

## **Jessica E. Light**

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### **Education**

Ph.D. Louisiana State University, Ph.D. in Zoology (1999-2005)  
B.S. University of Michigan, B.S. in Resource Ecology and Management (1994-1998)  
B.S. University of Michigan, B.S. in Biology (1994-1998)

### **Positions**

*Associate Editor*, Journal of Mammalogy (June 2016-present)  
*Associate Editor*, Evolution (January 2017-present)  
*Associate Professor and Curator*, Department of Wildlife and Fisheries Sciences,  
Texas A&M University (2015-present)  
*Assistant Professor and Curator*, Department of Wildlife and Fisheries Sciences,  
Texas A&M University (2009-2015)  
*Post-doctoral Researcher*, Florida Museum of Natural History, University of Florida (2006-2008)  
*Research Associate*, Moore Laboratory of Zoology, Occidental College (2007-2008)

### **Professional Service – Academic (Texas A&M University, Louisiana State University)**

*Co-Faculty Advisor*: Texas A&M University Student Chapter of the Wildlife Society (2014-present)  
*Undergraduate Curriculum Committee (Member)*: Department of Wildlife and Fisheries Sciences,  
Texas A&M University (2010-present)  
*Undergraduate Curriculum Revision Committee (Member)*: Department of Wildlife and Fisheries  
Sciences, Texas A&M University (2014-present)  
*Seminar Committee (Member)*: Department of Wildlife and Fisheries Sciences, Texas A&M University  
(2016-present)  
*Communications Chair*: Ecology and Evolutionary Biology Interdisciplinary Research Program,  
Texas A&M University (2015-2017)  
*Vertebrate Behavioral Ecologist Search Committee (Member)*: Department of Wildlife and Fisheries  
Sciences, Texas A&M University (2015-2016)  
*Faculty Advisory Board to the Department Chair (Member)*: Department of Wildlife and Fisheries  
Sciences, Texas A&M University (2012-2015)  
*Large Mammal Search Committee (Member)*: Department of Wildlife and Fisheries Sciences,  
Texas A&M University (2014-2015)  
*Treasury and Events Chair*: Ecology and Evolutionary Biology Interdisciplinary Research Program,  
Texas A&M University (2014-2015)  
*Department Chair Search Committee (Member)*: Department of Wildlife and Fisheries Sciences,  
Texas A&M University (2011-2012)  
*Member*: Department of Biological Sciences Seminar Committee, Louisiana State University (2002)  
*Organizer*: Museum of Natural Science Seminar Series, Louisiana State University (2000-2001)  
*Second Vice President*: Biology Graduate Student Association, Louisiana State University (2000)

## Professional Service – Societies and Federal Organizations

National Science Foundation Panel Service (Fall 2010, Spring 2014, Fall 2017)

Office of the Ombudsperson (Member): American Society of Mammalogists (2016-present)

Ad-hoc Committee (Publishing Obituaries; Member): American Society of Mammalogists (2016)

Program Committee (Member): American Society of Mammalogists (2014-present)

Sponsors and Vendors Subcommittee (Chair): American Society of Mammalogists (2014-present)

Informatics Committee (Member): American Society of Mammalogists (2014-2017)

Grants-in-Aid Committee: American Society of Mammalogists (2007-2013)

Honoraria Committee: American Society of Mammalogists (2007-2013)

Board of Directors: American Society of Mammalogists (2004-2007)

Membership Committee: American Society of Parasitologists (2014-present)

Student Awards Committee: American Society of Parasitologists (2008-2010)

McCarley Student Awards Committee: Southwestern Association of Naturalists (2010-2011, 2013)

## Awards and Honors

2014. Department of Wildlife and Fisheries Sciences Outstanding Undergraduate Teaching Award, Texas A&M University.

2004. Louisiana State University Graduate School Dissertation Fellowship.

2004. Outstanding Graduate Student Award. Museum of Natural Science, Louisiana State University.

2004. Meritorious Student Paper Award. Seventy-ninth Annual Meeting of The American Society of Parasitologists, Pennsylvania.

2004. Candidate for the Ernst Mayr Award (Society for Systematic Biologists).

2004. Anna M. Jackson Award, American Society of Mammalogists (\$600). *Two New Species of Pocket Gophers from Mexico; Extensive Cophylogeny Between Gophers and Chewing Lice.*

1998. Meritorious Student Paper Award. Seventy-third Annual Meeting of The American Society of Parasitologists, Hawai'i.

## Research Interests

Evolution, systematics, and population genetics of vertebrates and invertebrates. In particular, investigating cospeciation between mammals and their parasites to determine which factors are important in driving the associations between distantly related taxa.

## Ph.D. Dissertation

“Host-parasite cophylogeny and rates of evolution in two rodent-louse assemblages.”

Advisor: Mark S. Hafner.

## Grants, Scholarships and Fellowships \*graduate student co-PI

2017. National Science Foundation (\$562,084 in review). **J.E. Light**, S.E.H. Potvin, H.L. Presridge. *CSBR: Natural History: Critical database and digital asset management system improvements to the Biodiversity Research and Teaching Collections at Texas A&M University.*

2017. Texas Parks and Wildlife Department Conservation License Plate Grant Program (\$24,192 in review). *Status of Chaetodiopus nelsoni (Nelson's pocket mouse) in southwestern Texas.*

2017. Texas Parks and Wildlife Department State Wildlife Grant Program (\$83,506).

**J.E. Light.** *Status of Chaetodipus nelsoni (Nelson's pocket mouse) in the Southern Texas Plains and Edwards Plateau ecoregions of Texas.*

2017. Global Genome Initiative GGBN-GGI. H.L. Prestridge and **J.E. Light** (\$15,000).

*Digitization of vertebrate tissue collections at the Biodiversity Research and Teaching*

*Collections.*

2015. Texas A&M University-CONACYT Research Grant Program. **J.E. Light** and J.A. Fernández (\$23,967.27). *The Mexican Plateau as a center for diversification for arid land fauna: a comparative phylogeographic study of multiple rodent species.*
2014. National Science Foundation. J.W. Demastes, **J.E. Light**, and T.A. Spradling (\$149,937). *EAGER: Testing geographic range-expansion models: Population genetics of a colonizing parasite.*
2013. Texas EcoLabs; W. Preisser, S.A. Hamer, and **J.E. Light** (\$18,415). *Surveillance of tick-borne diseases in Texas.*
2013. Texas A&M University Invasive Ant Research and Management Project. **J.E. Light**, S.A. Hamer, M.D. Eubanks, G.L. Hamer, W.E. Grant, M.E. Morrow, and P.D. Teel (\$110,000). *Impact of red imported fire ants on small mammals, ticks, and tick-borne pathogens.*
2013. East Wildlife Foundation: G. Voelker, **J.E. Light**, and T. Hibbitts (\$876,067). *Biodiversity assessment: South Texas, with a focus on the South Texas Sand Sheet.*
2012. Texas EcoLab; S.A. Hamer and **J.E. Light** (\$20,847). *Wildlife sentinels for emerging tick-borne diseases in Texas.*
2010. Texas EcoLab: G. Voelker, **J.E. Light**, and J. Cary (\$15,836). *Biogeography of birds and small mammals in the central Texas transition zone, with special focus on Black-crested and Tufted Titmice hybridization, hispid pocket mouse population genetics, and host parasite-coevolution in pocket gophers.*
2010. Private Contract. G. Voelker, **J.E. Light**, and J. Cary (\$9,000). *Biogeography of birds and small mammals in the central Texas transition zone, with special focus on Black-crested and Tufted Titmice hybridization, hispid pocket mouse population genetics, and host parasite-coevolution in pocket gophers.*
2010. NSF DBI-0954113: G. Voelker, **J.E. Light**, and B.D. Marks (\$497,660). *A conservation imperative: replacement of bird and mammal specimen cases at Texas A&M.*
2009. Texas EcoLab: B.D. Marks, G. Voelker, and **J.E. Light** (\$24,000). *Biogeography of birds and small mammals in the central Texas transition zone.*
2007. NSF DEB-0717165: D.L. Reed, **J.E. Light**, L. Durden, and V. S. Smith (\$382,882). *Reconstructing the evolutionary history of bacterial endosymbiosis in obligate blood-feeding lice (Phthiraptera: Anoplura).* September 2007 – September 2010.
2005. Scholarship to attend the Workshop on Molecular Evolution at the Marine Biological Laboratory, Woods Hole (\$400).
2004. Louisiana State University Graduate School Dissertation Fellowship (\$18,000).
2004. Marc Dresden Travel Grant, American Society of Parasitologists (\$450).
2004. McDaniel Travel Grant, Department of Biological Sciences, LSU (\$825).
2003. NSF: Doctoral Dissertation Improvement Grant (\$12,000). *Systematics and Host-Parasite Associations of Rodent-Restricted Sucking Lice (Anoplura: Polyplacidae): Fahrenholzia lice and their Heteromyid Rodent Hosts.*
2003. Marc Dresden Travel Grant, American Society of Parasitologists (\$450).
2003. Department of Biological Sciences, LSU Travel Grant (\$150).
2003. LSU Graduate School Travel Grant (\$150).
2002. National Sigma Xi Grant-In-aid of research (\$600). *Molecular Study of Cophylogeny between Sucking Lice (Phthiraptera: Anoplura) and their Heteromyid Rodent Hosts.*
2002. Department of Biological Sciences, LSU Travel Grant (\$150).
2002. LSU Graduate School Travel Grant (\$150).
2002. Theodore Roosevelt Memorial Fund, American Museum of Natural History (\$1500). *Cophylogeny between sucking lice and their heteromyid hosts.*

2002. LSU Biology Grad Student Association Research and Travel Grant (\$600). *Coevolution between sucking lice and their heteromyid hosts*.
2001. LSU Biology Grad Student Association Research Grant (\$250). *Coevolution between sucking lice and their heteromyid hosts*.
2001. Sigma Xi LSU Chapter Grant-in-Aid of Research Honorable Mention (\$100). *Coevolution between sucking lice and their rodent hosts*.
2001. LSU Biology Grad Student Association Research Grant (\$200). *Coevolution between sucking lice and their mammalian hosts*.
2000. Theodore Roosevelt Memorial Fund of the American Museum of Natural History (\$1000). *Cospeciation between heteromyid rodents and their sucking lice (Anoplura)*.
2000. LSU Biology Grad Student Association Research Award (\$150). *Leech biology and phylogenetics*.
1998. Marc Dresden Travel Grant American Society of Parasitologists (\$400).
1998. CIC Women in Science and Engineering Initiative Travel Grant (\$250).
1998. The University of Michigan Department of Biology Travel Grant (\$250).
1998. NSF award (DEB-9840369) to Dr. Mark Siddall (\$3000) to support undergraduate research project on leech phylogenetics.

**Manuscripts in Review (\*\*undergraduate student author; \*graduate student author)**

- Light, J.E.**, S.E. Harper, K.P. Johnson, J.W. Demastes, and T.A. Spradling. Development and characterization of 12 novel polymorphic microsatellite loci for the mammal chewing louse *Geomydoecus aurei* (Insecta: Phthiraptera) using next-generation sequencing approaches. In review at *Journal of Parasitology*.
- Arcangeli, J., **J.E. Light** and F.A. Cervantes. Molecular and morphological evidences of diversification in the Grayish mouse opossum *Tlacuatzin canescens* (Didelphimorphia). In review at *Journal of Mammalogy*.

**Publications (\*\*undergraduate student author; \*graduate student author; †equal contributors)**

41. Galán, A.P.\* and **J.E. Light**. In press. Reptiles and amphibians associated with Texas Pocket Gopher (*Geomys personatus*) burrow systems across the Texas Sand Sheet. In press at *Herpetological Review*.
40. Takano, O.M.\*†, P.S. Mitchell\*\*†, D.R. Gustafsson, A. Adite, G. Voelker, and **J.E. Light**. 2017. An assessment of host associations, geographic distributions, and genetic diversity of avian chewing lice (Insecta: Phthiraptera) from Benin. *Journal of Parasitology* 103: 152-160.
39. Castellanos, A.A.\*†, M.C.I. Medeiros†, G.L. Hamer, M.E. Morrow, M.D. Eubanks, P.D. Teel, S.A. Hamer, and **J.E. Light**. 2016. Decreased small mammal and tick abundance in association with invasive red imported fire ants (*Solenopsis invicta*). *Biology Letters* 12: 20160463. Open Access: <http://rsbl.royalsocietypublishing.org/content/12/9/20160463?cpetoc>
38. Cook, J.A., S. Greiman, S. Agosta, R.P. Anderson, B.S. Arbogast, R.J. Baker, W. Boeger, R.D. Bradley, D.R. Brooks, R. Cole, J.R. Demboski, A.P. Dobson, J.L. Dunnum, R.P. Eckerlin, J. Esselstyn, K. Galbreath, J. Hawdon, H. Hoekstra, S. Kutz, **J.E. Light**, L. Olson, B.D. Patterson, J.L. Patton, A.J. Phillips, E. Rickart, D.S. Rogers, M.E. Siddall, V. Tkach, and E.P. Hoberg. 2016. Transformational principles for NEON sampling of mammalian parasites and pathogens: a response to Springer and Colleagues. *BioScience* 66: 917-919.
37. Allen, J.M., G. Burleigh, **J.E. Light**, and D.L. Reed. 2016. Effects of 16S rDNA sampling on estimates of endosymbiont lineages in sucking lice. *PeerJ* 4: e2187 <https://doi.org/10.7717/peerj.2187>.

36. **Light, J.E.**, M.O. Ostroff\*\*, and D.J. Hafner. 2016. Phylogeographic assessment of the northern pygmy mouse, *Baiomys taylori*. *Journal of Mammalogy* 97: 1081-1094.
35. **Light, J.E.**, C.E. Nessner\*, D.R. Gustafsson, S.R. Wise\*\*, and G. Voelker. 2016. Remarkable levels of avian louse (Insecta: Phthiraptera) diversity in the Congo Basin. *Zoologica Scripta* 45: 538-551.
34. Rodriguez, J.R.\* , S.A. Hamer, A.A. Castellanos\*, and **J.E. Light**. 2015. Structure and ecology of a rodent and tick community in east-central Texas. *Southeastern Naturalist* 14: 415-424.
33. Welborn, S.R.\* and **J.E. Light**. 2014. Population genetic structure of the Baird's pocket gopher, *Geomys breviceps*, in eastern Texas. *Western North American Naturalist* 74: 325-334.
32. Nessner, C.E.\* , J.J. Andersen\*, M.A. Renshaw, M. Giresi\*, and **J.E. Light**. 2014. Characterization of 17 novel polymorphic microsatellite loci in the mammal chewing louse *Geomydoecus ewingi* (Insecta: Phthiraptera) for population genetic analyses. *Journal of Parasitology* 100: 873-877.
31. Andersen, J.J.\* , D.S. Portnoy, J.C. Hafner, and **J.E. Light**. 2013. Populations at risk: conservation genetics of kangaroo mice (*Microdipodops*) of the Great Basin Desert. *Ecology and Evolution* 3: 2497-2513.
30. **Light, J.E.**, J.C. Hafner, N.S. Upham\*, and E. Reddington. 2013. Conservation genetics of kangaroo mice, genus *Microdipodops*. *Journal of Mammalian Evolution* 20: 129-146.
29. Voelker, G., B.D. Marks, C. Kahindo, U. A'genonga, F. Bapeamoni, L.E. Duffie\*\*, J.W. Huntley\*, E. Mulotha, S.A. Rosenbaum\*\*, and **J.E. Light**. 2013. River barriers and cryptic biodiversity in an evolutionary museum. *Ecology and Evolution* 3(3): 536-545.
28. Andersen, J.J.\* , M.A. Renshaw, and **J.E. Light**. 2012. Eight novel polymorphic microsatellites in the hispid pocket mouse (*Chaetodipus hispidus*) and cross-amplification in other Perognathinae species (Rodentia: Heteromyidae). *Conservation Genetics Resources* 4: 1019-1021 DOI : 10.1007/s12686-012-9697-3.
27. Andersen, J.J.\*\* and **J.E. Light**. 2012. Phylogeography and subspecies revision of the hispid pocket mouse, *Chaetodipus hispidus* (Rodentia: Heteromyidae). *Journal of Mammalogy* 93: 1195-1215.
26. Demastes, J.W., T.A. Spradling, M.S. Hafner, G.R. Spies, D. J. Hafner, and **J.E. Light**. 2012. Cophylogeny on a fine scale: *Geomydoecus* chewing lice and their pocket gopher hosts, *Pappogeomys bulleri*. *Journal of Parasitology* 98: 262-270.
25. Welborn, S.R.\* , M.A. Renshaw, and **J.E. Light**. 2012. Characterization of 10 polymorphic loci in the Baird's pocket gopher (*Geomys breviceps*) and cross-amplification in other gopher species. *Conservation Genetics Resources* 4: 467-469.
24. Voelker, G. and **J.E. Light**. 2011. Paleoclimatic events, dispersal and migratory losses along the Afro-European axis as drivers of biogeographic distribution in *Sylvia* warblers. *BMC Evolutionary Biology* 11: 163.
23. Smith, V.S., T. Ford, K.P. Johnson, P.C.D. Johnson, K. Yoshizawa, and **J.E. Light**. 2011. Multiple lineages of lice pass through the K-Pg boundary. *Biology Letters* 7: 782-785.
22. Touns, M.A.\* , A. Kitchen\*, **J.E. Light**, and D.L. Reed. 2011. Genetic analysis of human head and clothing lice indicates an early origin of clothing use in archaic hominins. *Molecular Biology and Evolution* 28: 29-32.
21. Lance, S.L., **J.E. Light**, K.L. Jones, C. Hagen, and J.C. Hafner. 2010. Isolation and characterization of 17 polymorphic loci in the kangaroo mouse, genus *Microdipodops* (Rodentia: Heteromyidae). *Conservation Genetics Resources* 2: 139-141.
20. **Light, J.E.**, V.S. Smith, J.M. Allen\*, L.A. Durden, and D.L. Reed. 2010. Evolutionary history of mammalian sucking lice (Phthiraptera: Anoplura). *BMC Evolutionary Biology* 10: 292 doi:10.1186/1471-2148-10-292

19. Musser, G.G., L.A. Durden, M.E. Holden, and **J.E. Light**. 2010. Systematic review of endemic Sulawesi squirrels (Rodentia, Sciuridae), with descriptions of new species of associated sucking lice (Insecta, Anoplura), and phylogenetic and zoogeographic assessments of sciurid lice. *Bulletin of the American Museum of Natural History* 339: 260 pages.
18. Allen, J.M.\*, **J.E. Light**, M.A. Perotti, H.R. Braig, and D.L. Reed. 2009. Mutational meltdown in primary endosymbionts: Selection limits Müller's ratchet. *PLoS ONE* 4(3): e4969.
17. Hafner, M.S., D.J. Hafner, J.W. Demastes, G.L. Hasty, **J.E. Light**, and T.A. Spradling. 2009. Evolutionary relationships of pocket gophers of the genus *Pappogeomys* (Rodentia: Geomyidae). *Journal of Mammalogy* 90(1): 47-56.
16. **Light, J.E.** and D.L. Reed. 2009. Multigene analysis of phylogenetic relationships and divergence times in primate sucking lice (Phthiraptera: Anoplura). *Molecular Phylogenetics and Evolution* 50: 376-390.
15. **Light, J.E.**, J.M. Allen\*, L.M. Long\*\*, T.E. Carter\*\*, L. Barrow\*\*, G. Suren, D. Raoult, and D.L. Reed. 2008. Geographic distribution of human head louse (*Pediculus humanus capitis*) mitochondrial lineages. *Journal of Parasitology* 94(6): 1275-1281.
14. V.S. Smith, **Light, J.E.**, and L.A. Durden. 2008. Rodent louse diversity, phylogeny, and cospeciation in the Manu Biosphere Reserve, Peru. *Biological Journal of the Linnean Society* 95(3): 598-610.
13. **Light, J.E.** and M.S. Hafner. 2008. Codivergence in heteromyid rodents (Rodentia: Heteromyidae) and their sucking lice of the genus *Fahrenholzia* (Phthiraptera: Anoplura). *Systematic Biology* 57(3): 449-465.
12. **Light, J.E.**, M.A. Toups, and D.L. Reed. 2008. What's in a name: taxonomic status of human head and body lice. *Molecular Phylogenetics and Evolution* 47(3): 1203-1216.
11. Raoult, D., D.L. Reed, K. Dittmar, J.J. Kirchman, J-M. Rolain, S. Guillen, and **J.E. Light**. 2008. Molecular identification of lice from pre-Columbian mummies. *Journal of Infectious Diseases* 197: 535-543.
10. **Light, J.E.** and M.S. Hafner. 2007b. Cophylogeny and disparate rates of evolution in sympatric lineages of chewing lice on pocket gophers. *Molecular Phylogenetics and Evolution* 45(3): 997-1013.
9. Hafner, J.C., **J.E. Light**, D.J. Hafner, M.S. Hafner, E. Reddington, D. S. Rogers, and B.R. Riddle. 2007. Basal clades and molecular systematics of heteromyid rodents. *Journal of Mammalogy* 88(5): 1129-1145.
8. **Light, J.E.** and M.S. Hafner. 2007a. Phylogenetics and host associations of *Fahrenholzia* sucking lice (Phthiraptera: Anoplura). *Systematic Entomology* 32(2): 359-370.
7. Reed, D.L., **J.E. Light**, J.M. Allen, and J.J. Kirchman. 2007. Pair of lice lost or parasites regained: the evolutionary history of Anthropoid primate lice. *BMC Biology* 5: 7. doi:10.1186/1741-7007-5-7.
6. Hafner, M.S., **J.E. Light**, D.J. Hafner, S.V. Brant, T.A. Spradling, and J.W. Demastes. 2005. Cryptic species in the Mexican pocket gopher *Cratogeomys merriami*. *Journal of Mammalogy* 86(6): 1095-1108.
5. Burreson, E.M., **J.E. Light** and J.I. Williams. 2005. Redescription of *Cystobranthus virginicus* Hoffman, 1964 and *Cystobranthus salmositicus* (Meyer, 1946) (Hirudinida: Piscicolidae) from freshwater fishes in North America. *Comparative Parasitology* 72(2): 157-165.
4. **Light, J.E.**, A. Fiumera, and B. Porter. 2005. Egg feeding in the freshwater piscicolid leech, *Cystobranthus virginicus* (Annelida: Hirudinea). *Invertebrate Biology* 124(1): 51-57.
3. Hafner, M.S., T.A. Spradling, **J.E. Light**, D.J. Hafner, and J.R. Demboski. 2004. Systematic revision of pocket gophers of the *Cratogeomys gymnurus* species group. *Journal of Mammalogy* 85(6): 1170-1183.

2. Demastes, J.W., A.L. Butt, M.S. Hafner, and **J.E. Light**. 2003. Systematics of a rare species of pocket gopher, *Pappogeomys alcorni*. *Journal of Mammalogy* 84(2): 753-761.
1. **Light, J.E.** and M.E. Siddall. 1999. Phylogeny of the leech family Glossiphoniidae based on mitochondrial gene sequences and morphological data. *Journal of Parasitology* 85(5): 815-823.

### **Book Chapters and Reviews (\*\*undergraduate student author; \*graduate student author)**

3. Allen, J.M., C.O. Worman, **J.E. Light**, and D.L. Reed. 2013. Parasitic lice help to fill in the gaps of early hominid history. *In Primates, Pathogens and Evolution*. E. Pechenkina and J. Brinkworth (eds), Springer, pp. 161-186.
2. **Light, J.E.** 2009. Evolutionary and Ecological Interactions between Micromammals and Macroparasites. Book review of *Micromammals and Macroparasites From Evolutionary Ecology to Management* by S. Morand, B.R. Krasnov, and R. Poulin (eds), Springer: Tokyo, 647 pp. *Journal of Mammalian Evolution* 16: 53-55.
1. Reed, D.L., M.A. Toups\*, **J.E. Light**, J.M. Allen\*, and S. Flannigan\*\*. 2009. Lice and other parasites as markers of primate evolutionary history. *In Primate Parasite Ecology: The Dynamics and Study of Host-Parasite Relationships*. C. Chapman and M. Huffman (eds). Cambridge University Press, pp 231-250.

### **Experience**

- 2015-present **Associate Professor and Curator of Mammals**, Department of Wildlife and Fisheries Sciences and Biodiversity Research and Teaching Collections, Texas A&M University.
- 2009-2015 **Assistant Professor and Curator of Mammals**, Department of Wildlife and Fisheries Sciences and Biodiversity Research and Teaching Collections, Texas A&M University.
- 2006-2008 **Postdoctoral Research Assistant**, Florida Museum of Natural History, University of Florida. Projects include: phylogenetics and population genetics of human lice, and cophylogeny of lice and their primate hosts.
- 2007-2008 **Research Associate**, Moore Laboratory of Zoology, Occidental College. Projects include: phylogenetics of heteromyid and geomyoid rodents.
- 2005 **Research Assistant**, Louisiana State University Museum of Natural Science: BioCorder (Biodiversity Recorder) Project (1 term). Assembled louse data to facilitate the storage, integration, and discovery of phylogenetic and biodiversity data.
- 2003-2004 **Research Assistant**, Louisiana State University Museum of Natural Science: MaNIS (Mammal Networked Information System) project. Assigned geographic coordinates to mammalian museum specimens. The purpose of this project was to develop an integrated network for distributed databases of mammal specimen data.
- 2002-2003 **Curatorial Assistant**, Louisiana State University Museum of Natural Science Collection of Mammals. Responsibilities included processing specimen loans, collection maintenance, managing curatorial employees, and computerization of over 35,000 specimens.

### **Teaching and Mentoring Experience**

- 2010-present **Instructor**, Spring or Fall Semesters. Natural History of Vertebrates WFSC 302 (undergraduate course). Ninety students enrolled/semester.
- 2010-present **Instructor**, Spring Semesters. Evolution discussion group (graduate course).
- 2009-present **Instructor**, Fall Semesters. General Mammalogy WFSC 401 (undergraduate course). Fifty-six students enrolled/semester.
- 2009-present Mentor of multiple undergraduate students in the laboratory (15 students to date)

- working on phylogenetics and population genetics of mammals and parasites,  
Texas A&M University
- 2009-present Mentor of multiple undergraduate volunteers and interns at the Biodiversity Research and Teaching Collections, Texas A&M University (20 students to date)
- 2006-2008 Mentor of 3 undergraduate students working on louse phylogenetics and population genetics, Florida Museum of Natural History
- 2004-2005 Mentor of 5 undergraduate students in the Museum of Natural Science, Louisiana State University
- 2005 **Teaching Assistant**, Louisiana State University: Honors Introductory Biology (1 term)
- 2003-2004 **Teaching Assistant**, Louisiana State University: Mammalogy (1 term)
- 1999-2002 **Teaching Assistant**, Louisiana State University: Introductory Biology (1 term), Introductory Zoology (1 term), Evolution (1 term), Parasitology (2 terms), and Mammalogy (1 term). I designed the Parasitology laboratory sections

### **Graduate Students Advised**

- Brittany Kerr 2017 – present; non-thesis M.S. distance student. Expected date of graduation: May 2020.
- Leila Siciliano-Martina 2016 – present; Ph.D. student co-advised with Dr. Michelle Lawing (ESSM). Expected date of graduation: May 2020.
- Bridgett Downs 2016 – present; M.S. student. Expected date of graduation: May 2018
- Adrian Castellanos 2013 – present; Ph.D. student. Expected date of graduation: May 2018.
- Whitney Preisser 2013 – present; Ph.D. student. Expected date of graduation: May 2018.
- Oona Takano 2013 – 2016; M.S. student, graduated December 2016. Currently employed by the Florida Museum of Natural History.
- Aleyda Galán 2013 – 2016; M.S. student, graduated December 2016. Currently employed at the Human Genome Sequencing Center at Baylor College of Medicine.
- Jaime Rodriguez 2012 – 2014; M.S. student, graduated August 2014. Currently in medical school at the University of Texas Southwestern Medical Center.
- Caitlin Nessner 2011 – 2014; M.S. student, graduated May 2014. Currently a project manager of the Human Genome Sequencing Center at Baylor College of Medicine.
- Sarah Rae Welborn 2009 – 2012; M.S. student, graduated August 2012. Currently an Education and Research Specialist at Lyndon B. Johnson State Park.
- John Jude Andersen 2010 – 2012; M.S. student, graduated May 2012. Currently a Watson NLP Algorithms Developer at IBM.

### **Graduate Student Committees In Progress**

- Andrew Anderson, Texas A&M University, Department of Biology (PhD)
- Alyson Brokaw, Texas A&M University, Ecology and Evolutionary Biology (PhD)
- Jennifer Cary, Texas A&M University, Department of Wildlife and Fisheries Sciences (PhD)
- Zachary Hancock, Texas A&M University, Department of Biology (PhD)
- Johanna Harvey, Texas A&M University, Department of Wildlife and Fisheries Sciences (PhD)
- Angela Hawkins, Texas A&M University, Department of Biology (PhD)
- Kaylee Hollingsworth, Texas A&M University, Department of Wildlife and Fisheries Sciences (PhD)
- Mackenzie Kjeldgaard, Texas A&M University, Department of Entomology (PhD)
- Bryant McDowell, Texas A&M University, Department of Entomology (MS)
- Alexa Swenson, Texas A&M University, Department of Wildlife and Fisheries Sciences (MS distance)



Derek Woller, Texas A&M University, Department of Entomology (PhD)

### **Student Committees Completed**

Therese Catanach, Texas A&M University, Department of Wildlife and Fisheries Sciences (PhD 2017)  
Jerry Huntley, Texas A&M University, Department of Wildlife and Fisheries Sciences (PhD 2017)  
John Pistone, Texas A&M University, Department of Wildlife and Fisheries Sciences (MS 2016)  
Kayce Bell, University of New Mexico, Department of Biology (PhD 2016)  
Kelsey Neam, Texas A&M University, Department of Wildlife and Fisheries Sciences (MS 2015)  
Nina Du Toit, Stellenbosch University, Department of Botany and Zoology (PhD 2014; outside reader)  
Anna J. Phillips, The City University of New York (CUNY) (PhD 2011)

### **Invited Talks Presented**

2017. *The Continued Importance of Natural History Museums as Data Sources for Evolutionary Studies*. Annual Meeting of the Canadian Society of Zoologists, the University of Manitoba, Winnipeg, Manitoba (May 2017).
2017. *Evolutionary Insights from Symbiotic Associations*. Federated Department of Biological Sciences, Ecology and Evolution Section, Rutgers University-Newark (April 2017).
2017. *Examination of Symbiotic Associations: Ecological and Evolutionary Insights*. Texas A&M University Student Chapter of the Zoological Society (March 2017).
2016. *Evolutionary and Ecological Assessments of Host-Parasite Associations*. National Science Foundation (December 2016).
2016. *Workshop on Work-Life Balance*. 96<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Minneapolis, Minnesota. I developed, ran, and moderated the workshop.
2016. *Are Lice Really That Lousy? Using Lice as Indicators of Host Evolutionary History*. Department of Entomology Spring 2016 Seminar Series, Texas A&M University (January 2016)
2014. *The Evolutionary History of Mammalian Lice*. Fifth International Conference on Phthiraptera. Park City, Utah (August 2014).
2014. *Ecological and Population Genetic Assessments of Host-Parasite Associations*. 94<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Oklahoma City, Oklahoma (June 2014).
2014. *Evolutionary Associations Among Symbiotic Organisms*. Texas A&M University Student Chapter of the Wildlife Disease Association, Texas A&M University, 2014.
2012. *Evolutionary Interactions Between Parasites and their Hosts*. Texas A&M Aggies for the Protection of Endangered Species, College Station, Texas.
2012. *Mammals and Lice: Evolutionary Insights from Host-Parasite Associations*. Department of Forestry and Natural Resources, Purdue University, West Lafayette, Indiana.
2012. *Mammals and Lice: Evolutionary Insights from Host-Parasite Associations*. Department of Biological Sciences, Louisiana State University, Baton Rouge, Louisiana.
2011. *Mammals and Lice: Evolutionary Insights from Host-Parasite Associations*. Evolutionary Studies Program at Binghamton University, Binghamton, New York.
2010. *A complicated history of association between primates and lice*. California Department of Public Health Vector-borne Disease Section, Vector Control Technician Continuing Education Series, Garden Grove, California (presentation recorded as a DVD).
2010. *Evolutionary history of mammalian sucking lice (Phthiraptera: Anoplura)*. Fifty-eighth Annual Meeting of the Entomological Society of America, San Diego, California.
2010. *Lice and Mice: Evolutionary Interactions Between Parasites and their Hosts*. Texas A&M University Zoological Society, College Station, Texas.
2010. *Estimating divergence times in mammalian sucking lice (Phthiraptera: Anoplura)*.

- Northeastern Symposium on Evolutionary Divergence Time, Rutgers University, the State University of New Jersey.
2009. *Evolutionary insights from Host-Parasite Interactions: Mammals and their Lice*. Texas A&M Program for Integrated Undergraduate Research Experiences in Biological and Mathematical Sciences, College Station, Texas.
2009. *Evolutionary Insights from Host-Parasite Interactions*. Field Museum, Chicago, Illinois.
2008. *Mammal Systematics and Evolutionary Insights from Host-Parasite Interactions*. Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, Texas.
2008. *Lice and Mammals: Evolutionary Insights from Host-Parasite Interactions*. Department of Zoology, Southern Illinois University, Carbondale, Illinois.
2008. *Mammals and Lice: Evolutionary Insights from Host-Parasite Interactions*. Department of Biology, Case Western Reserve University, Cleveland, Ohio.
2008. *Mammals and Lice: Evolutionary Insights into Host-Parasite Coevolution*. Department of Biology, Occidental College Darwin Day Talk, Los Angeles, California.
2007. *Evolutionary associations between primates and their ectoparasitic lice*. Oxford Brookes University, United Kingdom.
2007. *Evolutionary history of host-parasite associations: Mammals and their ectoparasitic lice*. Department of Entomology and Nematology Seminar Series, University of Florida, Florida.
2007. *Evolutionary history of host-parasite associations: Mammals and their ectoparasitic lice*. Beta Beta Beta Biological Honor Society Seminar Series, University of Tampa, Florida.
2006. *Tests for cospeciation: Explanations, how-to's, and suggestions based on empirical data*. Fifty-fourth Annual Meeting of the Entomological Society of America, Indianapolis, Indiana.

### Talks Presented

2016. *Are Lice Really That Lousy? Using Lice as Indicators of Host Evolutionary History*. Department of Wildlife and Fisheries Sciences Spring 2016 Seminar Series, Texas A&M University (January 2016)
2015. *Roost-site selection and movements of the Townsend's big-eared bat*. M. Morrison, J. Szewczak, L. Harris, **J.E. Light**, and O. Takano\*. 45<sup>th</sup> Annual Symposium of the North American Society for Bat Research, Monterey, California (October 2015; presented by M. Morrison).
2015. *The future of ASM meetings: 2016 and beyond*. C.W. Thompson, S.A. Jansa, K.C. Bell, B.R. Blood, M.J. Hamilton, J.D. Hanson, L.E. Helgen, **J.E. Light**, S.C. Loeb, V.L. Mathis, R.N. Platt II, M.A. Revelez, M.H. Schadler, W.P. Smith, K.A. Speer, P.A. Zollner, and T. Ballard. 95<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Jacksonville, Florida (June 2015; poster presented by C.W. Thompson).
2014. *Phylogenetic Relationships and Host Associations of Lice (Insecta: Phthiraptera)*. 89<sup>th</sup> Annual Meeting of the American Society of Parasitologists. New Orleans, Louisiana (July 2014).
2011. *Mammals and Lice: Evolutionary Insights from Host-Parasite Associations*. Department of Wildlife and Fisheries Sciences Brown Bag Seminar Series, Texas A&M University. College Station, Texas.
2009. *Reconstructing the Evolutionary History of Mammalian Sucking Lice*. The 10<sup>th</sup> International Mammalogical Congress. Mendoza, Argentina (poster).
2009. *Pair of Lice Lost: Parasites as Markers of Primate Evolutionary History*. Alliance for Bioinformatics, Computational Biology, and Systems Biology 2009 Workshop on Bioinformatics, Computational Biology, and Systems Biology. College Station, Texas.
2008. *Multigene Analysis of Phylogenetic Relationships and Divergence Times of Primate Sucking Lice (Phthiraptera: Anoplura)*. Evolution 2008 (Joint Meeting: The Society for the Study of

- Evolution, The American Society of Naturalists, and The Society for Systematic Biologists), Minneapolis, Minnesota.
2008. *Taxonomic Status, Geographic Distributions, and Origins of Human Head and Body Lice*. Eighty-third Annual Meeting of the American Society of Parasitologists, Arlington, Texas.
2006. *Phylogeny, Cophylogeny, and Molecular Rate Comparisons of Fahrenholzia Sucking Lice and their Heteromyid Hosts*. Third International Congress on Phthiraptera, Buenos Aires, Argentina.
2006. *Pair of Lice Lost: Parasites as Markers of Primate Evolutionary History*. Third International Congress on Phthiraptera, Buenos Aires, Argentina.
2006. *Cophylogeny and Molecular Rate Comparisons in Heteromyid Rodents and their Sucking Lice*. Eighty-sixth Annual Meeting of the American Society of Mammalogists, Amherst, Massachusetts.
2006. *Cophylogeny and Molecular Rate Comparisons in Heteromyid Rodents and their Sucking Lice*. Evolution 2006 (Joint Meeting: The Society for the Study of Evolution, The American Society of Naturalists, and The Society for Systematic Biologists), Stony Brook, New York.
2004. *Extensive Cophylogeny between Mexican Pocket Gophers and their Parasitic Chewing Lice*. Seventy-ninth Annual Meeting of the American Society of Parasitologists, Philadelphia, Pennsylvania.
2004. *Extensive Cophylogeny between Mexican Pocket Gophers and their Parasitic Chewing Lice*. Evolution 2004 (Joint Meeting: The Society for the Study of Evolution, The American Society of Naturalists, and The Society for Systematic Biologists), Fort Collins, Colorado.
2004. *Two New Species of Pocket Gophers from Mexico; Extensive Cophylogeny Between Gophers and Chewing Lice*. Eighty-fourth Annual Meeting of the American Society of Mammalogists, Arcata, California.
2004. *Extensive Cophylogeny between Mexican Pocket Gophers and their Parasitic Chewing Lice*. McDaniel Travel Grant Symposium, Department of Biological Sciences, Louisiana State University, Baton Rouge, Louisiana.
2003. *Molecular Systematics and Cophylogeny in Rodent-Restricted Sucking Lice (Anoplura: Polyplacidae)*. BioGrads Symposium, Department of Biological Sciences, Louisiana State University, Baton Rouge, Louisiana.
2003. *Molecular Systematics and Cophylogeny in Rodent-Restricted Sucking Lice (Anoplura: Polyplacidae)*. Seventy-eighth Annual Meeting of the American Society of Parasitologists, Halifax, Canada.
2003. *Systematics of Two Pocket Gopher Assemblages in Mexico*. Museum of Natural Science Seminar, Louisiana State University, Baton Rouge, Louisiana.
2002. *Systematics of the Cratogeomys gymnurus species complex based on morphological data*. Eighty-second Annual Meeting of the American Society of Mammalogists, Lake Charles, Louisiana.
2002. *Systematics of the Cratogeomys gymnurus species complex based on morphological data*. Evolution 2002 (Joint Meeting: The Society for the Study of Evolution, The American Society of Naturalists, and The Society for Systematic Biologists), Champaign, Illinois.
2002. *Cophylogeny between Fahrenholzia (Anoplura: Polyplacidae) and their heteromyid rodent hosts and preliminary systematics of Polyplacidae based on molecular data*. The Second International Congress on Phthiraptera, Brisbane, Australia.
2002. *Cophylogeny between Fahrenholzia (Anoplura: Polyplacidae) and their heteromyid rodent hosts and preliminary systematics of Polyplacidae based on molecular data*. The Tenth International Congress of Parasitology, Vancouver, Canada.
2001. *Coevolution between sucking lice and their mammalian hosts using molecular data*. Systematics, Ecology, and Evolution Seminar, Louisiana State University, Baton Rouge,

Louisiana.

1999. *Phylogeny of the leeches based on molecular and morphological data*. Evolution 1999 (Joint Meeting: The Society for the Study of Evolution, The American Society of Naturalists, and The Society for Systematic Biologists), Madison, Wisconsin (poster).
1999. *Phylogeny of the leech family Glossiphoniidae based on mitochondrial gene sequences and morphological data*. BioGrads Symposium, Department of Biological Sciences, Louisiana State University, Baton Rouge, Louisiana.
1999. *Phylogeny of the leech family Glossiphoniidae based on mitochondrial gene sequences and morphological data*. Museum of Natural Science Seminar, Louisiana State University, Baton Rouge, Louisiana.
1998. *Phylogeny of the leech family Glossiphoniidae based on mitochondrial gene sequences and morphological data*. Seventy-third Annual Meeting of the American Society of Parasitologists, Kona, Hawai'i.

### **Student and Co-author Talks Presented (\*\*undergraduate student; \*graduate student)**

2017. *Comparison of filtering schemes in ecological niche modeling using the Gulf Coast kangaroo rat, *Dipodomys compactus**. A.A. Castellanos\*, J.W. Huntley\*, **J.E. Light**, and A.M. Lawing. 2017 Annual Meeting of the Texas Society of Mammalogists, Junction, Texas (Feb. 2017).
2017. *Phylogeographic assessment of the Heermann's kangaroo rat (*Dipodomys heermanni*)*. B.B. Downs\* and **J.E. Light**. 2017 Annual Meeting of the Texas Society of Mammalogists, Junction, Texas (Feb. 2017).
2016. *Surveys of parasitic nematodes infecting cricetid rodents in Texas and Nebraska, with preliminary insights into the parasite latitudinal diversity gradient*. W.C. Preisser\* and **J.E. Light**. The 91<sup>st</sup> Annual Meeting of the American Society of Parasitologists, Edmonton, Alberta, Canada.
2016. *Preliminary phylogeographic analysis of *Sciurus variegatoides**. A.A. Castellanos\*, W.J. Murphy, and **J.E. Light**. The 96<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Minneapolis, Minnesota.
2016. *Diversity and biogeography of avian chewing lice (Insecta: Phthiraptera) in South Africa*. O.M. Takano\*, P. Mitchell\*\*, G. Voelker, and **J.E. Light**. Evolution 2016, Austin, Texas.
2016. *Host associations and geographic comparisons of avian chewing lice across Sub-Saharan Africa*. O.M. Takano\*, P. Mitchell\*\*, G. Voelker, and **J.E. Light**. 2016 Ecological Integration Symposium, Texas A&M University.
2016. *A survey of small mammal ectoparasites in south Texas*. H.A. Folmar\*\*, A.P. Galán\*, R.P. Eckerlin, T. Campbell, and **J.E. Light**. 2016 Ecological Integration Symposium, Texas A&M University. (poster)
2016. *Host associations and new geographic localities of parasitic chewing lice from Benin*. P.S. Mitchell\*\*, O.Takano\*, G. Voelker, and **J.E. Light**. 2016 Ecological Integration Symposium, Texas A&M University. (poster)
2016. *A survey of small mammal ectoparasites in south Texas*. H.A. Folmar\*\*, A.P. Galán\*, R.P. Eckerlin, T. Campbell, and **J.E. Light**. 2016 Annual Meeting of the Texas Chapter of the Wildlife Society. (poster)
2016. *More than storage: building biodiversity knowledge via scientific collections*. Galán, A.P.\* , O.M. Takano\*, P.S. Mitchell\*\*, and **J.E. Light**. 2016 Annual Meeting of the Texas Chapter of the Wildlife Society. (poster)
2015. *Host associations and diversity of two suborders of avian chewing lice from South Africa*. O.M. Takano\*, P. Mitchell\*\*, G. Voelker, and **J.E. Light**. 133rd Annual Meeting of the American

- Ornithologists' Union, Norman, Oklahoma.
2015. *Host associations of avian chewing lice (Phthiraptera: Amblycera) from South Africa*. P. Mitchell\*\*, O.M. Takano, G. Voelker, and **J.E. Light**. 133rd Annual Meeting of the American Ornithologists' Union, Norman, Oklahoma. (poster)
2015. *Host associations and genetic diversity of avian chewing lice (Insecta: Phthiraptera) from South Africa*. O.M. Takano\*, G. Voelker, and **J.E. Light**. Evolution 2015 Meeting, Guarujá, Brazil (poster).
2015. *Patterns of parasitism: the latitudinal diversity gradient of parasitic helminthes*. W.C. Preisser\*, N.O. Dronen, and **J.E. Light**. The 90<sup>th</sup> Annual Meeting of the American Society of Parasitologists, Omaha, Nebraska.
2015. *Endoparasite diversity of cricetid rodents in Costa Rica and Texas*. K.M. Lasater\*\*, W.C. Preisser\*, and **J.E. Light**. The 90<sup>th</sup> Annual Meeting of the American Society of Parasitologists, Omaha, Nebraska.
2015. *Small mammal interactions with invasive species: implications for tick-borne disease risk*. A.A. Castellanos\*, S.A. Hamer, L.D. Auckland, M.E. Morrow, and **J.E. Light**. 95<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Jacksonville, Florida.
2015. *Biodiversity assessment of small mammals, ticks, and tick-borne pathogens in South Texas*. A.P. Galán\*, H.A. Folmar\*\*, S.A. Hamer, T. Campbell, and **J.E. Light**. 95<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Jacksonville, Florida.
2015. *Small mammals and associated ectoparasites occupying distinct south Texas ecoregions*. H.A. Folmar\*\*, A.P. Galán\*, T. Campbell, and **J.E. Light**. 95<sup>th</sup> Annual Meeting of the American Society of Mammalogists, Jacksonville, Florida (poster).
2015. *Biodiversity assessment of small mammals, ticks, and tick-borne pathogens*. A.P. Galán\*, H.A. Folmar\*\*, T. Campbell, S.A. Hamer, and **J.E. Light**. 2015 Annual Meeting of the Texas Society of Mammalogists, Junction, Texas.
2015. *Biodiversity assessment of small mammals, ticks, and tick-borne pathogens*. A.P. Galán\*, H.A. Folmar\*\*, T. Campbell, S.A. Hamer, and **J.E. Light**. 2015 Annual Meeting of the Texas Chapter of the Wildlife Society.
2015. *Invaders of the Gulf Coastal Prairie: Effects of fire ants on small mammals and ticks*. A.A. Castellanos\*, S.A. Hamer, L.D. Auckland, G.L. Hamer, M.E. Morrow, P.D. Teel, M.D. Eubanks, and **J.E. Light**. 2015 Annual Meeting of the Texas Society of Mammalogists, Junction, Texas.
2014. *Host associations and genetic diversity of avian chewing lice from South Africa*. O.M. Takano\*, **J.E. Light**, and G.A. Voelker. Department of Wildlife and Fisheries Sciences, Texas A&M University, Lunchtime Seminar.
2014. *Invaders of the Gulf Coastal Prairie: effects of fire ants on small mammals and ticks*. A.A. Castellanos\*, S.A. Hamer, L.D. Auckland, G.L. Hamer, M.E. Morrow, P.D. Teel, M.D. Eubanks, and **J.E. Light**. Department of Wildlife and Fisheries Sciences, Texas A&M University, Lunchtime Seminar.
2014. *It's complicated: relationships between tick-borne disease systems and invasive ants*. A.A. Castellanos\*, S.A. Hamer, L.D. Auckland, G.L. Hamer, M.E. Morrow, P.D. Teel, M.D. Eubanks, and **J.E. Light**. Texas A&M University Student Chapter of the Wildlife Disease Association.
2014. *Host associations and genetic diversity of avian chewing lice (Insecta: Phthiraptera) from South Africa*. O.M. Takano\*, G. Voelker, and **J.E. Light**. Fifth International Congress on Phthiraptera. Park City, Utah.
2014. *Invasive ants as drivers of tick-borne disease systems*. A.A. Castellanos\*, S.A. Hamer, L.D.

- Auckland, G.L. Hamer, M.E. Morrow, P.D. Teel, and **J.E. Light**. The 89<sup>th</sup> Annual Meeting of the American Society of Parasitologists, New Orleans, Louisiana.
2014. *Tick-borne pathogens in a rodent community of east-central Texas*. J.E. Rodriguez\*, A.A. Castellanos\*, L.D. Auckland, **J.E. Light**, and S.A. Hamer. The 89<sup>th</sup> Annual Meeting of the American Society of Parasitologists, New Orleans, Louisiana.
2014. *Host associations and genetic diversity of avian chewing lice (Insecta: Phthiraptera) from South Africa*. O.M. Takano\*, G. Voelker, and **J.E. Light**. The 89<sup>th</sup> Annual Meeting of the American Society of Parasitologists, New Orleans, Louisiana (poster).
2014. *Rodent and parasite diversity at the Soltis Center in San Isidro, Costa Rica*. W.C. Preisser\*, M.J. Olmos\*\*, and **J.E. Light**. The 89<sup>th</sup> Annual Meeting of the American Society of Parasitologists, New Orleans, Louisiana (poster).
2014. *Impact of red imported fire ants on small mammals, ticks, and tick-borne pathogens*. A.A. Castellanos, S.A. Hamer, K.M. Wagner, G.L. Hamer, M.E. Morrow, P.D. Teel, M.D. Eubanks, and **J.E. Light**. Ecological Integration Symposium, Texas A&M University.(poster).
2014. *Impact of red imported fire ants on small mammals, ticks, and tick-borne pathogens*. A.A. Castellanos, S.A. Hamer, K.M. Wagner, G.L. Hamer, M.E. Morrow, P.D. Teel, M.D. Eubanks, and **J.E. Light**. Student Research Week, Texas A&M University (poster).
2014. *Impact of red imported fire ants on small mammals, ticks, and tick-borne pathogens*. A.A. Castellanos\*, S.A. Hamer, K.M. Wagner, G.L. Hamer, M.E. Morrow, P.D. Teel, M.D. Eubanks, and **J.E. Light**. 32<sup>nd</sup> Annual Meeting of the Texas Society of Mammalogists, Junction, Texas, (poster).
2013. *Population genetic analyses of chewing lice parasitizing pocket gophers*. C. Nessner\* and **J.E. Light**. 2013 Entomological Society of America Annual Meeting, Austin, Texas (poster).
2013. *Population genetic analyses of chewing lice (*Geomydoecus ewingi*) parasitizing pocket gophers (*Geomys breviceps*)*. C. Nessner\*. 2013 Entomological Society of America Annual Meeting, Austin, Texas.
2013. *Small rodent species as reservoirs for the zoonotic relapsing fever spirochete, *Borrelia miyamotoi**. J.E. Rodriguez\*, A. Castellanos\*, L.D. Auckland, **J.E. Light**, and S.A. Hamer. 2013 Entomological Society of America Annual Meeting, Austin, Texas (poster).
2013. *Wild rodents in the ecology of tick-borne pathogens in east-central Texas*. J.E. Rodriguez\*, A. Castellanos\*, L.D. Auckland, **J.E. Light**, and S.A. Hamer. The 63<sup>rd</sup> James Steele Conference on Diseases in Nature Transmissible to Man (DIN), Houston, Texas (poster).
2013. *Population genetics of chewing lice (*Geomydoecus ewingi*)*. C. Nessner\*. Texas A&M University Student Research Week (poster).
2013. *Population genetics of chewing lice (*Geomydoecus ewingi*)*. C. Nessner\*. Entomological Society of America, Southwestern Branch Meeting, Baton Rouge, Louisiana.
2012. *Population genetics of chewing lice (*Geomydoecus sp.*)*. C Nessner\*, **J.E. Light**, J.J. Andersen, and S.R. Welborn. 1<sup>st</sup> Joint Congress on Evolutionary Biology, Evolution Ottawa, Canada.
2011. *Population dynamics of the pallid kangaroo mouse, *Microdipodops pallidus**. J.J. Andersen\*, J.C. Hafner, and **J.E. Light**. Ninety-first Annual Meeting of the American Society of Mammalogists, Portland, Oregon.
2011. *Population genetic analyses of the Baird's pocket gopher, *Geomys breviceps**. S.R. Welborn\* and **J.E. Light**. Ninety-first Annual Meeting of the American Society of Mammalogists, Portland, Oregon.
2010. *Molecules and fossils – Divergence time estimation for studying the evolution of bioluminescence in Coleoptera*. M. Branham and **J.E. Light**. Fifty-eighth Annual Meeting of the Entomological Society of America, San Diego, California.

2010. *Phylogeographic assessment of the Hispid Pocket Mouse, Chaetodipus hispidus*. J.J. Andersen\*\* and **J.E. Light**. Ninetieth Annual Meeting of the American Society of Mammalogists, Laramie, Wyoming (poster).
2010. *Phylogeography of the Northern Pygmy Mouse, Baiomys taylori*. M.O. Ostroff\*\* and **J.E. Light**. Ninetieth Annual Meeting of the American Society of Mammalogists, Laramie, Wyoming (poster).
2010. *Why don't endosymbionts go extinct? Müller's Ratchet and selection in endosymbionts*. J.M. Allen, **J.E. Light**, M.A. Perotti, H.R. Braig, and D.L. Reed. Evolution 2010 (Joint Meeting: The Society for the Study of Evolution, The American Society of Naturalists, and The Society for Systematic Biologists), Portland, Oregon.
2010. *Coevolutionary history of sucking lice and their primary endosymbionts*. J.M. Allen, **J.E. Light**, and D.L. Reed. Fourth International Conference on Phthiraptera (ICP 4), Urgup, Cappadocia, Turkey.
2010. *Population genetic analysis of parasitic lice provides insight into the origin of human clothing*. M.A. Toups, A.A. Kitchen, **J.E. Light**, and D.L. Reed. Fourth International Conference on Phthiraptera (ICP 4), Urgup, Cappadocia, Turkey.
2010. *Genetic analysis of human head and clothing lice indicates an early origin of clothing use in archaic hominins*. A. Kitchen, M. Toups, **J.E. Light**, and D.L. Reed. Seventy-ninth Annual Meeting of the American Association of Physical Anthropologists, Albuquerque, New Mexico.
2009. *What prevents endosymbiont extinction? Müller's Ratchet vs. selection in primary endosymbionts*. J.M. Allen, **J.E. Light**, M.A. Perotti, H.R. Braig, and D.L. Reed. Southern Ecology and Evolution Conference, University of Florida.
2008. *Dramatic decrease in substitution rates over time in obligate endosymbionts: the role of selection in tempering Müller's Ratchet*. J.M. Allen, **J.E. Light**, M.A. Perotti, H.R. Braig, and D.L. Reed. Society for Molecular Biology and Evolution 2008 Annual Meeting, Barcelona, Spain (poster).
2008. *Population genetic analysis of parasitic lice provides insight into the origin of human clothing*. M.A. Toups, A. Kitchen, **J.E. Light**, and D.L. Reed. Society for Molecular Biology and Evolution 2008 Annual Meeting, Barcelona, Spain (poster).
2007. *Elevated rates of evolution in young assemblages of insects and their primary endosymbionts*. J.M. Allen, **J.E. Light**, M.A. Perotti, H.R. Braig, and D.L. Reed. University of Florida Genetics Symposium (poster).
2007. *Pair of lice lost or parasites regained: Using coevolutionary partners to uncover the past*. J.M. Allen, D.L. Reed, **J.E. Light**, J.J. Kirchman, and C.O. Worman. University of Florida Genetics Symposium (poster)
2007. *Are head lice and clothing lice genetically distinct? A coalescent approach using IM*. M. Toups, **J.E. Light**, and D.L. Reed. Evolution 2007 (Joint Meeting: The Society for the Study of Evolution, The American Society of Naturalists, and The Society for Systematic Biologists), Christchurch, New Zealand (poster).
2007. *Are head lice and clothing lice genetically distinct? A coalescent approach using IM*. M. Toups, **J.E. Light**, A. Kitchen, and D.L. Reed. University of Florida Genetics Symposium (poster).
2007. *The relationship between head lice and body lice*. M. Toups, **J.E. Light**, A. Kitchen, and D.L. Reed. Southeastern Population Ecology and Evolutionary Genetics Conference (poster).
2007. *Are head lice and clothing lice genetically distinct? A coalescent approach using IM*. M. Toups, **J.E. Light**, A. Kitchen, and D.L. Reed. Southeastern Population Ecology and Evolutionary Genetics Conference (poster).

## Abstracts Presented

1998. Montagnini, M.L., N.B. Alexander, L.V. Nyquist, **J.E. Light**, J.C. Grunawalt, R.S. Keller, D.A. Finch, and D.L. Snow. Mobility strategies in hospitalized older adults. *Journal of the American Geriatrics Society* 46: S103.
1997. Montagnini, M.L., N.B. Alexander, L.V. Nyquist, **J.E. Light**, J.C. Grunawalt, R.S. Keller, D.A. Finch, and D.L. Snow. 1997. Mobility performance of older adults in their hospital room. *Journal of the American Geriatric Society* 45: S64.
1997. Alexander, N.B., M.L. Montagnini, L.V. Nyquist, **J.E. Light**, J.C. Grunawalt, R.S. Keller, D.A. Finch, and D.L. Snow. 1997. Gap between self-report and performance-based disability assessment in hospitalized elderly. *Journal of the American Geriatrics Society* 45: S38.

## Professional Associations

American Society of Parasitologists, American Society of Mammalogists, Evolution Society, Society of Systematic Biologists, Southwestern Association of Naturalists, Texas Society of Mammalogists

## Journal Article Reviews

*American Midland Naturalist* (2001), *American Museum of Natural History Scientific Publications* (2003, 2013), *Bioinformatics* (2006), *Biological Journal of the Linnean Society* (2007, 2010, 2014), *Biology Letters* (2010), *BMC Evolutionary Biology* (2011), *BMC Genomics* (2014), *Bulletin of Entomological Research* (2011), *The Canadian Entomologist* (2011), *Comparative Parasitology* (2002, 2004, 2009, 2010, 2015), *Evolution* (2008, 2009, 2010, 2016), *Evolutionary Applications* (2011), *Folia Parasitologica* (2014), *Infection, Genetics and Evolution* (2015), *International Journal for Parasitology* (2011), *Journal of Biogeography* (2016), *Journal of Mammalian Evolution* (2008, 2016), *Journal of Mammalogy* (2008, 2009, 2012, 2013, 2014), *Journal of Medical Entomology* (2016), *Journal of Parasitology* (2006, 2007, 2008, 2009, 2010, 2014), *Mammalia* (2015), *Molecular Ecology* (2012, 2017), *Molecular Phylogenetics and Evolution* (2003, 2009, 2016, 2017), *Occasional Papers of the Museum* (2016), *Parasitology* (2012, 2015), *PLoS One* (2012, 2013), *Scientific Reports* (2014, 2015), *The Southwestern Naturalist* (2010, 2012), *Systematic Biology* (2006, 2016), *Systematic Entomology* (2016), *Zoological Science* (2014), *Zootaxa* (2006, 2007, 2013, 2016)

## Community Service

- Instructed 5-yr olds at Becky Gates Community Center about bats (November 2016)
- Instructed 4-yr olds at Becky Gates Community Center about mammals (June 2016)
- Participated in BioBlitz, sponsored by the Texas A&M University Conservation Society. Taught the general public about mammals, specifically pocket gophers (May 2016)
- Instructed College Station Consolidated High School students on mammal identification in preparation for the Texas Future Farmers of America wildlife and recreation management contest (April 2014)
- Presented mammal collection information for Texas Master Naturalists Program at the Biodiversity Research and Teaching Collections (February 2014)
- Panelist: “The Role of Collections in Disturbance and Recovery”, 2011 Ecological Integration Symposium, Texas A&M University (March, 2011)
- Presented research information for Texas Master Naturalists Program at the Texas Cooperative Wildlife Collection (August 1, 2009, October 20, 2009, October 27, 2010)



- Presented scientific career option to elementary students at Bates Academy, Detroit, Michigan (2008)
- Presented mammal material (specifically regarding Big Cats) at the University of Florida Fall fundraising event, Florida Museum of Natural History (2007)
- Displayed mammal preparations at the Florida Museum of Natural History as part of a Museum display for the annual meeting of the Florida Association of Museums (2006)
- Presented mammal material to children at the Presbyterian Day School, Baton Rouge, Louisiana (2001)
- Presented leech biology material to children at the Museum of Natural Science's monthly Special Saturday series (2000)
- Presented habitat diversity and leech biology material to children at Dalton Elementary School, Baton Rouge, Louisiana (2000)
- Presented marine biology material to children of Louisiana in connection with Louisiana State University's "Ocean Commotion" symposium (1999)
- Presented leech biology material to children at Prescott Middle School, Baton Rouge, Louisiana (1999)