

## Texas State University Vita

### I. Academic/Professional Background

A. Name: <b>David Rodriguez</b>	Title: Assistant Professor
Department of Biology	Tel: 512-245-1012
Texas State University	Fax: 512-245-8713
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### B. Educational Background

Degree	Year	University	Major Thesis/Dissertation
Ph.D.	2007	Texas Tech University	Zoology
M.S.	2002	Texas State University	Biology
B.S.	2000	Texas State University	Biology

### C. University Experience

Position	University	Dates
Assistant Professor	Texas State University	2015-Present
Assistant Research Professor	Texas State University	2015
Lecturer, Dept. Agriculture	Texas State University	2014
Postdoctoral Research Associate	Texas State University	2013 – 2014
Postdoctoral Teaching–Research Fellow	Cornell University	2013
Postdoctoral Research Fellow	Cornell University	2010 – 2012
Postdoctoral Teaching–Research Fellow	Texas Tech University	2007 – 2008
Lecturer	TTU Health Sciences Center	2007

### D. Relevant Professional Experience

Position	Entity	Dates
Project Director	El Centro College	2009
Teaching Assistant	Texas Tech University	2004 – 2007
Teaching Assistant	Texas State University	2000 – 2001

## II. Scholarly/Creative Activities

### A. Refereed Journal Articles (\*Student Authors)

24. Bovo, R, D Andrade, FL Toledo, AV Longo, D Rodriguez, CFB Haddad, KR Zamudio, and CG Becker. 2016. Physiological responses of Brazilian amphibians to an enzootic infection of the chytrid fungus *Batrachochytrium dendrobatidis*. *Diseases of Aquatic Organisms*. 117: 245–252.
23. Lambertini, C\*, CG Becker, TS Jenkinson\*, D Rodriguez, DS Leite, TY James, KR Zamudio, and LF Toledo. 2016. Local phenotypic variation in amphibian-killing fungus predicts infection dynamics. *Fungal Ecology*. 20:15-21.
22. Becker, CG, D Rodriguez, Lambertini, C\*, LF Toledo, and CFB Haddad. 2015 online. Historical dynamics of *Batrachochytrium dendrobatidis* in Amazonia. *Ecography*. DOI: 10.1111/ecog.02055.

21. Becker, CG, D Rodriguez, AV Longo, LF Toledo, C Lambertini\*, DS Leite, CFB Haddad, and KR Zamudio. 2015 online. Deforestation, host community structure, and amphibian disease risk. *Basic And Applied Ecology*. DOI:10.1016/j.baae.2015.08.004.
20. Becker, CG, D Rodriguez, LF Toledo, AV Longo\*, C Lambertini\*, DT Corrêa\*, DS Leite, CFBB Haddad, and KR Zamudio. 2014. Partitioning the net effect of host diversity on an emerging amphibian pathogen. *Proceedings of the Royal Society B*. 281(1795): 20141796.
19. Lenker, MA\*. AE Savage\*, CG Becker\*, D Rodriguez and KR Zamudio. 2014. *Batrachochytrium dendrobatidis* infection dynamics vary seasonally in Upstate New York. *Diseases of Aquatic Organisms*. 111, 51-60.
18. Rodriguez, D, CG Becker\*, NC Pupin\*, CFB Haddad, and KR Zamudio. 2014. Long-term endemism of two highly divergent lineages of the amphibian-killing fungus in the Atlantic Forest of Brazil. *Molecular Ecology*. 23(4): 774-787.
17. Rosenblum, EB, T James, KR Zamudio, TJ Poorten, D Ilut, D Rodriguez, J. Eastman, K Richards-Hrdlicka\*, S Joneson, T Jenkinson\*, J Longcore, G Parra Olea, LF Toledo, ML Arellano, E Medina, S Resprepo, SV Flechas, L Berger, C Briggs, and J Stajich. 2013. Complex history of the amphibian-killing chytrid fungus revealed with genome resequencing data. *PNAS*. 110(23): 9385-9390.
16. Lambertini, C\*, D Rodriguez, FB Brito, D da Silva Leite, LF Toledo. 2013. Diagnóstico do fungo Quitrídio: *Batrachochytrium dendrobatidis*. *Métodos em Herpetologia*. 2:12-16.
15. Longo, AV\*, D Rodriguez, and KR Zamudio. 2013. ITS1 copy number varies among *Batrachochytrium dendrobatidis* isolates: Implications for qPCR zoospore detection. *PLoS ONE* 8(3): e59499.
14. Becker, CG\*, D Rodriguez, AV Longo\*, AL Talaba, and KR Zamudio. 2012. Disease risk in temperate amphibian populations is higher at closed-canopy sites. *PLoS ONE* 7(10): e48205.
13. González-Trujillo, R\*, D Rodriguez, A González-Romero, MRJ Forstner, LD Densmore III, and VH Reynoso 2012. Testing for hybridization and assessing genetic diversity in Morelet's crocodile (*Crocodylus moreletii*) populations from central Veracruz. *Conservation Genetics*. 13: 1677-1683.
12. Rodriguez, D, AV Longo\*, and KR Zamudio. 2012. Magnetic-hybridization capture and whole genome amplification of *Batrachochytrium dendrobatidis* genomic DNA. *Journal of Microbiological Methods*. 90: 156-159.
11. Rodriguez, D, MRJ Forstner, DL McBride\*, LD Densmore III, and JR Dixon. 2012. Low genetic diversity and evidence of population structure among subspecies of *Nerodia harteri*, a threatened water snake endemic to Texas. *Conservation Genetics*. 13: 977-986.
10. Vandewege, MW\*, D Rodriguez, JP Weaver\*, TD Hibbitts, MRJ Forstner, and LD Densmore III. 2012. Comparative population genetic variation of *Elaphe bairdi* and *Elaphe obsoleta* including evidence of hybridization inferred from microsatellites and mitochondrial DNA. *Journal of Herpetology*. 46: 56-63.
9. Velo-Antón, G, D Rodriguez, AE Savage\*, G Parra-Olea, KR Lips, and KR Zamudio. 2012. Amphibian-killing fungus loses genetic diversity as it spreads across the New World. *Biological Conservation*. 146: 213-218.
8. Rodriguez, D, MRJ Forstner, PE Moler, JA Wasilewski, MS Cherkiss, and LD Densmore III. 2011. Effect of human-mediated migration and hybridization on the recovery of the American crocodile in Florida (U.S.A.). *Conservation Genetics*. 12: 449-459.
7. Panasci, M\*, W Ballard, S Breck, D Rodriguez, LD Densmore III, DB Webster, and RJ Baker. 2011. An evaluation of fecal DNA preservation techniques and effects of sample age and diet on genotyping success. *The Journal of Wildlife Management*. 75: 1616-1624.
6. Salcedo, NJ\*, D Rodriguez, RE Strauss, and RJ Baker. 2011. The Fitzcarrald Arch: a vicariant event for *Chaetostoma* (Siluriformes: Loricariidae) speciation? *Copeia*. 4: 503-512.
5. Rodriguez, D, JR Cedeño-Vázquez\*, MRJ Forstner, and LD Densmore III. 2008. Hybridization between *Crocodylus acutus* and *Crocodylus moreletii* in the Yucatan Peninsula: II. evidence from microsatellites. *Journal of Experimental Zoology*. 309A: 674-686.
4. Cedeño-Vázquez, JR\*, D Rodriguez, S Calmé, JP Ross, LD Densmore, and JB Thorbjarnarson. 2008. Hybridization between *Crocodylus acutus* and *Crocodylus moreletii* in the Yucatan Peninsula: I.

evidence from mitochondrial DNA and morphology. *Journal of Experimental Zoology*. 309A: 661-673.

3. Weaver, J\*, D Rodriguez, M Venegas-Anaya\*, JR Cedeño-Vázquez\*, MRJ Forstner, and LD Densmore III. 2008. Genetic characterization of captive Cuban crocodiles (*Crocodylus rhombifer*) and evidence of hybridization with the American crocodile (*Crocodylus acutus*). *Journal of Experimental Zoology*. 309A: 649–660.
2. McVay, JD\*, D Rodriguez, TR Rainwater, SG Platt, ST McMurry, MRJ Forstner, and LD Densmore III. 2008. Evidence of multiple paternity in Morelet's crocodile (*Crocodylus moreletii*) in Belize, CA, inferred from microsatellite markers. *Journal of Experimental Zoology*. 309A: 643-648.
1. Tarsitano, SF, AP Russell, D Rodriguez, D Sandoval, and L Stegall. 2000. Aerodynamic evidence for the evolution of proto-feathers and avian sister group relationships. *Quarterly Journal of the Dinosaur Society* 4:24-25.

### **B. Refereed Journal Articles in Review (\* Student Authors)**

2. Rodriguez-Brenes, S\*, D Rodriguez, R Ibáñez, MJ Ryan. In Review. Spatial and temporal distribution of *Batrachochytrium dendrobatidis* (Bd) in a resistant species in the lowlands of Panama. PLoSONE.
1. Jenkinson, TS\*, C Betancourt Román\*, C Lambertini\*, A Valencia-Aguilar\*, D Rodriguez, C Nunes-de-Almeida\*, J Ruggeri\*, A Belasen\*, DS Leite, KR Zamudio, J Longcore, LF Toledo, and T James. In Review. Amphibian-killing chytrid in Brazil comprises both stable endemic and recently expanded populations. *Molecular Ecology*.

### **C. Publication Recognition**

2. Guimarães, M. Pesquisa FAPESP. O inimigo ao lado: Comum em regiões tropicais do planeta, fungo letal para anfíbios pode ser nativo da mata atlântica. June 2014. (Article featured Rodriguez et al. 2014, Refereed Journal Article 19)
1. Lips, K. A tale of two lineages: unexpected, long-term persistence of the amphibian-killing fungus in Brazil. January 29, 2014. (Article featured Rodriguez et al. 2014, Refereed Journal Article 19)

### **D. Miscellaneous Publications**

2. Becker, CG\*, D Rodriguez, KR Zamudio 2013. The Brazilian Adirondacks? *Science*. 340: 428.
1. Rodriguez, D, J Duvall, and MRJ Forstner. 2006. Geographic Distribution. *Graptemys psuedogeographica kohnii*. *Herpetological Review*. 37(4): 492.

### **E. Book Reviews**

None

### **F. Papers Presented at Professional Meetings (\* Student Authors)**

21. Shahrokhi, G\*, MC Green, D Rodriguez, B Ballard, E Palacios. 2015 An examination of gene flow between distinct management units of the Reddish egret (*Egretta rufescens*). Waterbird Society Meeting, Bar Harbor, Maine, USA
20. Rodríguez-Brenes, S\*, R Ibáñez, D Rodriguez, MJ Ryan. 2015. Distribución espacio-temporal de *Batrachochytrium dendrobatidis* en ranas Túngara (*Physalaemus pustulosus*) en Panamá. X Congreso Latinoamericano de Herpetología.
19. Rodriguez, D., MRJ Forstner, M Venegas-Anaya, JP Weaver, Y Milian-Garcia\*, LD Densmore III. 2014. Conservation implications and enigmatic genetic questions raised by *Crocodylus acutus*. 23rd Working Meeting of the IUCN-SSC *Crocodile Specialist Group*.

18. Rodriguez, D, CG Becker\*, NC Pupin\*, CFB Haddad, and KR Zamudio. 2012. Historical distribution of the frog-killing fungus in the Brazilian Atlantic Forest. World Congress of Herpetology. Vancouver, Canada.
17. Rodriguez, D, CG Becker\*, NC Pupin\*, CFB Haddad, and KR Zamudio. 2012. Population genetics of the frog-killing fungus in Brazil. 9<sup>th</sup> Annual Bouchet Conference on Diversity in Graduate Education, Yale University.
16. Rodriguez, D, JP Weaver\*, JR Cedeño-Vasquez, MJR Forstner, and LD Densmore III. 2010. Intra- and inter-specific hybridization in New World crocodiles (Genus: *Crocodylus*). 34<sup>th</sup> Annual Ecology and Evolutionary Biology Graduate Student Symposium, Cornell University.
15. Rodriguez, D, 2008. Hybridization between New World crocodiles: An example from *C. acutus* in Mexico and Florida. 3rd Workshop on the Cuban crocodile, Playa Larga, Cuba.
14. Rodriguez, D, JR Cedeño-Vázquez\*, MRJ Forstner, and LD Densmore III. 2008. Using microsatellites to describe hybridization between *Crocodylus acutus* and *Crocodylus moreletii* in the Yucatan Peninsula. Crocodylian Specialist Group, Santa Cruz, Bolivia.
13. Rodriguez, D, J.R Dixon, J. D. McVay\*, M.R.J. Forstner, and L.D. Densmore III. 2008. Population genetics of the Concho water snake (*Nerodia paucimaculata*): In comparison to Harter's water snake (*Nerodia harteri*) and the blotched water snake (*Nerodia erythrogaster transversa*. Texas Academy of Science, Corpus Christi, Texas.
12. Weaver, J\*, D Rodriguez, M Venegas-Anaya\*, JR Cedeño-Vázquez\*, MRJ Forstner, and LD Densmore III. 2008. Incongruence of species designations as determined by mitochondrial and nuclear DNA: an example from the Cuban crocodile (*Crocodylus rhombifer*). Texas Academy of Science, Corpus Christi, Texas.
11. Vandewege, MW\*, D Rodriguez, JP Weaver\*, TD Hibbitts, MRJ Forstner, and LD Densmore III. 2008. Population genetics of the Texas rat snake (*Elaphe obsoleta lindheimeri*). Texas Academy of Science, Corpus Christi, Texas.
10. Rodriguez, D, JR Cedeño-Vázquez\*, MRJ Forstner, and LD Densmore III. 2007. Genetic structure of the American crocodile (*Crocodylus acutus*) in Florida and evidence of hybridization inferred from mitochondrial and nuclear markers. The 3rd International Workshop on Crocodylian Genetics and Genomics. Panama City, Panama.
9. Rodriguez, D, MRJ Forstner, P Moler, and LD Densmore III. 2007. Using genetic markers to detect hybridization zones between the American crocodile (*Crocodylus acutus*) and Morelet's crocodile (*Crocodylus moreletii*) in the Yucatan Peninsula. The 3rd International Workshop on Crocodylian Genetics and Genomics. Panama City, Panama.
8. McVay, J\*, D Rodriguez, MRJ Forstner and LD Densmore. 2007. Evidence of multiple paternity in Morelet's crocodile (*Crocodylus moreletii*) from Belize inferred from microsatellite markers. The 3rd International Workshop on Crocodylian Genetics and Genomics. Panama City, Panama.
7. Weaver, J \*, D Rodriguez, MRJ Forstner and LD Densmore. 2007. Genetic characterization of the Cuban crocodile (*Crocodylus rhombifer*) using zoological samples. The 3rd International Workshop on Crocodylian Genetics and Genomics. Panama City, Panama.
6. Rodriguez, D, MRJ Forstner and LD Densmore. 2006. Low allelic variation in wild populations of two endangered species of crocodile: *Crocodylus acutus* and *Crocodylus moreletii*. Southwestern Association of Naturalists, Colima, Mexico.
5. Rodriguez, D, 2005. Multiple paternity in the American crocodile (*Crocodylus acutus*): A survey from Turkey Point Power Plant. Joint Meeting of Ichthyologists and Herpetologists. Tampa, FL.
4. Tarsitano, S.F., K.L. Lavalli, F. Horne, and D. Rodriguez. 2002 Spiny lobsters: A model for horn development in ceratopsian dinosaurs. 31st Annual Benthic Ecology Meeting, Florida State University.
3. Plummer, C\*, F Horne, SF Tarsitano, and D Rodriguez. 2001. Insights into the mineralization of bone. Texas Academy of Sciences. Texas State University.
2. Rodriguez, D, and SF Tarsitano. 2000. Comparative myology of the crocodylian forelimb, 5th European Workshop on Vertebrate Paleontology. Karlsruhe, Germany.

1. Rodriguez D and SF Tarsitano. 2000. Comparative study of pectoral musculature of Alligatorinae, Crocodylinae, and Gavialinae. Texas Academy Of Science. Texas A&M University at Kingsville.

### **G. Invited Talks**

8. Rodriguez, D, 2014. Exploring microbial ecology and diversity through pathogen detection, experimental infections, and genomics. Department of Biology, Texas State University.
7. Rodriguez, D, 2014. Evaluating competing hypotheses for the origin of *Batrachochytrium dendrobatidis* using retrospective genetic surveys and pathogen dynamics. Department of Biology, Texas State University.
6. Evaluating competing hypotheses for the origin and pathogen dynamics of *Batrachochytrium dendrobatidis* in light of retrospective surveys and genomic data. Ecology of infectious diseases in wildlife BIO5424B, Department of Biology, Texas State University.
5. Rodriguez, D, 2013. Leveraging technology and faculty research to facilitate inquiry-based learning. Department of Biological Sciences, Clemson University.
4. Rodriguez, D, CG Becker, NC Pupin, CFB Haddad, and KR Zamudio. 2013. Spatiotemporal distribution of *Batrachochytrium dendrobatidis* within the Brazilian Atlantic Forest. Universidade Estadual de Campinas, Campinas, Brazil.
3. Rodriguez, D, 2012. Creepy, Crawly, Deadly, Slimy Things: A Tale of Academic Serendipity. Institute for Biology Teachers, Cornell University.
2. Rodriguez, D, 2008. The effect of hybridization on endangered species conservation: Using New World crocodiles as a model system. Cornell Herpetological Society, Cornell University.
1. Weaver, JP\*, D Rodriguez, M Venegas-Anaya\*, JR Cedeño-Vázquez\*, MRJ Forstner, and LD Densmore III. 2008. Using molecular markers to identify hybrids among captive populations of the Cuban crocodile (*Crocodylus rhombifer*). Crocodylian Advisory Group Meeting. Charleston, South Carolina.

### **H. Research Awards**

None

### **I. Grants and Contracts**

#### **Pending External Grants**

None

#### **Funded External Grants**

- |           |   |
|-----------|---|
| 2016–2018 | Evaluating the effectiveness of freshwater mussel mitigation strategies. Texas Department of Transportation. Co-PI (\$266,442)  |
| 2015–2016 | Seasonal vertical migration of unionid mussels. Texas Parks and Wildlife. Co-PI (\$53,802)  |
| 2015      | GENI-ACT workshop at McLennan Community College, Waco, TX. Travel Award.  |
| 2014–2017 | Campus Cyberinfrastructure–Network Infrastructure and Engineering Program. CC*IEE Networking Infrastructure: Enabling and Improving Data-Driven Research at Texas State University. NSF. Senior Personnel (\$499,896) |
| 2014      | Detecting occurrence of Houston toads in Robertson County with development of avoidance and minimization measures for energy industry exploration and production. Benchmark, Inc. Co-PI (\$440,671)                   |
| 2014      | Houston toad research and management during roadway recovery and restoration operations in response to the Bastrop Complex Fire of 2011 by Bastrop County, Texas. PI (\$150,000)                                      |

- 2013 Using an extensively documented and validated habitat suitability model for conservation management of the Texas tortoise, *Gopherus berlandieri*, defining its status in the coastal prairies and eastern range. Co-PI (\$40,137)
- 2010–2012 National Science Foundation Postdoctoral Fellowship (\$189,000)
- 2008 Research Grant, Secretaria Nacional de Ciencia, Tecnología y Innovación, Panama (\$5,000)
- 2006 Predoctoral Summer Fellowship, Texas State University Graduate School (\$11,000)
- 2006 Travel Grant, Southwestern Association of Naturalists (\$500)
- 2001–2004 Graduate Research Fellowship, National Science Foundation. (\$66,000)

### **Submitted But Not Funded External Grants**

- 2014 Preliminary Proposal: Wetlands in the sky: Quantifying amphibian and microbial community biodiversity using bromeliads as in situ microcosms to test ecosystem disturbance effects. PI. National Science Foundation (\$350,000)
- 2014 Using curriculum enrichment and experiential training in molecular genetics to increase underrepresented group participation in STEAM Fields. PI. USDA-NIFA. (\$999,996)
- 2014 Using habitat suitability modeling and road surveys to infer critical habitat for the Desert Massasauga. PI. Texas Comptroller RFP 207i for Endangered Species (\$120,000)
- 2014 Using an extensively documented and validated habitat suitability model for conservation management of the Spot-tailed Earless Lizard (*Holbrookia lacerata*). Co-PI. Texas Comptroller RFP 207i for Endangered Species (\$144,856)
- 2014 Developing techniques to efficiently detect Texas mussels with environmentally sampled DNA, enabling population and habitat delineation. Texas Comptroller RFP 207i for Endangered Species Co-PI (\$92,962)

### **Funded Internal Grants**

- 2016 Research Enhancement Program, Texas State University (\$7984)
- 2011–2012 Research Grant, Cornell Atkinson Center for a Sustainable Future (\$6,000)
- 2006 Summer Dissertation Research Grant, Texas Tech University Graduate School (\$2,325)
- 2003–2006 Travel Grant, Texas Tech University Association of Biologists (\$1600)
- 2005 Travel Grant, Texas Tech University Graduate School (\$750)
- 2005 Travel Grant, Texas Tech University Department of Biological Sciences (\$350)
- 2004 HHMI Graduate Teaching Fellows Program (\$200)
- 2001 South Texas Doctoral Bridge Fellowship, Texas State University Graduate School (\$6,000)

## **III. Teaching**

### **A. Teaching Honors and Awards**

None

### **B. Courses Taught**

#### **2016 Texas State University**

Undergraduate courses:

Undergraduate Research (BIO4299), Texas State University, Department of Biology

Graduate courses:

Applied Bioinformatics (BIO7360Y), Texas State University, Department of Biology

### **2015 Texas State University**

Undergraduate courses:

Mycology (BIO3430), Texas State University, Department of Biology

Graduate courses:

Research Experiences (BIO5314), Texas State University, Department of Biology

Mycology (BIO7360W), Texas State University, Department of Biology

### **2014 Texas State University**

Undergraduate courses:

Genetics (BIO2450), Texas State University, Department of Biology

Computer Applications in Agriculture (AG2390), Texas State University, Department of Agriculture

### **2013 Cornell University**

Undergraduate courses:

Instructor, Evolutionary Biology by Distance Learning, Cornell University, Department of Ecology and Evolutionary Biology

### **2004-2008 Texas Tech University**

Graduate courses:

Lecturer, Molecular Cell Biology, Texas Tech University Health Sciences Center, Molecular Pathology Program

Undergraduate courses:

Lecturer, Human Anatomy and Physiology, Department of Biological Sciences

Teaching Assistant, Biology I, Department of Biological Sciences

Teaching Assistant, Biology of Animals, Environmental Problems, Department of Biological Sciences

Volunteer Teaching Assistant, Field Herpetology, Texas Tech University–Junction

### **2000-2002 Texas State University**

Teaching Assistant, Comparative Vertebrate Anatomy, Department of Biology

Teaching Assistant, Human Anatomy and Physiology, Department of Biology

### **C. Graduate Theses/Dissertations Graduate Students Supervised:**

Thomas Marshall (M.S. Population and Conservation Biology, 2015 - exp. 2017). Population genetics of *Batrachochytrium dendrobatidis* in Texas. Texas State University

### **D. Supervised Graduate Student Accomplishments (Awards and Scholarships):**

None

### **E. Graduate Student Committees:**

Golya Shahrokhi (M.S. 2015) An examination of gene flow among distinct management units of the reddish egret (*Egretta rufescens*). Texas State University

### **F. Current Graduate Student Committees:**

Zach Adcock (Ph.D. exp.) Texas State University

Andrea Villamizar Gomez (Ph.D. exp.) Texas State University

Andrew McLaren (Ph.D. exp.) Texas State University

Shashwat Sirsi (Ph.D. exp.) Texas State University

Kathryn Michelle Benavidez (Ph.D exp.) Texas State University  
Sara Robertson (M.S. exp.) Texas State University  
Bianca Hernandez (M.S. exp.) Texas State University  
Abirama Sundari Ganesan (M.S. exp.) Texas State University  
Stephen Harding (M.S. exp.) Texas State University

#### **G. Undergraduate Projects Supervised:**

##### **Texas Tech University**

2. Jeremy Weaver. Conservation genetics of the Cuban crocodile (2007-2009)
1. Michael Vandewege. Population genetics of rat snakes (2008-2009)

#### **H. Courses Prepared and Curriculum Development**

- 2016 Molecular Field Techniques, Texas State University, Department of Biology  
2016 Applied Bioinformatics, Texas State University, Department of Biology  
2015 Mycology, Texas State University, Department of Biology  
2013 Evolutionary Biology by Distance Learning Cornell University, Department of Ecology and Evolutionary Biology

#### **I. Funded External Teaching Grants**

None

#### **K. Submitted but not Funded Internal Teaching Grants**

None

#### **IV. Service**

##### **A. Committees**

University Committees:

None

College of Science Committees:

None

Departmental Committees and other Service:

2. Marilyn Johanson Graduate Endowment in Biology Review Committee (2015)
1. Curriculum Committee, Biological Sciences, Texas Tech University (2007-2008)

Departmental Job Search Committees:

None

##### **B. Community Service:**

4. Guided HHMI undergraduate research fellows on herpetological field trips. (2012)



3. TTU/HHMI Graduate Teaching Scholar. Guided HHMI undergraduate research fellows on herpetological field trips. (2004 – 2006)
2. Promoted the biological sciences and recruited minority students using reptiles as demonstration subjects at K-12 schools, public science centers, and campus presentations. (1997 – Present)
1. Mentored at-risk youth through after-school homework programs, university tours, and research involvement. (1999 – 2002)

**C. Professional Service:**

8. Trained undergraduates in genetic methods. Royal University of Phnom Penh, Cambodia (2015).
7. Contributed to the establishment of the Molecular Genetics Laboratory at the Royal University of Phnom Penh, Cambodia (2015).
6. Trained visiting scholar Sofia Rodriguez (Adviser: Mike Ryan, UT Austin) in qPCR methods for detecting *Batrachochytrium dendrobatidis*. Texas State University (2014).
5. Trained visiting scholar Thomas Jenkinson (Adviser: Tim James, University of Michigan) in qPCR methods for detecting *Batrachochytrium dendrobatidis*. (2013)
4. Trained graduate students, technicians, and PIs in qPCR methods for detecting *Batrachochytrium dendrobatidis* and also setup instrumentation. UNICAMP (Brazil) (2011,2013, 2015).
3. Managed a Cooperative CCRAA Hispanic Serving Institution project funded by the U.S. Department of Education. Oversaw the expenditure of \$4.8 million for infrastructure and instrumentation to establish articulated 2+2 transfer programs between El Centro College and Texas universities, and to provide field-based research experiences for Hispanic, African-American, and other low-income students in partnership with the Trinity River Audubon Center. El Centro College, Dallas, TX (2009)
2. Trained visiting scholar Ricardo Gonzalez-Trujillo (Adviser: A. Gonzalez-Romero, Red de Biología y Conservación de Vertebrados, Mexico) in the use of molecular markers for population/conservation genetics. Texas Tech University (2008).
1. Trained visiting scholar Dustin McBride (Adviser: Jim Mueller, Tarleton State University) in the use of molecular markers for population/conservation genetics. Texas Tech University (2008).

**D. Field Courses:**

2016 BIO7402 Molecular Field Techniques  
 2016 BIO7214 Collaborative Research

**G. Grant Proposal Reviews:**

1. NSF (2013)

**F. Editorial Boards:**

None

**H. Journal Reviewer for:**

12. *Fungal Biology*
11. *Heredity*
10. *Biological Reviews*
9. *ZooTaxa*
8. *PLoS ONE*
7. *Molecular Ecology Resources*
6. *Conservation Genetics*

5. *Marine and Freshwater Research*
4. *Journal of Herpetology*
3. *Journal of Caribbean Science*
2. *Comparative Biochemistry and Physiology*
1. *Journal of Experimental Zoology*