Guillén, M.A. Palomeque, M. Mateos^P. Attempts to transfer *Wolbachia* from *Anastrepha striata* to *Anastrepha ludens*. 3rd RCM on Use of Symbiotic Bacteria to Reduce Mass-rearing Cost and Increase Mating Success in Selected Fruit Pest in Support of SIT Application, 26-30 October 2015, Antigua, Guatemala (Invited)

- Hurtado, L.A., M. Mateos, S. Liu^M, G. Mattos, P.A. Haye, P.C. Paiva. Signatures of multiple transisthmian divergences in a marine coastal isopod (*Excireolana braziliensis*) with an amphi- American distribution. Evolution Meetings, Guarujá, Brazil, 26-30 June (Poster)
- Wang* C, M. Mateos and L.A. Hurtado. The origin of an invasive isopod (*Ligia exotica*). 16th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX.
- Macedo^M D, Wang W, M. Mateos and L.A. Hurtado^P. Population Genetics of the Blue Crab, *Callinectes sapidus*, in the Gulf of Mexico: Progress Report. Texas Sea Grant Poster Session, September 17, College Station, TX (Poster).
- De La Rosa-Reyna^M X, M. Mateos, D.J. Shaver, M.A. Reyes-López, L.A. Hurtado^P. 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, TX (Poster).

2014

- Martinez*, H., J. Toledo, P. Liedo and M. Mateos. Evaluation of *Wolbachia* wAstriB as potential cytoplasmic incompatibility agent in the Mexican fruit fly (*Anastrepha ludens*), International Atomic Energy Agency, 2nd RCM “Use of Symbiotic Bacteria to Reduce Mass-rearing Costs and Increase Mating Success in Selected Fruit Pests in Support of SIT Application”, Bangkok, Thailand, 6-10 May. (Invited)
- Martinez*, H., M. Mateos, and R. Aramayo. Genome sequencing of *Spiroplasma* strains from *Drosophila* flies and genomic comparison with previously sequenced insect and plants related strains. 15th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (poster)
- J. Xie*, Winter**, C., L. Winter**, and M. Mateos^P. Rapid spread of the defensive endosymbiont *Spiroplasma* in *Drosophila hydei* subjected to high parasitoid wasp pressure. Keystone Symposia “Mechanisms and Consequences of Invertebrate-Microbe Interactions”, Tahoe City, CA (poster)

2013

- Winter**, L., C. Winter**, J. Xie*, and M. Mateos. The effect of iron on the defensive mutualism of *Spiroplasma* bacteria and *Drosophila* flies. Entomological Society of America Annual Meeting, Austin, TX (poster)
- Winter**, C., J. Xie*, L. Winter**, and M. Mateos. Rapid spread of the defensive endosymbiont *Spiroplasma* in *Drosophila hydei* subjected to high parasitoid wasp pressure. Entomological Society of America Annual Meeting, Austin, TX (poster)
- Mateos, M. Taxonomic diversity of *Spiroplasma*-mediated protection of *Drosophila* against parasitoid wasps. Entomological Society of America Annual Meeting, Austin, TX (talk)
- Martínez*, H., R. Aramayo, and M. Mateos. Draft genome of *Spiroplasma* hyd-1: an endosymbiotic bacterium that protects *Drosophila* flies against parasitic wasps. Entomological Society of America Annual Meeting, Austin, TX (talk)

- Winter, L.**, C. Winter**, J. Xie*, and M. Mateos. The effect of iron on the defensive mutualism of *Spiroplasma* bacteria and *Drosophila* flies. 14th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (poster)
- Winter, L.**, C. Winter**, J. Xie*, and M. Mateos. The effect of iron on the defensive mutualism of *Spiroplasma* bacteria and *Drosophila* flies. Student Research Week, Texas A&M University, College Station, TX (poster)
- Martínez*, H., R. Aramayo, and M. Mateos. Preliminary assembly of the genome of *Spiroplasma* hyd-1: an endosymbiotic bacterium that protects *Drosophila* flies against parasitic wasps. 14th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (talk)
- Silva*, N., R. Aramayo, and M. Mateos. A look at the change in gene expression as a result of the association between maternally inherited endosymbionts and their *Drosophila* host. 14th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (talk)
- Xie*, J., L. Winter**, C. Winter**, and M. Mateos. Rapid spread of defensive endosymbionts *Spiroplasma* in *D. hydei* under a high parasitoid wasp pressure. 14th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (talk)
- Santamaria*, C.A., M. Mateos, and L.A. Hurtado. Phylogeography of *Ligia* isopods in the Caribbean and Eastern Pacific. 14th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (talk)
- Santamaria*, C.A., M. Mateos, and L.A. Hurtado. Phylogeography of *Ligia* isopods in the Caribbean and Eastern Pacific. Student Research Week, Texas A&M University, College Station, TX (talk)
- Hurtado, L.A. and M. Mateos. 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 (talk)
- 2012**
- Sword, G.A., J.A. Antwi, M. Mateos, and R.F. Medina. Variation in bacterial communities associated with the cotton fleahopper on two host plants across Texas, USA, 3rd International Lygus Symposium, Scottsdale, Arizona (poster)
- Antwi, J., M. Mateos, G. Sword and R.F. Medina. Geographic variation in symbiotic bacteria associated with the cotton fleahopper, Section Symposium titled “Bacterial Symbionts Mediating Arthropod Evolutionary Ecology: From Local Interactions to Global Diversity”, Entomological Society of America 60th Annual Meeting, Knoxville, Tennessee, November 11–14 2012 (invited talk)
- Antwi, J.A., G.A. Sword, M. Mateos, and R.F. Medina. Differences in bacterial communities associated with cotton fleahopper on two host plants across Texas. 97th Annual Meeting of the Ecological Society of America, Portland, OR (talk)
- Martinez*, H., J. Toledo, P. Liedo, and M. Mateos. Survey of heritable endosymbionts in Southern Mexican populations of the genus *Anastrepha*, FIRST FAO/IAEA RESEARCH COORDINATION MEETING ON “Use of Symbiotic Bacteria to Reduce Mass-Rearing

Costs and Increase Mating Success in Selected Fruit Pests in Support of SIT Application”, Vienna, Austria, May 21–25 2012 (invited talk)

Martinez*, H., J. Toledo, P. Liedo, and M. Mateos. Survey of heritable endosymbionts in Southern Mexican populations of the genus *Anastrepha*, 7th International *Wolbachia* Conference, St Pierre d’Oléron, France, June 7–12 2012 (poster)

Palacios†, M., M. Tobler, M. Mateos. Multilocus phylogeny and phylogeographic patterns in freshwater fishes from the subgenus *Mollienesia* (Poecilia, Poeciliidae: Cyprinodontiformes). Society for the Study of Evolution, Ottawa, Canada (talk)

2011

Mateos, M., Martinez*, H., Toledo J. and P. Liedo. Characterization of endosymbiotic bacteria associated with fruit fly pests of *Anastrepha* genus in Mexico. Texas A&M University-CONACyT Symposium (talk)

Xie*, J. and M. Mateos. Defensive mutualism: The effects of *Spiroplasma* and *Wolbachia*, two endosymbiotic bacteria of *Drosophila melanogaster*, on fly survival upon attack by two parasitoid wasps, Ecological Society of America Annual Meeting, Austin, TX (talk)

Lee*, E., Mateos, M., Hurtado, L. Phylogeography of supralittoral intertidal *Tylos* isopods in the Pacific region between central Mexico and southern California. Society for the Study of Evolution, Norman, OK (poster)

Palacios†, M., Meredith, R., Reznick, D., Mateos, M. Multilocus phylogeny and biogeography of Mexican freshwater fishes (*Poeciliopsis*: Poeciliidae). Society for the Study of Evolution, Norman, OK (poster)

Xie*, J., Tiner**, B., Silva*, N., Guenther**, L, Mateos, M. Defensive mutualism: the effects of *Spiroplasma* and *Wolbachia* on *Drosophila* survival upon attack by two parasitoid wasps. Society for the Study of Evolution, Norman, OK (talk)

Hurtado, L.A., Lee*, E., Mateos, M. Phylogeographic patterns of two intertidal isopods and the controversial geological history of the Gulf of California-Baja Peninsula region. Society for the Study of Evolution, Norman, OK (talk)

Mateos, M. and Hurtado, L.A. Comparison of Bayesian species trees methods with an empirical dataset: hydrothermal vent crabs (family Bythograeidae). Society for the Study of Evolution, Norman, OK (talk)

Xie*, J., B. Tiner**, I. Vilchez†, and M. Mateos. Effect of the *Drosophila* endosymbiont *Spiroplasma* on parasitoid wasp development and on the reproductive fitness of wasp-attacked fly survivors. 12th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (talk)

Lee*, E., Mateos, M., Hurtado, L.A. Phylogeography of supralittoral intertidal *Tylos* isopods in the Pacific region between central Mexico and southern California. 12th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (poster)

Martinez*, H., Mateos, M., Toledo J. and P. Liedo. Endosymbionts in *Anastrepha* flies (Diptera: Tephritidae) from south Mexico. 12th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (poster)

2010

- Hurtado, L.A., M. Mateos and C.A. Santamaria*. Filogeografía de isópodos del género *Ligia* en la región del Pacífico comprendida entre Guerrero, México y California, EEUU. VII Reunión Alejandro Villalobos, Cozumel, Quintana Roo, México (talk)
- Palacios[†], M., R. Meredith, M. Mateos, and D.N. Reznick. Phylogeography of the fish subgenus *Poeciliopsis* (Poeciliidae: Cyprinodontiformes). National Conference of the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Anaheim, CA, EUA. (poster)
- Lee*, E.J., L.A. Hurtado, and M. Mateos. Cryptic diversification of isopods of the genus *Tylos* in Western North America, Evolution Meetings, Portland, OR (poster)
- Palacios[†], M., R. Meredith, D. Reznick, M. Mateos. Phylogeography of the Subgenus *Poeciliopsis*, Evolution Meetings, Portland, OR (poster)
- Xie*, J., I. Vilchez[†], M. Mateos. *Spiroplasma* bacteria protect *Drosophila hydei* against the parasitic wasp *Leptopilina heterotoma*, Evolution Meetings, Portland, OR (talk)
- Santamaria*, C.A., Hurtado, L.A., and M. Mateos. Phylogeography of *Ligia* rocky intertidal isopods and the controversial geological history of the Gulf of California-Baja Peninsula region, Evolution Meetings, Portland, OR (talk)
- Xie*, J., I. Vilchez[†], and M. Mateos. *Spiroplasma* bacteria protect *Drosophila hydei* against the parasitic wasp *Leptopilina heterotoma*, Sixth International *Wolbachia* Conference, Asilomar, CA (poster)
- Silva* N.O., L.L. Guenther** and M. Mateos. The Influence of Bacterial Titers in the Male-killing Clade of *Spiroplasma*, Sixth International *Wolbachia* Conference, Asilomar, CA (poster)
- Vilchez[†], I., B. Tiner**, C. Salmeron** and M. Mateos. Sex ratio of *Drosophila hydei* infected with “non-male-killing” *Spiroplasma* bacteria, Sixth International *Wolbachia* Conference, Asilomar, CA (poster)
- Martínez-Montoya*, H., M. Mateos, J.P. Liedo-Fernández, J. Toledo. Incidence of bacterial endosymbionts in Mexican populations of fruit flies in the genus *Anastrepha*, 11th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (poster)
- Palacios[†], M., R. Meredith, D. Reznick, M. Mateos. Phylogeography of the Subgenus *Poeciliopsis*, 11th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (poster)
- Haltom**, A., N. Silva*, M. Mateos. *Spiroplasma*-induced Cytoplasmic Incompatibility in *Drosophila*, 11th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (poster)
- Vilchez[†], I., B. Tiner**, M. Mateos. Sex ratio of *Drosophila hydei* infected with “non-male-killing” *Spiroplasma* bacteria, 11th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (talk)

Xie*, J., I. Vilchez†, M. Mateos. *Spiroplasma* bacteria protect *Drosophila hydei* against the parasitic wasp *Leptopilina heterotoma*, 11th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (talk)

Lee*, E. J., L.A. Hurtado, M. Mateos. Cryptic diversification of isopods of the genus *Tylos* in Western North America, 11th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX

2009

Silva*, N, L. Guenther**, M. Mateos. Population Dynamics of several strains of *Spiroplasma* in *Drosophila melanogaster*, 50th Annual Drosophila Research Conference, Chicago, IL (poster)

Vilchez†, I., C. Salmeron**, A. Martinez**, M. Mateos. Sex ratio of *Drosophila hydei* infected with “non-male-killing” *Spiroplasma* bacteria, 50th Annual Drosophila Research Conference, Chicago, IL (poster)

Xie*, J., I. Vilchez†, M. Mateos. Effects of *Spiroplasma* infection on the susceptibility of *Drosophila hydei* to a parasitoid wasp, 50th Annual Drosophila Research Conference, Chicago, IL (poster)

Silva*, N., L. Guenther**, M. Mateos. Population Dynamics of several strains of *Spiroplasma* in *Drosophila melanogaster*, 10th Annual Ecological Integration Symposium, Texas A&M University, College Station, TX (poster) **Awarded first place undergraduate category**

Xie*, J., I. Vilchez†, M. Mateos. Examining the Effects of *Spiroplasma* Infection on the Susceptibility of *Drosophila hydei* to a Parasitoid Wasp, National Conference of the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Dallas, Texas, EUA (poster)

2006

Montes**, G. and M. Mateos. Survey of *Spiroplasma* infections in *Drosophila melanogaster* species group flies. Society for the Advancement of Chicanos and Native Americans in Science, Tampa, FL (poster)

2005

Mateos, M., T.A. Markow, N.A. Moran. Heritable endosymbionts of *Drosophila*, Conference of Beneficial Microbes, Lake Tahoe, NV (poster)

2003

Mateos, M. and T.A. Markow. Evolution of the ribosomal intergenic spacer in *Drosophila*, Evolution Meetings, Chico, CA (talk)

Mateos, M. and T.A. Markow. Evolution of the ribosomal intergenic spacer in *Drosophila*, 10th Annual poster Hexapodium, Center for Insect Science, University of Arizona, Tucson, AZ (poster)

2002

Mateos, M. and R.C. Vrijenhoek. Vicariance and dispersal of *Poeciliopsis* fishes across the Trans-Mexican Volcanic Belt. Evolution Meetings, Urbana, IL (talk)

Mateos, M., D. Reznick and R.C. Vrijenhoek. Multiple origins of extensive matrotrophy in the genus *Poeciliopsis*. II Simposio Internacional de Peces Vivíparos, Querétaro, México (poster)

Mateos, M. and R.C. Vrijenhoek. Phylogeography of the Subgenus *Poeciliopsis* (Poeciliidae: Cyprinodontiformes.) II Simposio Internacional de Peces Vivíparos, Querétaro, México (poster)

2001

Mateos, M., D. Reznick, and R.C. Vrijenhoek. Multiple origins of placenta-like organs in the genus *Poeciliopsis*. Evolution Meetings, Knoxville, TN (talk)

Mateos, M. and R.C. Vrijenhoek. Vicariance and dispersal of *Poeciliopsis* fishes across the Trans-Mexican Volcanic Belt. California Population and Evolutionary Group, Santa Barbara, CA (talk)

2000

Mateos, M., O.I. Sanjur, and R.C. Vrijenhoek. Genealogy of the fish genus *Poeciliopsis*. California Population and Evolutionary Group, Santa Cruz, CA (talk)

Mateos, M., O.I. Sanjur, and R.C. Vrijenhoek. Genealogical relationships among species of the genus *Poeciliopsis*. Desert Fishes Council, Death Valley, CA (talk)

1996

Hurtado, L., S. Castrezana, M. Mateos, D. McLaurin, M.K. Tello, J. Campoy, and T. Markow. Developmental stability and environmental stress in natural populations of *Drosophila pachea*. Environmental Biology of Deserts and Oceans Workshop, Guaymas, Sonora, Mexico (poster)

OTHER PROFESSIONAL DEVELOPMENT

- 2016 QUBES-Simbio Faculty Mentoring Network aimed at enhancing active learning in Ecology classes (participant)
- 2013 Workshop “Dossier Preparation”, TAMU AgriLife Associate Dean
- 2013 Symposium and Workshop on New Methods for Phylogenomics and Metagenomics The University of Texas at Austin <http://www.cs.utexas.edu/users/tandy/utexas-feb16-17.html>
- 2012 ADVANCE Scholar Symposium “Advancing STEM through the Participation of Women Faculty of Color”
- 2009 Workshop “Demystifying the Tenure and Promotion Process”, TAMU Dean of Faculties
- 2009 Workshop “Dossier Preparation”, TAMU AgriLife Associate Dean
- 2009 1st Workshop “Genome Bioinformatics”, TAMU “Genomics” group

- 2009 Workshop “Free Speech: Balancing Freedoms With Our Aggie Values”, TAMU Dean of Student Life
- 2008 Workshop “Networking – Its not just what you know but who you know that matters”, TAMU Women’s Faculty Network (WFN)
- 2008 Workshop “NSF for Research Experiences for Undergraduates (REU) Site and Supplement grants”, TAMU Office of Proposal Development
- 2007 Workshop “Teaching Portfolio”, TAMU Center for Teaching Excellence
- 2006 Workshop “Major research instrumentation grant”, TAMU Office of Proposal Development
- 2006 Women’s Faculty Network Brownbag on “Mentoring Graduate Students”
- 2006 Women’s Faculty Network Brownbag on “Parental Leave policies”
- 2006 Workshop “Funding for Diversity Initiatives”, TAMU Office of Proposal Development
- 2006 Junior Faculty Seminar at Prairie View, TAMUS Pathways to the Doctorate
- 2002 Drosophila Species Workshop, Tucson Drosophila Species Center, University of Arizona, Tucson, AZ
- 1998 Workshop on Molecular Evolution, Marine Biological Laboratories, Woods Hole, MA
- 1998 Population Genetics Data Analysis (Module 5), Summer Institute in Statistical Genetics, North Carolina State University, Raleigh, NC