

# Charles D. Criscione

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## **RESEARCH FOCUS:**

My research group studies the interplay between the ecology and evolution of parasites (mostly flatworms and roundworms). We use tools ranging from classic natural history to molecular ecological methods and population genetics theory. My lab addresses a myriad of scientific topics from taxonomy and ecological distribution data to empirical tests of evolutionary theory to applied molecular epidemiology. Of particular interest are questions centered on how parasite ecology and life history influence evolutionary mechanisms and hence, consequential patterns of genetic variation within and among parasite populations. Moreover, direct observation of many parasite population processes such as mating behaviors or dispersal is impeded due to their small sizes, infection sites within hosts, and complex life cycles. Thus, we also use population genetics data to elucidate the often hidden and elusive ecology, and cryptic biodiversity of parasites.

## **EDUCATION:**

2005           **Ph.D.** Molecular and Cellular Biology, Oregon State University, GPA: 4.0  
2000           **M.S.** Biology, Southeastern Louisiana University, GPA: 4.0  
1995           **B.S.** Zoology, Louisiana State University, GPA: 4.0, Summa Cum Laude

## **EMPLOYMENT:**

2023-current **Associate Dean**, Graduate and Professional School – Texas A&M University  
2021-2023 **Associate Head for Academic Affairs** – Texas A&M University, Dept. of Biology  
2019-current **Professor** – Texas A&M University, Dept. of Biology  
Faculty of Interdisciplinary Doctoral Program in Ecology and Evolutionary Biology  
Faculty of Interdisciplinary Graduate Program in Genetics and Genomics  
2014-2019 **Associate Professor** – Texas A&M University, Dept. of Biology  
Faculty of Interdisciplinary Doctoral Program in Ecology and Evolutionary Biology  
Faculty of Interdisciplinary Graduate Program in Genetics and Genomics  
2008-2014 **Assistant Professor** – Texas A&M University, Dept. of Biology  
Faculty of Interdisciplinary Research Program in Ecology and Evolutionary Biology  
2005-2008 Postdoctoral Scientist – Texas Biomedical Research Institute (TBRI), Dept. Genetics  
2003-2005 U.S. Environmental Protection Agency STAR Graduate Fellow (OSU)  
2002 Research Assistant (OSU) - pedigree analysis of Oregon steelhead salmon  
2001-2003 Teaching Assistant (OSU) – details below  
2000-2001 CGRB Core Lab Graduate Assistant (OSU) - provided lessons on Genescan/Genotyper software  
1997-2000 Teaching Assistant (SLU) – details below  
1997-1998 Research Assistant (SLU) - ecological studies of introduced fish parasites in streams of Hawai'i

## **ADMINISTRATIVE AND LEADERSHIP EXPERIENCE:**

2023-current **Associate Dean**, Graduate and Professional School – Texas A&M University

- provide leadership for strategic and programmatic graduate and university initiatives.
- administrative oversight of Thesis and Dissertation Services, Graduate Committee Faculty nominations and membership, English Language Proficiency Verification and Teaching Certification
- run and coordinate the Future Faculty Fellowship Program (formerly SEC Emerging Scholars Program)
- provide support for Graduate and Professional Council on graduate policies/standards and curriculum review

- oversee and coordinate events for the Network for Administrative Faculty in Graduate and Professional Affairs (NAFGPA)
  - represent the Graduate and Professional School on university committees and collaborate with university leaders and external stakeholders
  - liaise with the company EAB for individual degree program assessments and market insights
- 2021-2023 **Associate Head for Academic Affairs**, Department of Biology, Texas A&M University (prior to 9/1/2022 official title was Director of Academic Affairs)
- led, oversaw, and managed 5 degrees for 2,000 undergraduate majors
  - co-facilitated with the Assistant Dean of Life Science Initiatives the transition of the Biomedical Sciences (BIMS) undergraduate major (~2,500 students) into College of Arts and Sciences
  - supervised and coordinated with the Undergraduate Advising Office in Biology
  - hired and coordinated with Academic Professional Track faculty
  - consulted and worked with Directors of Lower Division Instruction and Undergraduate Curriculum and ex officio on the Undergraduate Program Committee
  - organized teaching schedule and assignments
  - evaluated curriculum requests across A&M's campus; ascertained transfer requests
  - arbitrated student disputes
  - worked with Center of Teaching Excellence (A&M) for curriculum design (Biology and BIMS)
- 2021-2023 **Assessment and Reporting Chair**, Ecology and Evolutionary Biology Interdisciplinary Research Program (EEB-IDP), Texas A&M University
- member of EEB-IDP Executive Committee
  - enhanced and monitored graduate student progress
- 2021-2023 **Department of Biology Executive Committee – Member**
- reported status on and evaluated needs of undergraduate academic affairs
  - proposed and facilitated departmental initiatives
  - oversaw transfer of lab and office space in Heldenfels to accommodate BIMS transition
- 2022-2023 **Dean's Advisory Committee for Promotion and Tenure**, College of Arts and Sciences
- evaluated promotion and/or tenure packages from 18 diverse academic departments
  - provided summaries and recommendations to the Dean
- 2019-2022 **Tenure and Promotion Advisory Committee**, College of Science, Texas A&M University
- evaluated promotion and/or tenure packages from 5 departments (Math, Statistics, Physics, Chemistry, and Biology)
  - provided summaries and recommendations to the Dean
- 2019-2022 **Chair of Local Organizing Committee** for the 97th Annual National Meeting of the American Society of Parasitologists (held in College Station, Texas in July 2022)
- oversaw hotel venue contract negotiations
  - obtained sponsorship support (received \$15,000 grant from Visit College Station and \$8,500 from Texas A&M academic units)
  - coordinated a local organizing committee of 5 ASP faculty for meeting and event planning
  - managed the meeting budget
  - Public Outreach: "Parasitology on the Green": In conjunction with the meeting, the local organizing committee conducted outreach on the Century Square Green. The event displayed various educational materials to inform the public about scientific research and general knowledge on parasites.
- 2016-2020 **Curriculum Chair**, EEB-IDP, Texas A&M University
- member of EEB-IDP executive committee
  - oversaw a committee of 3 faculty members across campus
  - developed and implemented first year graduate curriculum of EEB-IDP
  - evaluated and approved course curriculum for eligible electives in the EEB-IDP program

## **HONORS, RECOGNITIONS, AND AWARDS:**

- 2023 **Henry Baldwin Ward Medal:** Awarded for mid-career research accomplishments in the field of Parasitology. One of the highest honors bestowed by the American Society of Parasitologists.
- 2008 Young Investigator Award—Honorable Mention (Am. Soc. Trop. Med. Hyg.)
- 2007 Texas Genetics Society – Best postdoctoral poster presentation (presented by C. Valentim)
- 2006 **Ashton Cuckler New Investigator Award** - American Society of Parasitologists
- 2005 American Fisheries Society Best Paper Award in *J. Aquat. Anim. Health* - Kent *et al.* 2005
- 2003 Best Student Presentation—Honorable Mention – Am. Soc. of Parasitologists Halifax meeting
- 2002 National Science Foundation Graduate Research Fellowship—Honorable Mention
- 1999 Graduate Teaching Fellow (SLU)
- 1995 University Medal (LSU) - awarded for highest graduating GPA
- 1995 Phi Eta Sigma Honors Society’s Senior Award (LSU)
- 1991-1995 Dean’s list (LSU)

## **GRANTS AND FUNDING:**

- 2024-2025 Undergraduate Research Program-College of Arts and Sciences, TAMU (**Charles Criscione, PI**) (\$5,000)
- 2022-2024 NSF DEB # 1655147 Supplement (**Charles Criscione, PI**) “Testing the mating system model for the evolution of parasite complex life-cycles” (\$75,817)
- 2017-2024 NSF DEB # 1655147 (**Charles Criscione, PI**) “Testing the mating system model for the evolution of parasite complex life-cycles” (\$622,000)
- 2020-2022 Texas A&M Triads for Transformation (T3) – Project ID: 1414 (**Charles Criscione, PI**; Heath Blackmon, Co-PI; Mike Criscitiello, Co-PI): “Evolutionary Population Genomics of Host Defense and Parasite Counter-defense” (\$32,000).
- 2019 NSF DEB # 1916069 REU Supplement (**Charles Criscione, PI**) “Testing the mating system model for the evolution of parasite complex life-cycles” (\$7,800)
- 2018 College of Science (A&M) – Travel Activities Program: Travel Award to **Charles Criscione** to present at the American Society of Parasitologists 93rd Annual meeting in Cancun, Mexico (\$1,000)
- 2012-2018 NSF DEB # 1145508 (**Charles Criscione, PI**; William Font, Co-PI) “Biodiversity in the parasitic fluke genus *Alloglossidium*: Evolutionary origins of changes in life cycle complexity” (\$716,455)
- 2012-2016 Section 6 Traditional Grants, Texas Parks and Wildlife (**Charles Criscione, PI**; Toby Hibbitts, Co-PI; Lee Fitzgerald, Co-PI; Mary Janecka, Co-PI): “Post de-listing demographic and genetic monitoring of the Concho water snake (*Nerodia paucimaculata*).” (\$149,513)
- 2015 NSF DEB # 1519187 REU Supplement (**Charles Criscione, PI**) “Biodiversity in the parasitic fluke genus *Alloglossidium*: Evolutionary origins of changes in life cycle complexity” (\$7,170)
- 2014-2015 One Health Grand Challenge, Internal Texas A&M grant, (Sarah Hamer, PI; **Charles Criscione, Co-PI**, Ann Millard, Co-PI; Gabriel Hamer, Co-PI; Cecilia Giusti, Co-PI; Dan Goldberg, Co-PI): “Chagas disease in humans, animals, and insect vectors across a transnational gradient” (\$50,000)
- 2013 NSF DEB # 1302258 REU Supplement (**Charles Criscione, PI**) “Biodiversity in the parasitic fluke genus *Alloglossidium*: Evolutionary origins of changes in life cycle complexity” (\$6,250)
- 2012-2013 Braun & Gresham, PLLC Texas Ecolab (**Charles Criscione, PI**; Mary Janecka, Co-PI) “Parasites as biological indicators of ecosystem health and influence of host functional ecology on parasite population genetic substructure.” (\$15,789)
- 2007-2009 NIH 1 R21 AI072704-02 (Tim Anderson, PI; **Charles Criscione, Postdoc**): A linkage map for *Schistosoma mansoni*. (\$150,000)
- 2006 TBRI Forum Grant (**Charles Criscione, PI**): Characterization of the praziquantel drug-resistant phenotype in the human parasite *Schistosoma mansoni*. (\$25,000)
- 2005 Founder’s Council Steves Award (TBRI) - for purchase of stereomicroscope (\$5,692)
- 2005 Cowles Postdoctoral Fellowship (TBRI)

- 2003 Environmental Protection Agency STAR Graduate Fellowship: Comparative population genetics among trematode parasites of salmonids in the Pacific Northwest (\$108,000)
- 2003-2005 American Society of Parasitologists Marc Dresden Student Travel Grants (\$450, \$500, \$500)
- 2003-2004 P. F. Yerex & Nellie Buck Yerex Graduate Fellowship (OSU) (\$5,000)
- 2002-2003 Flyfisher's Club of Oregon Graduate Fellowship (OSU) (\$4,750)
- 2002-2003 Oregon Sports Lottery Scholarship (OSU) (\$3,468)
- 1999 Academic Enhancement Grant (SLU) (\$400)
- 1999 Student Government Association Grant (SLU) (\$350)
- 1994 Louisiana Universities Marine Consortium's Summer Program Grant (\$400)
- 1991-1995 T. H. Harris Scholarship (LSU)
- 1991-1995 Honors Scholarship (LSU)

#### **INTERNATIONAL GRANT PARTNER:**

- 2014-2016 INACH Instituto Antartico Chileno (WWW.INACH.CL). (Dr. Isabel Valdivia, PI; Dr. Leyla Cardenas, Co-PI, Dr. Marcelo Oliva, Co-PI; **Dr. Charles Criscione, Co-PI-International**). A missing component of biodiversity: Evaluating the biodiversity on parasite fauna in Antarctic Fishes" Project INACH RT-22-14.

#### **PUBLICATIONS (peer-reviewed):**

- Hulke, J. M., and **C. D. Criscione** (accepted) Comparing the hermaphroditic mating system of a parasitic flatworm between populations with an ancestral, 3-host life cycle and derived, facultative-precocious life cycle. *Evolution*.
- Hulke, J. M., and **C. D. Criscione**. 2024. Testing the mating system model of parasite complex life cycle evolution reveals demographically driven mixed mating. *American Naturalist* 204:600-615. (Highlighted in *Forthcoming Papers* in *American Naturalist*)
- Hulke, J. M., and **C. D. Criscione**. 2023. Characterization of 21 microsatellite loci for the precocious, grass-shrimp trematode *Alloglossidium renale*. *Molecular and Biochemical Parasitology* 254:111563.
- Thorn, C. S., R. W. Maness, J. M. Hulke, K. E. Delmore, and **C. D. Criscione**. 2023. Population genomics of helminth parasites. *Journal of Helminthology* 97:e29, 1-21.
- Criscione, C. D.**, J. M. Hulke, and C. P. Goater. 2022. Trematode clone abundance distributions: An eco-evolutionary link between parasite transmission and parasite mating systems. *Journal of Parasitology* 108:565-576.
- Janecka, M. J., J. E. Janecka, A. M. Haines, A. Michaels, and **C. D. Criscione**. 2021. Post-delisting genetic monitoring reveals population subdivision along river and reservoir localities of the endemic Concho water snake (*Nerodia harteri paucimaculata*). *Conservation Genetics* 22:1005-1021.
- Hulke, J. M., W. H. Ellenburg, D. A. Zelmer and **C. D. Criscione**. 2021. Quantifying bilateral infection patterns in the trematode *Alloglossidium renale*. *Journal of Parasitology* 107:731-738.
- Criscione, C. D.**, B. J. van Paridon, J. S. Gilleard, and C. P. Goater. 2020. Clonemate cotransmission supports a role for kin selection in a puppeteer parasite. *Proceedings of the National Academy of Sciences* 117 (11): 5970-5976. (press release covered by ScienceDaily and Phys.Org)
- Caballero, I. C. and **C. D. Criscione**. 2019. Little to no inbreeding depression in a tapeworm with mixed mating. *Journal of Evolutionary Biology* 32:1002-1010.
- Sakla, A. J., J. T. Detwiler, I. C. Caballero, C. Kelehear, and **C. D. Criscione**. 2019. Recognizing the causes of parasite morphological variation to resolve the status of a cryptogenic pentastome. *Journal of Parasitology* 105:432-441.
- Kasl, E. L., W. F. Font, and **C. D. Criscione**. 2018. Resolving evolutionary changes in parasite life cycle complexity: molecular phylogeny of the trematode genus *Alloglossidium* indicates more than one origin of precociousness. *Molecular Phylogenetics and Evolution* 126:371-381.
- Dusitsittipon, S., **C. D. Criscione**, S. Morand, C. Komalamisra, and U. Thaenkham. 2018. Hurdles in the evolutionary epidemiology of *Angiostrongylus cantonensis*: pseudogenes, incongruence between taxonomy and DNA sequence variants, and cryptic lineages. *Evolutionary Applications* 11:1257-1269.

- Detwiler, J.T., I. C. Caballero, and **C. D. Criscione**. 2017. Role of parasite transmission in promoting inbreeding: I. Infection intensities drive individual parasite selfing rates. [Molecular Ecology 26:4391–4404](#).
- Detwiler, J.T., and **C. D. Criscione**. 2017. Role of parasite transmission in promoting inbreeding: II. Pedigree reconstruction reveals sib-transmission and consequent kin-mating. [Molecular Ecology 26:4405–4417](#).
- Dusitsittipon, S., **C. D. Criscione**, S. Morand, C. Komalamisra, and U. Thaikham. 2017. Cryptic lineage diversity in the zoonotic pathogen *Angiostrongylus cantonensis*. [Molecular Phylogenetics and Evolution 107:404-414](#).
- McAllister, C. T., E. L. Kasl, H. W. Robison, M. B. Connior, W. F. Font, S. E. Trauth, and **C. D. Criscione**. 2016. New host records for *Alloglossidium progeneticum* (Digenea: Macroderoididae) in crayfishes (Decapoda: Cambaridae) from Arkansas and Oklahoma, U.S.A. [Comparative Parasitology 83:255-259](#).
- van Paridon, B. J., C. P. Goater, J. S. Gilleard, and **C. D. Criscione**. 2016. Characterization of nine microsatellite loci for *Dicrocoelium dendriticum*, an emerging liver fluke of ungulates in North America, and their use to detect clonemates and random mating. [Molecular and Biochemical Parasitology 207:19-22](#).
- Criscione, C. D.** 2016. History of microevolutionary thought in parasitology: The integration of molecular population genetics. in J. Janovy Jr., G. E. Esch, eds., [A Century of Parasitology: Discoveries, ideas and lessons learned by scientists who published in the Journal of Parasitology](#), 1914–2014. Wiley. (Invited book chapter).
- Kasl, E. L., C. T. McAllister, H. W. Robison, M. B. Connior, W. F. Font, and **C. D. Criscione**. 2015. Evolutionary consequence of a change in life cycle complexity: a link between precocious development and evolution towards female-biased sex allocation in a hermaphroditic parasite. [Evolution 69:3156-3170](#).
- Caballero, I. C., A. J. Sakla, J. T. Detwiler, M. Le Gall, S. T. Behmer, and **C. D. Criscione**. 2015. Physiological status drives metabolic rate in Mediterranean geckos infected with pentastomes. [PLOS One 10\(12\): e0144477](#).
- Doña, J., M. Moreno-García, **C. D. Criscione**, D. Serrano, R. Jovani. 2015. Species mtDNA genetic diversity explained by infrapopulation size in a host-symbiont system. [Ecology and Evolution 5:5801-5809](#).
- McAllister, C. T., W. F. Font, M. B. Connior, H. W. Robison, N. G. Stokes, and **C. D. Criscione**. 2015. Trematode parasites (Digenea) of the slender madtom, *Noturus exilis* and Black River madtom, *Noturus maydeni* (Siluriformes: Ictaluridae) from Arkansas, U.S.A. [Comparative Parasitology 82:137-143](#).
- Detwiler, J. T. and **C. D. Criscione**. 2014. Recently introduced invasive geckos quickly reach population genetic equilibrium dynamics. [Biological Invasions 16:2653-2667](#).
- Valdivia, I. M., **C. D. Criscione**, L. Cárdenas, C. P. Durán and M. E. Oliva. 2014. Does a facultative precocious life cycle predispose the marine trematode *Proctoeces* cf. *lintoni* to inbreeding and genetic differentiation among host species? [International Journal for Parasitology 44:183-188](#).
- Kasl, E. L., T. J. Fayton, W. F. Font, and **C. D. Criscione**. 2014. *Alloglossidium floridense* n. sp. (Digenea: Macroderoididae) from a spring run in north central Florida. [Journal of Parasitology 100:121-126](#).
- Criscione, C. D.** 2013. Genetic epidemiology of *Ascaris*: cross-transmission between humans and pigs, focal transmission, and effective population size. in C. Holland, ed. [Ascaris: The Neglected Parasite](#). Academic Press. (peer-reviewed book chapter)
- Gorton, M. J., E. L. Kasl, J. T. Detwiler, and **C. D. Criscione**. 2012. Testing local scale panmixia provides insights into the cryptic ecology, evolution, and epidemiology of metazoan animal parasites. [Parasitology 139:981-997](#). (Invited review).
- Owusu, K. A., J. T. Detwiler, and **C. D. Criscione**. 2012. Characterization of 21 microsatellite loci from the invasive Mediterranean gecko (*Hemidactylus turcicus*). [Conservation Genetics Resources 4:563-565](#).
- Peng, W. and **C. D. Criscione**. 2012. Ascariasis in people and pigs: New inferences from DNA analysis of worm populations. [Infection, Genetics and Evolution 12:227-235](#). (Invited review).
- Williams-Blangero, S., **C. D. Criscione**, J. L. VandeBerg, R. Correa-Oliveira, K. D. Williams, J. Subedi, J. Kent, J. Williams, S. Kumar, and J. Blangero. 2012. Host genetics and population structure effects on parasitic disease. [Philosophical Transactions of the Royal Society B 367:887-894](#).

- Detwiler, J. T. and **C. D. Criscione**. 2011. Testing Mendelian inheritance from field-collected parasites: revealing duplicated loci enables correct inference of reproductive mode and mating system. [\*International Journal for Parasitology\* 41:1185-1195.](#)
- Criscione, C. D.**, R. Vilas, E. Paniagua, and M. S. Blouin. 2011. More than meets the eye: detecting cryptic microgeographic population structure in a parasite with a complex life cycle. [\*Molecular Ecology\* 20:2510-2524.](#)
- Criscione, C. D.**, J. D. Anderson, D. Sudimack, J. Subedi, R. P. Upadhayay, B. Jha, K. D. Williams, S. Williams-Blangero, and T. J. C. Anderson. 2010. Landscape genetics reveals focal transmission of a human macroparasite. [\*PLOS Neglected Tropical Diseases\* 4:e665.](#)
- Detwiler, J. T. and **C. D. Criscione**. 2010. An infectious topic in reticulate evolution: Introgression and hybridization in animal parasites. [\*Genes\* 1:102-123.](#) (Invited review).
- Steinauer, M. L., M. S. Blouin, and **C. D. Criscione**. 2010. Applying evolutionary genetics to schistosome epidemiology. [\*Infection, Genetics and Evolution\* 10:433-443.](#) (Invited review).
- Criscione, C. D.**, C. L. L. Valentim, H. Hirai, P. T. LoVerde, T. J. C. Anderson. 2009. Genomic linkage map of the human blood fluke *Schistosoma mansoni*. [\*Genome Biology\* 10:R71.](#) (press release from *Genome Biology*, mini-review by Andy Tait in *Genome Biology*, and story by Texas A&M College of Science).
- Valentim, C. L. L., P. T. LoVerde, T. J. C. Anderson, **C. D. Criscione**. 2009. Efficient genotyping of *Schistosoma mansoni* miracidia following whole genome amplification. [\*Molecular and Biochemical Parasitology\* 166:81-84.](#)
- Criscione, C. D.** 2008. Parasite co-structure: broad and local scale approaches. [\*Parasite\* 15:439-443](#) (Invited Review).
- Criscione, C. D.**, J. D. Anderson, D. Sudimack, W. Peng, B. Jha, S. Williams-Blangero, and T. J. C. Anderson. 2007. Disentangling hybridization and host colonization in parasitic roundworms of humans and pigs. [\*Proceedings of the Royal Society B\* 274:2669-2677.](#)
- Criscione, C. D.**, J. D. Anderson, K. Raby, D. Sudimack, J. Subedi, D. R. Rai, R. P. Upadhayay, B. Jha, S. Williams-Blangero, and T. J. C. Anderson. 2007. Microsatellite markers for the human nematode parasite *Ascaris lumbricoides*: Development and assessment of utility. [\*Journal of Parasitology\* 93:704-708.](#)
- Criscione, C. D.**, and M. S. Blouin. 2007. Parasite phylogeographical congruence with salmon host evolutionarily significant units: Implications for salmon conservation. [\*Molecular Ecology\* 16:993-1005.](#)
- Criscione, C. D.**, and M. S. Blouin. 2006. Minimal selfing, few clones, and no among-host genetic structure in a hermaphroditic parasite with asexual larval propagation. [\*Evolution\* 60:553-562.](#)
- Criscione, C. D.**, B. Cooper, and M. S. Blouin. 2006. Parasite genotypes identify source populations of migratory fish more accurately than fish genotypes. [\*Ecology\* 87:823-828.](#) (subject of articles in *The Oregonian* newspaper, KVAL 13 Eugene, OR and *Practical Fishkeeping* and *FISH Update* magazines)
- Vilas, R., **C. D. Criscione**, E. Paniagua, and M. S. Blouin. 2006. Microsatellite loci from the trematode *Lecithochirium fusiforme*, a parasite of the European conger eel. [\*Molecular Ecology Notes\* 6:1064-1066.](#)
- Criscione, C. D.**, R. Poulin, and M. S. Blouin. 2005. Molecular ecology of parasites: Elucidating ecological and microevolutionary processes. [\*Molecular Ecology\* 14:2247-2257.](#) (Invited review).
- Criscione, C. D.**, and M. S. Blouin. 2005. Effective sizes of macroparasite populations: A conceptual model. [\*Trends in Parasitology\* 21:212-217.](#)
- Vilas, R., **C. D. Criscione**, and M. S. Blouin. 2005. A comparison between mitochondrial DNA and the ribosomal internal transcribed regions in prospecting for cryptic species of platyhelminth parasites. [\*Parasitology\* 131:839-846.](#)
- Criscione, C. D.**, and M. S. Blouin. 2005. Eleven polymorphic microsatellite loci for the salmonid trematode *Plagioporus shawi*. [\*Molecular Ecology Notes\* 5:562-564.](#)
- Criscione, C. D.**, and M. S. Blouin. 2004. Life cycles shape parasite evolution: comparative population genetics of salmon trematodes. [\*Evolution\* 58:198-202.](#) (with cover illustration)
- Kent, M.L., V. Watral., C. M. Whipps, M. E. Cunningham, **C. D. Criscione**, J. R. Heidel, D. L. Curtis, J. Spitsbergen, D. Markle. 2004. A digenean metacercaria (*Apophallus* sp.) and a myxozoan (*Myxobolus* sp.) associated with vertebral deformities in cyprinid fishes from the Willamette River, Oregon. [\*Journal of Aquatic Animal Health\* 16:116-129.](#)

- Criscione, C. D.**, V. Watral, C. M. Whipps, M. S. Blouin, S. R. M. Jones, and M. L. Kent. 2002. Ribosomal DNA sequences indicate isolated populations of *Ichthyophonus hoferi* in geographic sympatry in the northeastern Pacific Ocean. [\*Journal of Fish Diseases\* 25: 575-582.](#)
- Criscione, C. D.**, and W. F. Font. 2001. The guest playing host: Colonization of the introduced Mediterranean gecko, *Hemidactylus turcicus*, by helminth parasites in southeastern Louisiana. [\*Journal of Parasitology\* 87:1273-1278.](#)
- Criscione, C. D.**, and W. F. Font. 2001. Development and specificity of *Oochoristica javaensis* (Eucestoda: Cyclophyllidae: Anoplocephalidae: Linstowiinae). [\*Comparative Parasitology\* 68:149-155.](#)
- Criscione, C. D.**, and W. F. Font. 2001. Artfactual and natural variation of *Oochoristica javaensis*: Statistical evaluation of in situ fixation. [\*Comparative Parasitology\* 68:156-163.](#)
- Criscione, C. D.**, N. J. Anderson, T. Campbell, and B. Quinn. 1998. *Hemidactylus mabouia*. [\*Herpetological Review\* 29:248.](#)

### **PUBLICATIONS (other):**

- Criscione, C. D.** 2023. Acceptance of the 2023 Henry Baldwin Ward Medal: Pedigree of a Parasitologist Progeny. [\*Journal of Parasitology\* 109:655-662.](#)
- Criscione, C. D.**, M. L. Steinauer, R. A. Fiorillo, and A. B. Smythe. 2023. IN MEMORIAM Dr. William (Bill) Francis Font, Jr. 11 August 1944–8 April 2022. [\*Journal of Parasitology\* 109:169-173.](#)
- Steinauer, M. L., and **C. D. Criscione**. 2012. Introduction of William F. Font, recipient of the 2012 Clark P. Read Mentor Award. [\*Journal of Parasitology\* 98:1065-1070.](#)
- Criscione, C. D.** 2005. The influence of parasite ecology on the genetic structure of parasite populations. [Ph.D. Dissertation, Oregon State University](#), Corvallis, Oregon, 73 p.
- Criscione, C. D.** 2000. Ecological and conservation implications regarding the helminth parasites of the introduced Mediterranean gecko, *Hemidactylus turcicus*, in southeastern Louisiana with notes on the life cycle and specificity of the cestode *Oochoristica javaensis*. [M.S. Thesis, Southeastern Louisiana University](#), Hammond, Louisiana, 146 p.

### **TEACHING EXPERIENCE:**

- 2022-current Evolution (BIOL 610, TAMU)
- 2023 Journal Club: Host-Parasite Population Genomics (BIOL 691, TAMU)
- 2022 Journal Club: Population Genomics of Parasitic Helminths (BIOL 691, TAMU)
- 2009-2021 Genes, Ecology, Evolution (BIOL 214, TAMU) (years taught 2009-2013, 2017, 2018, 2020, 2021)
- 2018-2021 Population and Quantitative Genetics (EEBL 605, TAMU)
- 2015-2020 Population Genetics (GENE 612, TAMU)
- 2012-2016 Biomedical Parasitology (BIOL 487/VTPB 487, TAMU)
- 2010 General Parasitology (BIOL 489/689, TAMU)
- 2010 Ecological and Evolutionary Applications in Studies of Parasites/Pathogens (BIOL 689, TAMU)
- 2001, 2003 Teaching Assistant – Genetics (OSU)
- 2002 Teaching Assistant – Cell Biology Laboratory (OSU)
- 2000 Teaching Assistant – Graduate Advanced Biostatistics Laboratory (SLU)
- 1999, 2000 Teaching Assistant – Undergraduate Applied Biostatistics Laboratory (SLU)
- 1999 Teaching Assistant – Field Zoology (summer course on vertebrate natural history) (SLU)
- 1999 Biology Computer Laboratory monitor and instructor (SLU)
- 1997-1999 Teaching Assistant – Introduction to Zoology Laboratory (SLU)
- Guest Lecturer – Parasitology (OSU), Evolution (SLU), Herpetology (SLU)

### **POSTDOCTORAL MENTORING:**

- 2013-2017 Dr. Isabel Caballero (current: Program Manager and Outreach Chair, Interdisciplinary Graduate Program in Genetics and Genomics, Texas A&M University)
- 2010-2013 Dr. Jillian Detwiler (current: Associate Professor, University of Manitoba)  
ADVANCE nominated participant (NSF career program, Texas A&M Univ.)

2012-2013 Awarded NIH NRSA F32 Postdoctoral Fellow (Jillian Detwiler, PI; **Charles Criscione, sponsor**): “Testing mechanisms of parasite-mediated selection on MHC genetic diversity.” (\$52,190)

### **GRADUATE STUDENT MENTORING:**

#### Advisor role:

2022-current Ryne Maness (Ph.D. student, Texas A&M Univ., Dept. of Biology)  
2022-current Chelsea Thorn (Ph.D. student, Texas A&M Univ., Dept. of Biology)  
2021-current Owen Dorsey (co-advise) (Ph.D. student, Texas A&M Univ., EEB)  
2019-2024 Jenna Hulke (Ph.D. student, Texas A&M Univ., Dept. of Biology) (current: Cowles Postdoctoral Fellowship, Texas Biomedical Research Institute, San Antonio, TX since June 2024)  
2010-2019 Mary Janecka (formerly Gorton) (Ph.D., Texas A&M Univ., Dept. of Biology) (current: Assistant Professor, University of Texas – El Paso since Fall 2023)  
2015-2018 Andrew Sakla (M.S., Texas A&M Univ., Dept. of Biology) (previous: Laboratory Operations Manager for the Center for Genetics of Host Defense, Univ. of Texas-Southwestern Medical Center 2019-2024; current: Operations Manager, Maple Street Properties, New Orleans, LA)  
2009-2016 Emily Kasl (Ph.D., Texas A&M Univ., Dept. of Biology) (current: Associate Professor, University of North Alabama since Fall 2017)

#### Committee member role:

2023-current Koen Kleine (Ph.D. student, Texas A&M University, Dept. of Biology)  
2022-current Matthew Kulpa (Ph.D. student, Texas A&M University, Dept. of Veterinary Pathobiology)  
2020-current Jorge Medina Duran (Ph.D. student, Texas A&M Univ., EEB)  
2021-2023 Daniel Fanning (M.S. student, Texas A&M University-Galveston, Marine Biology)  
2020-2023 Natalie Hamilton (Ph.D., Texas A&M Univ., Dept. of Rangeland Wild. and Fish. Mgmt.)  
2018-2022 Terrence Sylvester (Ph.D., Texas A&M Univ., Dept. of Biology)  
2014-2022 Charlayna Cammarata (Ph.D., Texas A&M Univ., Dept. of Ecology and Conservation Biology)  
2017-2022 Stephen Bovio (Ph.D., Texas A&M Univ., EEB)  
2012-2017 Jessica Rodriguez (Ph.D., Texas A&M Univ., Dept. of Vet. Pathobiology)  
2011-2016 Humberto Martinez Montoya (Ph.D., Texas A&M Univ., WFSC)  
2010-2016 Melissa Giresi (Ph.D., Texas A&M Univ., Dept. of Biology)  
2012-2015 Mattie Squire (M.S., Texas A&M Univ., Dept. of Biology)  
2012 Eric Rosch (Ph.D. 2012, Texas A&M Univ., Dept. of Biology)  
2008-2011 Zachary W. Culumber (Ph.D. 2011, Texas A&M Univ., Dept. of Biology)

#### Mentees at other institutions:

2015-2018 Erika Ebbs (formerly Gendron) (Ph.D., Univ. New Mexico, Dept. of Biology), outside committee member  
2015 Sirilak Dusitsittipon (Ph.D. 2016 Mahidol University, hosted as visiting student from Thailand, Development and Promotion of Science and Technology Talents Project (DPST)-(Royal Government of Thailand scholarship) (current: Lecturer, Department of Parasitology and Entomology, Faculty of Public Health, Mahidol University, Thailand)  
2010-2011 Isabel M. Valdivia (Ph.D. 2012, Universidad de Antofagasta, Chile). She did an internship in my laboratory via a CONICYT Becas de Pasantía Doctoral en el Extranjero-Becas Chile. (current: Research Associate, Laboratorio de Estudios Ecosistémicos—LECOS, Escuela de Ingeniería y Negocios, Universidad Viña del Mar, Chile)  
2010 Diana Belanger (Ph.D. 2010, The City University of New York and American Museum of Natural History), outside defense committee member.

### **UNDERGRADUATE STUDENT MENTORING:**

2024 Prestin Li (undergraduate research BIOL 291)  
2024 Nikita Naredia (undergraduate research BIOL 291)



2024 Rance Greer (undergraduate research, NIH-GREAT Genomics UG Research Experience Project, Prairie-View A&M)

2024 Ryan Yam (undergraduate research BIOL 491)

2024 Nick Oster (undergraduate research BIOL 491)

2024 Charles Shilstone (undergraduate research BIOL 291)

2020-2022 Nicholas Hein (undergraduate research BIOL 491, student worker)

2022 Devin Rubio (undergraduate research BIOL 491)

2021-2022 Payton Pilling (undergraduate research BIOL 491)

2021 Shelby Crosby (undergraduate research BIOL 491, NSF REU participant)

2019-2020 Genesis Hernandez (undergraduate research BIOL 491)

2018-2019 William Ellenburg (student worker, NSF REU participant, undergraduate research BIOL 491)

2019 Stephanie Bynum (undergraduate research BIOL 491)

2018 Sonny Rodriguez (Regents' Scholar, undergraduate research BIOL 291)

2016-2017 Nikki Selby (undergraduate research BIOL 291, 491)

2014-2016 Brianna Trejo (undergraduate research BIOL 491, NSF REU participant)

2015 Heather Newkirk (undergraduate research BIOL 491, NSF REU participant, BICH 491)

2015 Michael Rauch (undergraduate research VIBS 285)

2014 Abbie Ince (undergraduate research BIOL 491, student worker)

2012-2014 Andrew Sakla (undergraduate research BIOL 491, then employed as technician)

2013 Nicholas Stokes (NSF REU participant)

2013 Moinuddin Syed (undergraduate research BIOL 491)

2013 Katherine Bass (undergraduate research BIOL 491)

2011-2013 Erika Medina (Louis Stokes Alliance for Minority Participation undergraduate researcher)

2012 Katherine Holley (undergraduate research BIOL 491)

2010-2011 Kwadwo Owusu (undergraduate research BIOL 291, 491)

2011 Kathleen Peart (undergraduate research BIOL 291)

2009-2010 Johnson Cheng (undergraduate research BIOL 491)

2009-2010 Shih-Jye Yei (undergraduate research BIOL 491)

#### **INVITED SEMINARS:**

2022 Southeastern Louisiana University, Department of Biological Sciences

2021 Sam Houston State University, Department of Biological Sciences

2018 Animal Parasitic Diseases Laboratory, USDA/ARS/NEA/BARC, Beltsville, Maryland

2018 Texas A&M University, Department of Biology

2018 Texas A&M University, Genetics and Genomics (G2) Seminar Series, Interdisciplinary Faculty of Genetics and Institute for Genome Sciences and Society

2018 Texas A&M University, Department of Veterinary Pathobiology

2018 University of New Mexico, Center for Evolutionary and Theoretical Immunology

2018 University of Texas - Tyler, Department of Biology

2016 Universidad Austral de Chile, Facultad de Ciencias

2015 University of California - Santa Barbara, Department of Ecology Evolution and Marine Biology

2013 University of Houston, Department of Biology and Biochemistry

2013 Texas A&M University, Department of Biology

2012 University of Calgary, Faculty of Veterinary Medicine (departmental seminar and guest lecturer)

2011 Rice University, Department of Ecology and Evolutionary Biology

2010 RAPIDD; NIH sponsored workshop on cross species transmission. Bethesda, Maryland

2010 University of Milano Bicocca, Department of Biotechnology and Biosciences, Milan, Italy

2009 TAMU Zoological Society

2007 University of Montana (guest seminar for Gordon Luikart's disease ecology/evolution class)

2007 University of South Florida, Department of Biology

2007 Southern Illinois University-Carbondale, Department of Zoology

2007 Louisiana State University, Department of Biological Sciences

2007 University of Georgia, Department of Genetics

2006	Texas A&M University, Department of Biology
2006	University of Central Florida, Department of Biology
2000	Louisiana State University, Museum of Natural Science
2000	University of California-Davis, Department of Nematology

### **CONFERENCE PRESENTATIONS:**

- Criscione, C. D.**, 2023. Acceptance of the 2023 Henry Baldwin Ward Medal: Pedigree of a Parasitologist Progeny. American Society of Parasitologists (Kansas City, MO) (**Award recipient invited speech**).
- Criscione, C. D.**, and C. Goater. 2022. Nascent linkages between parasite transmission, parasite mating systems, and clonemate abundance distributions in trematodes. American Society of Parasitologists (College Station, TX).
- Criscione, C. D.**, B. van Paridon, J. Gilleard, and C. Goater. 2019. Adding reality to the folklore of the iconic host manipulating lancet fluke: hard data on clonal transmission in infected ants from southern Alberta, Canada. American Society of Parasitologists (Rochester, MN).
- Kasl, E. L., W. F. Font, and **C. D. Criscione**. 2018. Evolution of precocious life cycles in the trematode genus *Alloglossidium*. American Society of Parasitologists (Cancun, Mexico).
- Criscione, C. D.**, and J. T. Detwiler. 2017. Elucidating the role of inbreeding in parasites: using pedigree reconstruction data to infer transmission, assess inbreeding depression, and partition the mating system. American Society of Parasitologists (San Antonio, Texas).
- Detwiler, J. T., I. C. Caballero, **C. D. Criscione**. 2016. Role of parasite transmission in promoting inbreeding. Evolution 2016 Austin, TX (poster).
- Criscione, C. D.**, J. T. Detwiler, and I. C. Caballero. 2014. Role of parasite transmission in promoting inbreeding. I. Impact on the primary mating system. American Society of Parasitologists (New Orleans, LA).
- Criscione, C. D.** and J. T. Detwiler. 2014. Role of parasite transmission in promoting inbreeding. II. Impact on sib-mating. American Society of Parasitologists (New Orleans, LA).
- Criscione, C. D.** 2014. History of microevolutionary thought in parasitology: The integration of molecular population genetics. American Society of Parasitologists (New Orleans, LA). (**Invited Speaker - Centennial Symposium: Celebrating 100 years of the *Journal of Parasitology***).
- Criscione, C. D.** 2013. Estimation of the effective population size ( $N_e$ ) as a genetic epidemiological tool to monitor metazoan parasite population and transmission dynamics. American Society of Parasitologists (Quebec City, Canada)
- Criscione, C. D.** 2012. Landscape genetics and estimation of the effective population size ( $N_e$ ) as genetic epidemiological tools to monitor metazoan parasite population and transmission dynamics. 11th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases (New Orleans, LA) (**Plenary Speaker-Invited**).
- Criscione, C. D.** 2012. Shifting Balance Theory and the ‘Evolution’ of an Academic Career. American Society of Parasitologists (Richmond, VA) (**Students’ Symposium Speaker-Invited**).
- Criscione, C. D.** 2011. Transmission and determinants of inbreeding in metazoan parasites: insights from genetic data. Center for Genome Research and Biocomputing (CGRB) Fall Conference, Oregon State University, Corvallis, OR (**Conference Speaker- Invited**).
- Criscione, C. D.**, R. Vilas, E. Paniagua, and M. S. Blouin. 2011. More than meets the eye: cryptic microgeographic genetic structure in a parasite explains extensive variation in population inbreeding coefficients. Evolution (Norman, OK).
- Detwiler, J. T. and **C. D. Criscione**. 2010. Unexpected asexual reproduction in a tapeworm? American Society of Parasitologists (Colorado Springs, CO).
- Criscione, C. D.**, C. L. L. Valentim, H. Hirai, P. T. LoVerde, T. J. C. Anderson. 2009. Genetic linkage map of the human blood fluke *Schistosoma mansoni*. Am. Soc. of Parasitologists (Knoxville, TN).
- Criscione, C. D.**, D. Sudimack, J. D. Anderson, J. Subedi, D. R. Rai, R. P. Upadhayay, B. Jha, K. D. Williams, S. Williams-Blangero, and T. J. C. Anderson. 2008. Landscape genetics reveals focal transmission of *Ascaris lumbricoides*. American Society of Tropical Medicine and Hygiene (New Orleans, LA).
- Criscione, C. D.** 2008. Parasite co-structure: broad and local scale approaches. Xth European Multicolloquium of Parasitology (Paris, France) (**Keynote Speaker-Invited**).

- Criscione, C. D.**, D. Sudimack, J. D. Anderson, J. Subedi, D. R. Rai, R. P. Upadhayay, B. Jha, S. Williams-Blangero, and T. J. C. Anderson. 2008. Molecular epidemiology and landscape genetics as tools to examine foci of parasite transmission within host populations. Am. Soc. of Parasitologists (Arlington, TX).
- Criscione, C. D.**, C. Valentim, P. T. Loverde, T. J. C. Anderson. 2007. Construction of a linkage map for *Schistosoma mansoni*. American Society of Tropical Medicine and Hygiene (Philadelphia, PA).
- Criscione, C. D.**, J. D. Anderson, D. Sudimack, W. Peng, M. E. Romero-Abal, J. Subedi, D. R. Rai, R. P. Upadhayay, B. Jha, S. Williams-Blangero, and T. J. C. Anderson. 2007. Disentangling host colonization and hybridization patterns in human and pig *Ascaris*: Is it possible? 1st North American Parasitology Congress (Merida, Mexico).
- Valentim, C. L., P. T. LoVerde, T. J. C. Anderson, **C. D. Criscione**. 2007. Evaluating whole genome amplification from small parasites: Typing hundreds of microsatellite markers from single miracidia of *Schistosoma mansoni*. 1st North American Parasitology Congress (Merida, Mexico).
- Valentim, C. L., P. T. LoVerde, T. J. C. Anderson, **C. D. Criscione**. 2007. Linkage map construction in the human blood fluke *Schistosoma mansoni*. Texas Genetics Society (San Antonio, TX).
- Criscione, C. D.**, B. Cooper, and M. S. Blouin. 2006. Parasite genotypes identify source populations of migratory fish more accurately than fish genotypes. 11th Int. Congress of Parasitology (Glasgow, Scotland).
- Criscione, C. D.**, J. D. Anderson, K. Raby, D. Sudimack, J. Subedi, D. R. Rai, R. P. Upadhayay, B. Jha, S. Williams-Blangero, and T. J. C. Anderson. 2006. Landscape genetics of *Ascaris lumbricoides*: fine scale genetic structure among human hosts (poster). 11th Int. Congress of Parasitology (Glasgow, Scotland).
- Criscione, C. D.**, and M. S. Blouin. 2005. Elucidating parasite transmission dynamics and mating systems: an examination of the within population genetic structure of the salmonid trematode *Plagioporus shawi*. Am. Soc. of Parasitologists (Mobile, AL).
- Criscione, C. D.**, and M. S. Blouin. 2004. Parasite population genetics: illustrated uses in the environmental and conservation sciences (poster). EPA Graduate Fellowship Conference (Washington, DC).
- Criscione, C. D.**, and M. S. Blouin. 2004. Effective size of macroparasite populations: a conceptual overview. Am. Soc. of Parasitologists (Philadelphia, PA), Evolution (Fort Collins, CO), EVO\_WIBO (Port Townsend, WA).
- Criscione, C. D.**, and M. S. Blouin. 2003. Life cycles shape parasite evolution as shown via comparative population genetics of salmonid trematodes. Am. Soc. of Parasitologists (Halifax, Nova Scotia), Evolution (Chico, CA).
- Criscione, C. D.**, V. Watral, C. M. Whipps, M. S. Blouin, S. R. M. Jones, and M. L. Kent. 2002. Ribosomal DNA sequences indicate isolated populations of *Ichthyophonus hoferi* in the northeastern Pacific Ocean. 10th Int. Congress of Parasitology (Vancouver, Canada).
- Criscione, C. D.**, and W. F. Font. 1999. Helminth parasites from the introduced Mediterranean gecko, *Hemidactylus turcicus*: ecological and conservation implications for reptiles and amphibians. ASIH (Pennsylvania St. Univ, PA), Southeastern Society of Parasitologists (Auburn Univ., AL).

### **WORKSHOPS and SHORT COURSES**

- 2016 Population Genetics in Species with Complex Life Cycles (Universidad Austral de Chile, Facultad de Ciencias in Valdivia, Chile) – Invited Lecturer for week long graduate student summer short-course.
- 2010 RAPIDD (Research and Policy of Infectious Disease Dynamics; NIH sponsored) – Estimating Pathogen Transmission Among Host Species. Invited participant.
- 2007 Conservation Genetics Data Analysis Course, Flathead Lake Biological Station, Montana.

### **SERVICE:**

- 2024-current Workshop presenter “Writing a Research Statement”: Part of an annual workshop series by the Academy for Future Faculty, a Center for the Integration of Research, Teaching, and Learning (CIRTL) program at TAMU to enhance the professional development of graduate students and postdoctoral scholars interested in an academic STEM career.

2023-current Workshop presenter “Applying to Graduate School”: Part of a workshop series in the Fellowship and Writing Application Boot Camp, which is hosted by the Texas A&M University System - Louis Stokes Alliance for Minority Participation (TAMUS LSAMP) program. This program is an annual workshop for NSF REU, NIH R25, and LSAMP summer undergraduate researchers to enhance their writing skills in graduate school and national fellowship applications.

2023-current Priorities and Planning Committee, American Society of Parasitologists - member

2019-current Associate Editor, *The Journal of Parasitology*

2015-current *Journal of Helminthology*, Editorial Board

2024 President’s and VPR’s Research Identity Committee, Texas A&M University

2023 Provost’s Office Strategic Priority Committee: Elevate Graduate and Professional Education

2023 Provost’s Office Strategic Priority Committee: Establish us as a best place to work and learn

2022-2023 Dean’s Advisory Committee for Promotion and Tenure, College of Arts and Sciences, Texas A&M Univ.

2021-2023 Workshop Committee (Faculty Affairs, Texas A&M University): Workshop co-facilitator for faculty search and promotion/tenure committees to identify and recruit well-qualified, broad-reaching candidates for faculty positions, and retain them to enhance campus-wide excellence.

2021-2023 Assessment and Reporting Chair, Ecology and Evolutionary Biology Interdisciplinary Research Program, Texas A&M University-elected member

2022 Program (Re)Design: TAMU Undergraduate BIMS, member (committee to work with Center of Teaching Excellence (A&M) for curriculum design)

2022 Undergraduate Instruction Committee, College of Arts and Sciences, Texas A&M Univ.

2022 Undergraduate Instruction Committee, Biomedical Sciences (BIMS), Texas A&M Univ.

2021-2022 Undergraduate Program Committee, Dept. of Biology, Texas A&M Univ. (ex officio)

2021-2022 Program (Re)Design: TAMU Undergraduate Biology, Core Team member (committee to work with Center of Teaching Excellence (A&M) for curriculum design)

2019-2022 Tenure and Promotion Advisory Committee, College of Science, Texas A&M Univ.

2022 Interviewer for Science2Medicine program (admits undergrads with guaranteed admission to A&M Medical School)

2022 University Working Group #13 – committee member: Charged to develop a First Year Life Science program in the College of Arts and Sciences and to transition BIMS to the College of Arts and Sciences.

2019-2022 Local Organizing Committee (Chair), 97th Annual National Meeting of the American Society of Parasitologists (held in College Station, Texas in 2022)

2019-2022 Meeting Site Selection Committee, (Chair from 2021-2022), American Society of Parasitologists

2020-2021 Graduate Program Committee, Dept. of Biology, Texas A&M Univ.

2017-2021 Seminar Committee, Dept. of Biology, Texas A&M Univ.

2016-2020 Curriculum Chair, Ecology and Evolutionary Biology Interdisciplinary Research Program, Texas A&M University-elected member

2016-2020 Council-Member-at-Large, American Society of Parasitologists-elected member

2017 NIH GVE Temporary Panel Member (October)

2015-2017 Evolutionary Genomics Search Committee (Dept. of Biology, Texas A&M Univ.)

2013-2016 Annual Review Committee (Dept. of Biology, Texas A&M Univ.)-elected member

2013-2015 Budget Information Committee (Sub-Committee of Faculty Senate)

2012-2015 Faculty Senate (College of Science, Texas A&M Univ.)-elected member

2013 Biology Department Head Search Advisory Committee (College of Science, Texas A&M Univ.)

2012-2013 Student Awards Committee – American Society of Parasitologists

2010-2013 Priorities and Planning Committee - American Society of Parasitologists

2009-2012 Graduate Recruiting and Admissions Committee (Dept. of Biology, Texas A&M Univ.)

2009-2010 Nominating Committee (elected member) – American Society of Parasitologists

2009 Operating Budget and Funding Priorities Subcommittee (Dept. of Biology, Texas A&M Univ.)

2007-2009 Henry Baldwin Ward Medal Committee (Chair) - American Society of Parasitologists

2005-2009 Membership Committee - American Society of Parasitologists

- 2008 Organizer of symposium at Am. Soc. of Parasitologists (Arlington, TX, 2008): *Population genetics of parasites: from geography to genes.*
- 2003 Invited panel speaker for the Council of Regents (OSU) - special event for university donors
- 2003 Molecular and Cellular Biology Admissions Committee (OSU)
- 1998-1999 President Biology Graduate Student Organization (SLU)
- 1999 Teller's committee - American Society of Parasitologists

Journal Reviewer:

*Advances in Parasitology, American Journal of Tropical Medicine and Hygiene, American Naturalist, Behavioral Ecology, Biological Invasions, Biological Journal of the Linnean Society, Biology Letters, BMC Ecology, BMC Evolutionary Biology, Comparative Parasitology, Current Zoology, Diseases of Aquatic Organisms, Evolutionary Applications, Experimental Parasitology, Helminthologia, Heredity, Infection Genetics and Evolution, International Journal for Parasitology, International Journal for Parasitology: Parasites and Wildlife, Journal of Fish Biology, Journal of Helminthology, Journal of Herpetology, Journal of Parasitology, Journal of the Royal Society Interface, Microbes and Infection, Marine Biology Progress Series, Molecular Biology and Evolution, Molecular and Biochemical Parasitology, Molecular Ecology, Molecular Ecology Resources, Molecular Phylogenetics and Evolution, Parasites & Vectors, Parasitology, PLOS Neglected Tropical Diseases, PLOS One, PLOS Pathogens, Proceedings of the National Academy of Sciences (USA), Proceedings of the Oklahoma Academy of Science, Proceedings of the Royal Society B, Transactions of the Royal Society of Tropical Medicine and Hygiene, Trends in Ecology and Evolution, Trends in Parasitology, Veterinary Parasitology, Veterinarski Arhiv.*

Top Reviewer for *Molecular Ecology* (2012, 2014, 2015)

Certificate of Excellence in Reviewing for *International Journal for Parasitology* (2014)

Certificate of Outstanding Contribution in Reviewing for *Infection, Genetics and Evolution* (2017)

Certificate of Outstanding Contribution in Reviewing for *Veterinary Parasitology* (2018)

Grant Reviewer:

National Institutes of Health: Genetic Variation and Evolution (GVE)

National Science Foundation:

Division of Environmental Biology (DEB): Systematic and Biodiversity Sciences Cluster

DEB: Dimensions of Biodiversity

Integrative Organismal Systems (IOS): Physiological and Structural Systems: Symbiosis, Defense and Self-recognition

Directorate for Geosciences (GEO): Office of Polar Programs: Antarctic Research

National Geographic Society

Leverhulme Trust, UK

Czech Science Foundation

Deutsche Forschungsgemeinschaft (German Research Foundation)

**PROFESSIONAL SOCIETIES:**

American Society of Parasitologists

Society for the Study of Evolution