

CURRICULUM VITAE

**HENRY M. STREBY**

Website: [www.henrystreby.com](http://www.henrystreby.com)

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Assistant Professor of Ecology  
The University of Toledo  
Department of Environmental Sciences

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**EDUCATION**

Ph.D. University of Minnesota – St. Paul, Minnesota (November 2010)  
Minnesota Cooperative Fish and Wildlife Research Unit  
Major: Wildlife Ecology and Management  
Minor: Statistics

M.S. Ohio University – Athens, Ohio (June 2005)  
Major: Ecology and Evolutionary Biology

B.S. Ohio University – Athens, Ohio (November 2001)  
Major: Wildlife Biology  
Certificate: Environmental Studies

*Additional postgraduate education*

2008, Preparing Future Faculty Program: University of Minnesota, St. Paul, Minnesota  
2004, Organization for Tropical Studies 04-1 Tropical Biology: Universidad de Costa Rica

*Additional professional development*

2020, Online Teaching Certificate Program, University of Toledo

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**PROFESSIONAL APPOINTMENTS**

August 2016 – Present (2020)  
*Assistant Professor of Ecology*  
University of Toledo, Department of Environmental Sciences

August 2015 – August 2016  
*Research Assistant Professor*  
University of Toledo, Department of Environmental Sciences

October 2015 – Present (2020)

*Adjunct Assistant Professor*

University of Tennessee, Department of Forestry Wildlife and Fisheries

April 2012 – Present (2020)

*Adjunct Assistant Professor*

University of Minnesota, Department of Fisheries, Wildlife, and Conservation Biology

August 2012 – July 2015

*National Science Foundation Postdoctoral Research Fellow in Biology*

Project: Range-wide migratory ecology and connectivity for full-life-cycle conservation of a climate-sensitive hybridizing songbird species complex: A large-scale collaboration including light-level geolocation, stable isotopes, genetics, color, and song analysis.

Sponsor: David A. Buehler, University of Tennessee, Department of Forestry Wildlife and Fisheries

August 2012 – July 2015

*Visiting Research Scholar*

University of California, Berkeley, Dept. of Environmental Science, Policy, and Management

Mentor: Steven R. Beissinger, University of California, Berkeley

December 2010 – August 2012

*Postdoctoral Research Associate*

University of Minnesota, Minnesota Cooperative Fish and Wildlife Research Unit

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## PEER-REVIEWED PUBLICATIONS

Papers (pdf) are available at [www.henrystreby.com](http://www.henrystreby.com)

**Symbology throughout this CV:** † = graduate student in my lab, †† = postdoc in my lab, + = graduate student in another lab in my department, \* = undergraduate student I mentored

### In prep and in review

Lots of stuff. We'll let you know when it's prepped and reviewed.

### In revision

Peterson, S.M., G.R. Kramer<sup>†</sup>, J. Feura, **H.M. Streby**, and D.E. Andersen. Sex-based differences of parental care in divided broods of Golden-winged Warblers. *In revision* with Ibis.

### Published

#### 2020

49. Toews, D.P.L., G.R. Kramer<sup>†</sup>, A.W. Jones, C.L. Brennan, B.E. Cloud, D.E. Andersen, I.J. Lovette, and **H.M. Streby**. 2020. Genomic identification of intergeneric hybrids in New World wood warblers (Aves: Parulidae). Biological Journal of the Linnean Society. doi.org/10.1093/biolinnean/blaa085.

48. Baiz, M.D., G.R. Kramer<sup>†</sup>, **H.M. Streby**, S.A. Taylor, I.J. Lovette, and D.P.L. Toews. 2020. Genomic and plumage variation in *Vermivora* hybrids. The Auk: Ornithological Advances. doi.org/10.1093/auk/ukaa027.  
-cover image-
47. Qian, S.S., J.R. Refsnider, J.A. Moore, G.R. Kramer<sup>†</sup>, and **H.M. Streby**. 2020. All tests are imperfect: Accounting for false positives and false negatives using Bayesian statistics. Heliyon. doi.org/10.1016/j.heliyon.2020.e03571.
46. Pagel, R.K.<sup>†</sup>, E.H. West<sup>††</sup>, A.W. Jones, and **H.M. Streby**. 2020. Facultative migratory movements in red-headed woodpeckers (*Melanerpes erythrocephalus*) and consequences for conservation. Movement Ecology 7:9-18. doi.org/10.1515/ami-2020-0002.
45. Kramer, G.R.<sup>†</sup>, R.K. Pagel<sup>†</sup>, K. Maley, C. Ziegler, S.M. Peterson, D.E. Andersen, D.A. Buehler, P.B. Wood, and **H.M. Streby**. 2020. Say what? Bivalent singing in *Vermivora* warblers. Ecology. https://doi.org/10.1002/ecy.2881.

## 2019

44. Kramer, G.R.<sup>†</sup>, K.O. Daly, **H.M. Streby**, and D.E. Andersen. 2019. Association between American Woodcock seasonal productivity and landscape composition and configuration in Minnesota. Proceedings of 11th American Woodcock Symposium. doi.org/10.24926/AWS.0115.
43. Toews, D.P.L., S.A. Taylor, **H.M. Streby**, G.R. Kramer<sup>†</sup>, and I.J. Lovette. 2019. Selection on *VPS13A* linked to long-distance migratory behavior in a songbird. Proceedings of the National Academy of Sciences 116: 18272-18274.
42. Kramer, G.R.<sup>†</sup>, S.M. Peterson, K.O. Daly, **H.M. Streby**, and D.E. Andersen. 2019. Left out in the rain: comparing productivity of two associated species exposes a leak in the umbrella species concept. Biological Conservation. doi.org/10.1016/j.biocon.2019.02.039.
41. Refsnider, J.M., S.E. Carter<sup>†</sup>, G.R. Kramer<sup>†</sup>, A.D. Siefker\*, and **H.M. Streby**. 2019. Is dietary or microhabitat specialization associated with environmental heterogeneity in horned lizards (*Phrynosoma*)? Ecology and Evolution. https://doi.org/10.1002/ece3.5109.  
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## 2018

40. Toews, D.P.L., **H.M. Streby**, L. Burkett, and S.A. Taylor. 2018. A wood-warbler produced through both interspecific and intergeneric hybridization. Biology Letters. http://dx.doi.org/10.1098/rsbl.2018.0557.
39. Taff, C.C., C.R. Freeman-Gallant, **H.M. Streby**, and G.R. Kramer<sup>†</sup>. 2018. Geolocator deployment reduces return rate, alters selection, and impacts demography in a small songbird. PlosOne 13: e0207783.
38. Brinkerhoff, R.J., L. Dang, **H.M. Streby**, and M. Gimpel. 2018. Life history characteristics of birds influence patterns of tick parasitism. Infection Ecology and Epidemiology. 9:1. DOI: 10.1080/20008686.2018.1547096.

37. Refsnider, J.M., S.S. Qian, **H.M. Streby**, S.E. Carter\*, I.T. Clifton<sup>+</sup>, A.D. Siefker\*, and T.K. Vasquez<sup>+</sup>. 2018. Reciprocally-transplanted lizards along an elevational gradient match light-environment use of local lizards via phenotypic plasticity. Functional Ecology. doi.org/10.1111/1365-2435.13071.
36. Kramer, G.R.<sup>†</sup>, D.E. Andersen, D.A. Buehler, P.B. Wood, S.M. Peterson, J.A. Lehman, K.R. Aldinger, L.P. Bulluck, S. Harding, J.A. Jones, J.P. Loegering, C. Smalling, R. Vallender, and **H.M. Streby**. 2018. Population trends in *Vermivora* warblers are linked to strong migratory connectivity. Proceedings of the National Academy of Sciences. doi.org/10.1073/pnas.1718985115.
35. **Streby, H.M.**, G.R. Kramer<sup>†</sup>, S.M. Peterson, and D.E. Andersen. 2018. Evaluating outcomes of management targeting the recovery of a migratory songbird of conservation concern. PeerJ DOI 10.7717/peerj.4319.
34. **Streby, H.M.**, G.R. Kramer<sup>†</sup>, S.M. Peterson, J.A. Lehman, D.A. Buehler, and D.E. Andersen. 2018. Carefully interpreted light-level geolocator data can lead to the discovery of interesting animal behavior (Response to Lisovski et al.). Current Biology 28:101-102.
- 2017**
33. **Streby, H.M.** and G.R. Kramer<sup>†</sup>. 2017. Comment on "Mixed effects of geolocators on reproduction and survival of Cerulean Warblers, a canopy-dwelling, long-distance migrant". The Condor: Ornithological Applications 119:848-851.
32. Kramer, G.R.<sup>†</sup>, **H.M. Streby**, S.M. Peterson, J.A. Lehman, D.A. Buehler, P.B. Wood, D.J. McNeil, J.L. Larkin, and D.E. Andersen. 2017. Nonbreeding isolation and population-specific migration patterns among three populations of golden-winged warblers. The Condor: Ornithological Applications 119:108-121.
- 2016**
31. Peterson, S.M., **H.M. Streby**, and D.E. Andersen. 2016. Spatially explicit models of full-season productivity and implications for landscape management of golden-winged warblers in the western Great Lakes region. Pp. 141-160 in H.M. Streby, D.E. Andersen, and D.A. Buehler, editors. Golden-winged warbler ecology, conservation, and management. Studies in Avian Biology (no. 49) CRC Press. Boca Raton, FL, USA.
30. Peterson, S.M., **H.M. Streby**, and D.E. Andersen. 2016. Management implications of brood division in golden-winged warblers. Pp. 161-171 in H.M. Streby, D.E. Andersen, and D.A. Buehler, editors. Golden-winged warbler ecology, conservation, and management. Studies in Avian Biology (no. 49) CRC Press. Boca Raton, FL, USA.
29. **Streby, H.M.**, S.M. Peterson, and D.E. Andersen. 2016. Golden-winged warbler fledgling habitat use and survival in the western Great Lakes region. Pp. 127-140 in H.M. Streby, D.E. Andersen, and D.A. Buehler, editors. Golden-winged warbler ecology, conservation, and management. Studies in Avian Biology (no. 49) CRC Press. Boca Raton, FL, USA.

28. **Streby, H.M.**, R.W. Rohrbaugh, D.A. Buehler, D.E. Andersen, R. Vallender, D.I. King, and T. Will. 2016. Research on golden-winged warblers: recent progress and current needs. Pp. 217-227 in H.M. Streby, D.E. Andersen, and D.A. Buehler, editors. *Golden-winged warbler ecology, conservation, and management*. Studies in Avian Biology (no. 49) CRC Press. Boca Raton, FL, USA.

## 2015

27. Peterson, S.M., **H.M. Streby**, G.R. Kramer, A.C. Fish, and D.E. Andersen. 2015. High tech or field techs: radio telemetry is a cost-effective method for reducing bias in songbird nest searching. Condor: Ornithological Applications 117:386-395.
26. **Streby, H.M.**, G.R. Kramer, S.M. Peterson, J.A. Lehman, D.A. Buehler, and D.E. Andersen. 2015. Tornadoic storm avoidance behavior in breeding songbirds. Current Biology 25:249-255.  
*-reached 99<sup>th</sup> percentile of all articles ever tracked by Altmetric in less than 48 hours-*
25. **Streby, H.M.**, S.M. Peterson, G.R. Kramer, and D.E. Andersen. 2015. Post-independence fledgling ecology in a migratory songbird: implications for breeding-grounds conservation. Animal Conservation 18:228-235.
24. **Streby, H.M.**, T.L. McAllister, G.R. Kramer, S.M. Peterson, J.A. Lehman, and D.E. Andersen. 2015. Minimizing marker mass and handling time when attaching radio transmitters and geolocators to small songbirds. Condor: Ornithological Applications 117:256-261.
23. Peterson, S.M., G.R. Kramer, **H.M. Streby**, J.A. Lehman, D.A. Buehler, and D.E. Andersen. 2015. Geolocators on golden-winged warblers do not affect migratory ecology. Condor: Ornithological Applications 117:249-255.

## 2014

22. **Streby, H.M.**, J.M. Refsnider, and D.E. Andersen. 2014. Redefining reproductive success in songbirds: moving beyond the nest-success paradigm. Auk: Ornithological Advances. 131:718-726.
21. **Streby, H.M.**, J.M. Refsnider, S.M. Peterson, and D.E. Andersen. 2014. Retirement investment theory explains patterns in songbird nest-site choice. Proceedings of the Royal Society B 281:20131834. *-Cover Image-*
20. **Streby, H.M.**, S.M. Peterson, J.A. Lehman, G.R. Kramer, B.J. Vernasco, and D.E. Andersen. 2014. Do digestive contents confound body mass as a measure of relative condition in nestling songbirds? Wildlife Society Bulletin 38:305–310.

## 2013

19. **Streby, H.M.** and D.E. Andersen. 2013. Movements, cover-type selection, and survival of fledgling ovenbirds in managed deciduous and mixed-coniferous forests. Forest Ecology and Management 287:9-16.

18. **Streby, H.M.**, S.M. Peterson, J.A. Lehman, G.R. Kramer, K.J. Iknayan, and D.E. Andersen. 2013. The effects of force-fledging and premature fledging on the survival of nestling songbirds. Ibis 155:616-620.
17. **Streby, H.M.** and D.E. Andersen. 2013. Survival of fledgling ovenbirds: influences of habitat characteristics at multiple spatial scales. Condor 115:403-410.
16. **Streby, H.M.** and D.E. Andersen. 2013. Testing common assumptions in studies of songbird nest success. Ibis 155:327-337.
15. **Streby, H.M.**, B. Scholtens, A.P. Monroe, S.M. Peterson, and D.E. Andersen. 2013. The Ovenbird (*Seiurus aurocapilla*) as model for testing food-value theory. American Midland Naturalist 169:214-220.
14. **Streby, H.M.**, S.M. Peterson, C.F. Gesmundo, M.K. Johnson, A.C. Fish, J.A. Lehman, and D.E. Andersen. 2013. Radio-transmitters do not affect seasonal productivity of female golden-winged warblers. Journal of Field Ornithology 84:316-321.

## 2012

13. **Streby, H.M.** and D.E. Andersen. 2012. Movements and cover-type selection by fledgling ovenbirds after independence from adult care. Wilson Journal of Ornithology 124:621-626.
12. **Streby, H.M.**, J.P. Loegering, and D.E. Andersen. 2012. Spot mapping underestimates song-territory size and use of mature forest by breeding male golden-winged warblers in Minnesota, USA. Wildlife Society Bulletin 36:40-46. -Cover Image-
11. Peterson, S.M., **H.M. Streby**, and D.E. Andersen. 2012. Effects of brood parasitism by brown-headed cowbirds may persist into post-fledging. Wilson Journal of Ornithology 124:183-186.

## 2011

10. **Streby, H.M.** and D.E. Andersen. 2011. Seasonal productivity in a population of migratory songbirds: why nest data are not enough. Ecosphere 2(78):1-15.
9. **Streby, H.M.**, S.M. Peterson, T.L. McAllister, and D.E. Andersen. 2011. Use of early-successional managed northern forest by mature-forest species during the post-fledging period. Condor 113:817-824.
8. **Streby, H.M.**, S.M. Peterson, and D.E. Andersen. 2011. Invertebrate availability and vegetation characteristics explain use of non-nesting cover types by mature forest songbirds during the post-fledging period. Journal of Field Ornithology 82:406-414.
7. Refsnider, J.M., T.S. Mitchell, **H.M. Streby**, J.T. Strickland, D.A. Warner, and F.J. Janzen. 2011. A generalized method to determine detectability of rare and cryptic species using the ornate box turtle as a model. Wildlife Society Bulletin 35:93-100.
6. Brinkerhoff, R.J., C. Folsom-O'Keefe, **H.M. Streby**, S.J. Bent, K. Tsao, D. Fish, and M. Diuk-Wasser. 2011. Regional variation in immature *Ixodes scapularis* parasitism on North

American songbirds: implications for the spread of the Lyme pathogen, *Borrelia burgdorferi*. Journal of Medical Entomology 48:422-428.

5. Kapfer, P.M., **H.M. Streby**, B. Gurung, A. Simcharoen, C.C. McDougal, and J.L.D. Smith. 2011. Fine-scale spatiotemporal variation in tiger (*Panthera tigris*) diet in Chitwan National Park, Nepal. Wildlife Biology 17:1-9.

### **2010 and Earlier**

4. **Streby, H.M.** and D.B. Miles. 2010. Assessing ecosystem restoration alternatives in eastern deciduous hardwood forest using avian nest survival. Open Environmental Sciences 4:39-48.
3. **Streby, H.M.**, S.M. Peterson, and P.M. Kapfer. 2009. Fledging success is a poor indicator of the effects of blow fly infestation on ovenbird survival. Condor 111:193-197.
2. **Streby, H.M.**, J.M. Refsnider, S.M. Peterson, and D.E. Andersen. 2008. Barred owl predation on hermit thrush and ovenbird fledglings. Journal of Raptor Research 42:296-298.
1. Refsnider, J., J. Moore, and **H. Streby**. 2008. *Sphenodon punctatus* (common tuatara): prey detection. Herpetological Review 39:347-348.

### **Citation Indices (Google Scholar)**

(as of 23 October 2020)

Citations	969
h-index	18
i10-index	29

### **Other Edited Contributions**

Authored two highlight boxes that are featured in a chapter on Movement Ecology in the textbook “Ornithology: Foundation Analysis and Application” (Morrison et al. Editors). September 2018.

Published a Photo Gallery piece in Ecology accompanying our paper on bivalent singing in *Vermivora* warblers. doi.org/10.1002/bes2.1627.

### **Edited Volume**

**Streby, H.M.**, D.E. Andersen, and D.A. Buehler, Eds. 2016. Golden-winged Warbler Ecology, Conservation, and Habitat Management. Studies in Avian Biology. CRC Press. Boca Raton, Florida, USA.

### **Technical Reports Authored**

- Kramer, G.R., **H.M. Streby**, S.M. Peterson, and D.E. Andersen. 2017. Range-wide migratory connectivity for full-cycle conservation of the golden-winged warbler, a climate-sensitive songbird of highest conservation concern: Annual Summary Report. Research Work Order 98, U.S. Geological Survey, Minnesota Cooperative Fish and Wildlife Research Unit.
- Streby, H.M.**, G.R. Kramer, S.M. Peterson, and D.E. Andersen. 2016. Range-wide migratory connectivity for full-cycle conservation of the golden-winged warbler, a climate-sensitive songbird of highest conservation concern: Annual Summary Report. Research Work Order 98, U.S. Geological Survey, Minnesota Cooperative Fish and Wildlife Research Unit.

- Kramer, G.R., **H.M. Streby**, S.M. Peterson, and D.E. Andersen. 2015. Range-wide migratory connectivity for full-cycle conservation of the golden-winged warbler, a climate-sensitive songbird of highest conservation concern: Annual Summary Report. Research Work Order 98, U.S. Geological Survey, Minnesota Cooperative Fish and Wildlife Research Unit.
- Kramer, G.R., **H.M. Streby**, S.M. Peterson, and D.E. Andersen. 2014. Range-wide migratory connectivity for full-cycle conservation of the golden-winged warbler, a climate-sensitive songbird of highest conservation concern: Annual Summary Report. Research Work Order 98, U.S. Geological Survey, Minnesota Cooperative Fish and Wildlife Research Unit.
- Streby, H.M.**, G.R. Kramer, S.M. Peterson, and D.E. Andersen. 2013. Range-wide migratory connectivity for full-cycle conservation of the golden-winged warbler, a climate-sensitive songbird of highest conservation concern: Annual Summary Report. Research Work Order 98, U.S. Geological Survey, Minnesota Cooperative Fish and Wildlife Research Unit.
- Streby, H.M.**, S.M. Peterson, and D.E. Andersen. 2013. Golden-winged warbler demography and habitat associations in Minnesota. Final Report to Minnesota Department of Natural Resources and U.S. Fish and Wildlife Service.
- Streby, H.M.** and D.E. Andersen. 2011. Nesting success of golden-winged warblers in managed forests of northern Minnesota. Report to Minnesota Department of Natural Resources.
- Streby, H.M.**, S.M. Peterson, and D.E. Andersen. 2010, 2011, 2012, and 2013. Demographic response of golden-winged warbler to habitat and management across a climate change gradient in the core of the species' range: Annual Summary Reports. Research Work Order 87, U.S. Geological Survey, Minnesota Cooperative Fish and Wildlife Research Unit.
- Streby, H.M.** and D.E. Andersen. 2006, 2007, 2008, 2009, and 2010. Habitat use of post-fledging forest-nesting songbirds in northern hardwood-coniferous forests in northern Minnesota: Annual Summary Reports and Final Report. Research Work Order 73, U.S. Geological Survey, Minnesota Cooperative Fish and Wildlife Research Unit.

#### GRADUATE STUDENT ADVISING

- Silas E. Fischer, Ph.D., University of Toledo *2020 – Present*  
 UT University Fellowship Recipient  
 Dissertation topic: Avian migration ecology and artscience communication
- Andrea L. Lindsay (FKA Cray), Ph.D., University of Toledo *2017 – Present*  
 UT University Fellowship Recipient  
 Dissertation topic: Analysis of long-term banding datasets and experimenting with stable isotopes in avian adipose tissue
- Gunnar R. Kramer, Ph.D., University of Toledo *2016 – Present*  
 UT Graduate Dean's Fellowship Recipient  
 Dissertation topic: Range-wide migration ecology and annual cycle conservation of *Vermivora* warblers
- Silas E. Fischer, M.S., University of Toledo *2017 – 2020*  
 Thesis: Post-fledging and Migration Ecology of Gray Vireos (*Vireo vicinior*) and Using ArtScience to Explore Gender and Identity
- R. Kyle Pagel, M.S., University of Toledo *2017 – 2019*  
 Thesis: Annual Cycle Demography, Habitat Associations, and Migration Ecology in Red-headed Woodpeckers (*Melanerpes erythrocephalus*)



Gunnar R. Kramer, M.S., University of Minnesota                      *2013 – 2016*  
Co-advised with Dr. David E. Andersen, USGS  
Thesis: Spatially explicit models of full-season productivity in a game bird and migration ecology in a songbird of conservation concern

Sean M. Peterson, M.S., University of Minnesota                      *2011 – 2014*  
Co-advised with Dr. David E. Andersen, USGS  
Thesis: Landscape productivity and the ecology of brood division in golden-winged warblers in the western Great Lakes region.

**GRADUATE COMMITTEES SERVED**

Joshua Otten, Ph.D., University of Toledo                              *2019 – present*  
Advised by Dr. Jeanine M. Refsnider, University of Toledo

Tamara Phares, M.S., University of Toledo                              *2019 – present*  
Advised by Dr. Jonathan Bossenbroek, University of Toledo

Sarah E. Carter, M.S., University of Toledo                              *2018 – present*  
Advised by Dr. Jeanine M. Refsnider, University of Toledo

Austin Hulbert, M.S., University of Toledo                              *2018 – present*  
Advised by Dr. Jeanine M. Refsnider, University of Toledo

Ian T. Clifton, Ph.D., University of Toledo                              *2017 – present*  
Advised by Dr. Jeanine M. Refsnider, University of Toledo

Stephanie A. Nummer, Ph.D., University of Toledo                      *2017 – present*  
Advised by Dr. Song S. Qian, University of Toledo

Jessica A. Garcia, M.S., University of Toledo                              *2017 – 2018*  
Advised by Dr. Jeanine M. Refsnider, University of Toledo

Clay Delancy, M.S., Ball State University                              *2016 – 2018*  
Advised by Dr. Kamal Islam, Ball State university

Tyara K. Vazquez, M.S., University of Toledo                              *2015 – 2018*  
Advised by Dr. Jeanine M. Refsnider, University of Toledo

Justin A. Lehman, M.S., University of Tennessee                      *2013 – 2018*  
Advised by Dr. David A. Buehler, University of Tennessee

**GRANTS, AWARDS, AND RESEARCH FUNDING**

University of Toledo Research Awards and Fellowships Share With Wildlife Program	\$ 15,000	2020
New Mexico Department of Game and Fish Share With Wildlife Program	\$ 33,435	2019
New Mexico Department of Game and Fish	\$ 23,000	2018
University of Toledo Research Awards and Fellowships Competitive State Wildlife Grant	\$ 17,000	2018
With Ohio DNR and Michigan DNR, from USFWS	\$435,602	2017
USFWS Sub-award through The Nature Conservancy The Wildlife Society, Best Edited Volume	\$ 21,067	2017
The Conservation Fund Research Grant Written for Black Swamp Bird Observatory	\$ 20,972	2016
National Geographic Society Research and Exploration Grant (successful application but I did not accept funding)	\$ 17,600	2015
Cooper Ornithological Society Young Professional Award	\$ 1,300	2013
National Science Foundation Postdoctoral Research Fellowship	\$189,000	2012
U.S. Geological Survey Cooperative Research Unit Funds	\$ 63,000	2012
U.S. Fish and Wildlife Service, Region 3	\$ 51,000	2012
U.S. Fish and Wildlife Service and U.S. Geological Survey, Science Support Partnership	\$150,000	2012
Minnesota Department of Natural Resources, State Wildlife Grant U.S. Fish and Wildlife Service	\$ 64,225	2012
Minnesota Department of Natural Resources, State Wildlife Grant U.S. Fish and Wildlife Service, Region 3 Strategic Conservation Team Achievement Award	\$ 2,400	2011
Minnesota Department of Natural Resources, State Wildlife Grant U.S. Fish and Wildlife Service, Region 3 Strategic Conservation Team Achievement Award	\$ 14,500	2011
Cooper Ornithological Society Student Membership Award	-	2010
Doctoral Dissertation Fellowship, University of Minnesota	\$ 22,500	2009
Dayton-Wilkie Research Fellowship, Bell Museum of Natural History	\$ 900	2009
Dayton-Wilkie Research Fellowship, Bell Museum of Natural History	\$ 800	2008
Most Outstanding MS Student, Ohio University, Dept. of Biol. Sciences-		2005
Best Graduate Research Presentation, Ohio University Research Fair	\$ 400	2005
Organization for Tropical Studies Tuition Award	\$ 3,000	2004
Sandpiper Technologies Research Equipment Grant	\$ 9,275	2004
American Ornithologists' Union Student Membership Award	-	2003
Knox County (Ohio) Applied Science Scholarship	\$ 600	1997
1 <sup>st</sup> Place, Knox County (Ohio) Science Fair	\$ 100	1991

***FUNDED PROPOSALS WRITTEN WITHOUT AUTHORSHIP***

(with PI David E. Andersen, USGS, Minnesota Cooperative Fish and Wildlife Research Unit)		
U.S. Fish and Wildlife Service Region 3 Migratory Bird Program	\$ 69,686	2012
U.S. Fish and Wildlife Service	\$ 50,000	2011
U.S. Geological Survey, Cooperative Research Unit Funds	\$ 8,000	2010
U.S. Fish and Wildlife Service	\$ 92,000	2010
U.S. Fish and Wildlife Service Region 3 Flex Funding Program	\$ 41,268	2010
U.S. Fish and Wildlife Service Region 3 Migratory Bird Program	\$ 38,909	2010
U.S. Geological Survey, Cooperative Research Unit Funds	\$ 2,914	2009

U.S. Fish and Wildlife service and U.S. Geological Survey,  
 Science Support Partnership

\$195,000      2009

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**TEACHING**

**General Ecology: 3 cr.** *Fall 2020*  
 EEES 3050:001 (Enrollment: 42)  
 University of Toledo

**General Ecology-Honors: 3 cr.** *Fall 2020*  
 EEES 3050:091 (Enrollment: 4)  
 University of Toledo

**Wildlife Conservation and Management: 3 cr.** *Fall 2020*  
 EEES 49/69/8980: (Enrollment: 9)  
 University of Toledo

**Avian Ecology Lab: 2 cr.** *Spring 2020*  
 EEES 49/69/8980:004 (Enrollment: 5)  
 University of Toledo

**Directed Research: variable cr.** *Spring 2020*  
 EEES 4910:016 (Enrollment: 4)  
 University of Toledo

**Faculty Mentor: Biodesign Challenge** *Spring 2020*  
 (with Brian Carpenter and Eric Zeigler)  
 EEES 4980:005 (Enrollment: 17)  
 University of Toledo

**Mentor for Student Internship** *Spring 2020*  
 EEES 4940:001 (Mentored: 1)  
 University of Toledo

**General Ecology: 3 cr.** *Fall 2019*  
 EEES 3050:001 (Enrollment: 57)  
 University of Toledo

**General Ecology-Honors: 3 cr.** *Fall 2019*  
 EEES 3050:091 (Enrollment: 6)  
 University of Toledo

**Wildlife Conservation and Management: 1cr.** *Fall 2019*  
 (reformatted as a graduate level seminar course)  
 EEES 69/8980:016: (Enrollment: 6)  
 University of Toledo

**Co-instructor: Graduate Research Colloquium: 2cr.**  
(with Jeanine Refsnider and Song Qian)  
EEES 68/8980:003 (Enrollment: 6)  
University of Toledo

*Fall 2019*

**Directed Research: variable cr.**  
EEES 4910:016 (Enrollment: 6)  
University of Toledo

*Fall 2019*

**Mentor for Student Internship**  
EEES 4940:001 (Mentored: 1)  
University of Toledo

*Fall 2019*

**Advised REU student, Ashley Nunez**  
NSF REU program (Mentored: 1)  
University of Toledo

*Summer 2019*

**Introduction to Environmental Studies: 3 cr.**  
EEES 2010:002 (Enrollment: 27)  
University of Toledo

*Spring 2019*

**Co-Instructor: Landscape Ecology: 3 cr.**  
(with Dr. Jonathan Bossenbroek)  
EEES 47/5760 (Enrollment: 22)  
University of Toledo

*Spring 2019*

**Co-Instructor: Wildlife Identification: 1 cr.**  
(with PhD student Andrea Lindsay)  
EEES 4980:016 (Enrollment: 13)  
University of Toledo

*Spring 2019*

**Co-Instructor: Ecology Field Trip: Trinidad: 3 cr.**  
(with Dr. Jonathan Bossenbroek)  
EEES 47/5790:003 (Enrollment: 11)  
University of Toledo

*Spring 2019*

**Faculty Mentor: Biodesign Challenge**  
(with Brian Carpenter and Eric Zeigler)  
EEES 4980:005 (Enrollment: 17)  
University of Toledo

*Spring 2019*

**Wildlife Conservation and Management: 3 cr.**  
EEES 49/69/8980: (Enrollment: 11)  
University of Toledo

*Fall 2018*

**Directed Research**  
EEES 4910:016 (Enrollment: 1)  
University of Toledo

*Fall 2018*

**Introduction to Environmental Studies**  
EEES 2010:003 (Enrolment: 37)  
University of Toledo

*Spring 2018*

**Avian Ecology Lab: 1 cr.**  
EEES 49/69/8980:004 (Enrollment: 17)  
University of Toledo

*Spring 2018*

**Co-Instructor: Drones in Environmental Sciences**  
(with Dr. Richard Becker)  
EEES 49/69/8980:001 (Enrollment: 18)  
University of Toledo

*Spring 2018*

**Faculty Mentor: Biodesign Challenge**  
(with Brian Carpenter and Eric Zeigler)  
EEES 4980:005 (Enrollment: 19)  
University of Toledo

*Spring 2018*

**Wildlife Conservation and Management: 3 cr.**  
EEES 49/69/8980:016 (Enrollment: 21)  
University of Toledo

*Fall 2017*

**Co-Instructor: Landscape Ecology: 3 cr.**  
(with Dr. Jonathan Bossenbroek)  
EEES 47/5760:001 (Enrollment: 14)  
University of Toledo

*Spring 2017*

**Teaching prior to UT**  
**Principles of Wildlife Management**  
University of Minnesota

*Spring 2009*

**Graduate Teaching Assistant: Principles of Wildlife Management**  
Course Instructor - R. J. Gutiérrez Ph.D.  
University of Minnesota

*Spring 2008*

**Graduate Teaching Assistant: Ornithology** *Three (3) Fall Quarters 2002 - 2004*  
Course Instructor - Donald B. Miles Ph.D.  
Ohio University, Athens, Ohio

**Volunteer Teaching Assistant: Comparative Vertebrate Anatomy** *January - March 2003*  
Course Instructors - Robert Carr Ph.D., Sue Simon-Westendorph Ph.D.  
Ohio University, Athens, Ohio

**More than 10 Guest Lecturers** in courses at Ohio University, University of Minnesota, and  
University of California, Berkeley.

*Prior to 2016*

## ADDITIONAL RESEARCH EXPERIENCE

### **Graduate Research Assistant** *February - May 2006, September 2006 - November 2010*

University of Minnesota, St. Paul, Minnesota

Supervisor - David E. Andersen Ph.D.

USGS Minnesota Cooperative Fish and Wildlife Research Unit

### **Senior Research Technician** *May - August 2006*

University of Minnesota, St. Paul, Minnesota

Supervisor - David E. Andersen Ph.D.

USGS Minnesota Cooperative Fish and Wildlife Research Unit

### **Laboratory Technician** *July 2005 - February 2006*

University of Minnesota, St. Paul, Minnesota

Supervisor - Sharon Jansa Ph.D.

### **Graduate Research Assistant** *January 2003 - July 2005*

Ohio University, Athens, Ohio

Supervisor - Donald B. Miles Ph.D.

### **Field and Laboratory Intern** *January - May 2002*

USGS - Biological Research Division, PIERC

Supervisor - Carter Atkinson Ph.D.

USGS Biocomplexity Project, Hawaii Volcanoes National Park, Hawaii

### **Undergraduate Research Assistant** *June - September 2000*

Ohio University, Athens, Ohio

Supervisor - Stephen Reilly Ph.D.

## PROFESSIONAL CONFERENCE PRESENTATIONS

**Symbology throughout this CV:** † = graduate student in my lab, †† = postdoc in my lab,  
+ = graduate student in another lab in my department, \* = undergraduate student I mentored

Lindsay, A.M.<sup>†</sup>, L.W. DeGroot, M.C. Shieldcastle, and **H.M. Streby**. Linking patterns of change in migratory songbirds and two long-term bird banding stations. North American Ornithological Conference, Virtual Meeting, August 2020.

Bulluck, L., V. Galati, G. Kramer<sup>†</sup>, and **H. Streby**. Variation in crown feather reflectance in two species of hybridizing warblers. North American Ornithological Conference, Virtual Meeting, August 2020.

Kramer, G.R.<sup>†</sup>, D.E. Andersen, D.A. Buehler, P.B. Wood, S.M. Peterson, **H.M. Streby**, J.A. Lehman, K.R. Aldinger, L.P. Bulluck, S. Harding, R. Vallender, J.P. Loegering, C. Smalling. Variation in space use and exposure to potential risk factors during migration are not associated with *Vermivora* warbler population trends. North American Ornithological Conference, Virtual Meeting, August 2020.

Fischer, S.E.<sup>†</sup>, M. Baumann, E. Fahy, G.R. Kramer<sup>†</sup>, K. Granillo, and **H.M. Streby**. Tracking Gray Vireo migration using light-level geolocators. Joint Meeting of the American Fisheries Society and The Wildlife Society, Reno, Nevada, October 2019.

- Galati, V., G. Kramer<sup>†</sup>, **H. Streby**, and L. Bulluck. Variation in crown feather reflectance in two species of hybridizing warblers. Annual meeting of the Wilson Ornithological Society and the Association of Field Ornithologists, Cape May, New Jersey, October 2019.
- Nunez, A.C.\* , **H. Streby**, and J. Refsnider. Microcystin algal blooms may cause chronic stress in wetland associated songbirds. Annual meeting of the Wilson Ornithological Society and the Association of Field Ornithologists, Cape May, New Jersey, October 2019.
- Toews, D.P., S.A. Taylor, **H.M. Streby**, G.R. Kramer<sup>†</sup>, C. Brennan, A. Jones, I.J. Lovette. Ancient and contemporary hybridization amongst wood warblers. Meeting of the American Ornithological Society, Anchorage, Alaska, July 2019.
- Bauernfeind, S.M., D.L. Wiley, J.L. Williamson, S.E. Fischer<sup>†</sup>, **H.M. Streby**, C.C. Witt, and L.N. Barrow. Haemosporidians in vireos: insights on coevolution from a comparison of elevational-replacement species. Meeting of the American Ornithological Society, Anchorage, Alaska, July 2019.
- Fischer, S.E.<sup>†</sup>, K. Granillo, and **H.M. Streby**. Severe drought negatively impacts juvenile survival, but not nest survival, in an arid land songbird. Meeting of the Ecological Society of America, Louisville, Kentucky, July 2019.
- Lindsay, A.M.<sup>†</sup>, L.W. DeGroot, M.C. Shieldcastle, and **H.M. Streby**. Refueling performance in migratory songbirds at two long-term bird banding sites. Poster presentation at the 96<sup>th</sup> Meeting of the Eastern Bird Banding Association. Rochester, NY. April 2019.
- Refsnider, J.M. and **H.M. Streby**. Is what's good for the bird good for the turtle? Landscape scale productivity modeling of declining red-headed woodpeckers, eastern box turtles, and spotted turtles in the oak openings of Ohio and Michigan. Midwest Fish and Wildlife Conference, Cleveland, Ohio, January 2019.
- Crary, A.L.<sup>†</sup>, M.C. Shieldcastle (presenter), and **H.M. Streby**. Weather affects refueling performance and arrival condition in migratory songbirds in northwest Ohio. Poster presentation at the Inland Bird Banding Association annual meeting. St. Louis, Missouri. October 2018.
- Streby, H.M.**, G.R. Kramer<sup>†</sup>, S.M. Peterson, K.O. Daly, and D.E. Andersen. Of woodcock and warblers: two species trying to thrive in the same landscape. Meeting of The Wildlife Society, Cleveland, Ohio, October 2018.
- Fischer, S.E.<sup>†</sup>, K. Granillo, and **H.M. Streby**. Tracking under-studied songbirds in the desert: the post-fledging period of Gray Vireos at Sevilleta National Wildlife Refuge, NM. 25<sup>th</sup> annual conference of The Wildlife Society. Cleveland, Ohio. October 2018.
- Kramer, G.R.<sup>†</sup>, D.E. Andersen, D.A. Buehler, P.B. Wood, S.M. Peterson, J.A. Lehman, K.R. Aldinger, L.P. Bulluck, S. Harding, J.A. Jones, J.P. Loegering, C. Smalling, R. Vallender, and **H.M. Streby**. 2018. Population trends in *Vermivora* warblers are linked to strong migratory connectivity. 25<sup>th</sup> annual conference of The Wildlife Society. Cleveland, Ohio. October 2018.
- Lindsay, A.L.<sup>†</sup>, L.W. DeGroot, M.C. Shieldcastle, and **H.M. Streby**. Refueling performance and arrival condition in migratory songbirds change with weather. Meeting of The Wildlife Society, Cleveland, Ohio, October 2018.
- Pagel, R.K.<sup>†</sup>, E.H. West<sup>††</sup>, and **H.M. Streby**. Multi-season movements of Red-headed Woodpeckers in managed oak savannas of the Midwest. Meeting of The Wildlife Society, Cleveland, Ohio, October 2018.
- Toews, D.P.L., S.A. Taylor, G.R. Kramer<sup>†</sup>, **H.M. Streby**, and I.J. Lovette. Population genomics of *Vermivora* warblers. International Ornithological Congress, Vancouver, British Columbia, August, 2018.
- Refsnider, J.M., S. Carter\*, I. Clifton<sup>+</sup>, G.A. Kramer<sup>†</sup>, S.S. Qian, A. Siefker\*, **H.M. Streby**, T. Vazquez<sup>+</sup>. Does environmental heterogeneity predict degree of specialization? Testing the “jack-

- of-all-trades, master of none” hypothesis in a specialist lizard, *Phrynosoma hernandesi*. Joint Meeting of Ichthyologists and Herpetologists, Rochester, New York, July 2018.
- Crary, A.L.<sup>†</sup>, L.W. DeGroot, and **H.M. Streby**. Temporal changes in migration phenology at a long-term bird banding station. Annual Meeting of the Eastern Bird Banding Association, Acadia National Park, Maine, June 2018.
- Crary, A.L.<sup>†</sup>, M.C. Shieldcastle, and **H.M. Streby**. Temporal shifts in migratory songbirds in northwest Ohio. Annual Meeting of the Eastern Bird Banding Association, Acadia National Park, Maine, June 2018.
- Streby, H.M.**, G.R. Kramer<sup>†</sup>, K.O. Daly, S.M. Peterson, and D.E. Andersen. What’s good for the woodcock is good for the warbler? productivity of two young-forest flagship species in a shared landscape. Meeting of the American Ornithological Society, Tucson, Arizona, April 2018.
- Fischer, S.E.<sup>†</sup>, K. Granillo, R.C. Stevens, C.E. Nemes, and **H.M. Streby**. Tracking understudied songbirds in the desert: the post-fledging period of Gray Vireos. Meeting of the American Ornithological Society, Tucson, Arizona, April 2018.
- Pagel, R.K.<sup>†</sup>, E. West<sup>††</sup>, and **H.M. Streby**. The fledgling doesn’t roam far from the nest: Redheaded Woodpecker fledgling movement patterns during parental dependence. Meeting of the American Ornithological Society, Tucson, Arizona, April 2018.
- Crary, A.L.<sup>†</sup>, L.W. DeGroot, M.C. Shieldcastle, and **H.M. Streby**. Fifty years and still eating the same: a tale of refueling performance from two long-term banding stations. Meeting of the American Ornithological Society, Tucson, Arizona, April 2018.
- Kramer, G.R.<sup>†</sup>, D.E. Andersen, D.A. Buehler, P.B. Wood, S.M. Peterson, J.A. Lehman, and **H.M. Streby**. Range-wide migration patterns in *Vermivora* warblers. Meeting of the American Ornithological Society, Tucson, Arizona, April 2018.
- Fischer, S.E.<sup>†</sup>, K. Granillo, and **H.M. Streby**. Inter-annual variability in the post-fledging period of Gray Vireos in New Mexico. Western Field Ornithologists’ Meeting, Ventura, California, September 2018.
- Fischer, S.E.<sup>†</sup>, K. Granillo, and **H.M. Streby**. Tracking understudied songbirds in the desert: the post-fledging period in gray vireos. 56<sup>th</sup> Meeting of the New Mexico Ornithological Society, Albuquerque, New Mexico, March 2018.
- Crary, A.L.<sup>†</sup>, K. Kaufman, M. Shieldcastle, and **H.M. Streby**. Changes in timing of migration in northwest Ohio since 1992. Forum on Local Natural History and Research. Toledo, Ohio, February 2018.
- Pagel, R.K.<sup>†</sup>, **H.M. Streby**, E. West<sup>††</sup>. The fledgling doesn’t roam far from the nest: Red-headed Woodpecker fledgling movement patterns during the parental dependent phase. Forum on Local Natural History and Research. Toledo, Ohio, February 2018.
- Kramer, G.<sup>†</sup>, D. Andersen, D. Buehler, P. Wood, S. Peterson, K. Aldinger, L. Bulluck, B. Gray, S. Harding, J. Jones, D. King, J. Loegering, D. Miles, C. Smalling, R. Vallendar, and **H. Streby**. Range-wide patterns of migratory connectivity and non-breeding distribution of *Vermivora* warblers. 78<sup>th</sup> Midwest Fish and Wildlife Conference, Milwaukee, Wisconsin, January 2018.
- Fischer, S.<sup>†</sup>, **H. Streby**, K. Granillo. And C. Nemes. “Tracking desert songbirds: the post-fledging period in Gray Vireos (*Vireo vicinior*). 78<sup>th</sup> Midwest Fish and Wildlife Conference, Milwaukee, Wisconsin, January 2018.
- Kramer, Gunnar R.<sup>†</sup>, Kyle O. Daly, **Henry M. Streby**, and David E. Andersen. “A spatially explicit method for estimating the effects of landscape composition and configuration on full-season productivity of American Woodcock in Minnesota.” 11<sup>th</sup> American Woodcock Symposium, Roscommon, Michigan, October 2017.
- Kramer, Gunnar R.<sup>†</sup>, David E. Andersen, David A. Buehler, Petra B. Wood, Sean M. Peterson, Justin A. Lehman, Kyle Aldinger, Lesley Bulluck, Brandon Gray, Sergio Harding, John Jones,



David King, Jeffrey Larkin, John Loegering, Darin McNeil, Donald Miles, Curtis Smalling, Rachel Vallender, **Henry M. Streby**. “Range-wide patterns of migratory connectivity and nonbreeding distribution of Golden-winged Warblers and Blue-winged Warblers”. Ohio Avian Research Conference, Granville, Ohio, October 2017.

-Winner- The Dr. David Osborne Award.

Kramer, Gunnar R.<sup>†</sup>, David E. Andersen, David A. Buehler, Petra B. Wood, Sean M. Peterson, Justin A. Lehman, Kyle Aldinger, Lesley Bulluck, Brandon Gray, Sergio Harding, John Jones, David King, Jeffrey Larkin, John Loegering, Darin McNeil, Donald Miles, Curtis Smalling, Rachel Vallender, **Henry M. Streby**. “Range-wide migration patterns and distribution of *Vermivora* warblers during the nonbreeding period”. Meeting of the American Ornithological Society 2017. East Lansing, Michigan, August 2017.

Pagel, R. Kyle<sup>†</sup>, Gunnar R. Kramer<sup>†</sup>, Cassandra L. Ziegler, Katelyn Maley, and **Henry M. Streby**. “Say what? Inter-annual, inter-specific song switching in Golden- and Blue-winged Warblers”. Meeting of the American Ornithological Society 2017. East Lansing, Michigan, August 2017.

Raybuck, D., Darin J. McNeil, Scott H. Stoleson, Than J. Boves, Cameron J. Fiss, Jeffrey L. Larkin, Gunnar R. Kramer<sup>†</sup>, **Henry M. Streby**, Justin A. Lehman, David A. Buehler. Geolocators on 9-10g birds: are there breeding or annual fitness effects on Cerulean and Golden-winged Warblers? Meeting of the American Ornithological Society 2017. East Lansing, Michigan, August 2017.

Buehler, David A., Gunnar R. Kramer<sup>†</sup>, Sean M. Peterson, Justin A. Lehman, Darin J. McNeil, Jeffery L. Larkin, David E. Andersen, Petra Wood, and **Henry M. Streby**. New insights into the migration ecology and full life cycle conservation of Golden-winged Warblers. Annual meeting of the Tennessee Ornithological Society, Knoxville, Tennessee, May 2017.

Kramer, Gunnar R. <sup>†</sup>, **Henry M. Streby (presenter)**, Sean M. Peterson, Justin A. Lehman, David A. Buehler, Petra B. Wood, Darin J. McNeil, Jeffery L. Larkin, and David E. Andersen.

“Nonbreeding isolation and population specific migration routes among three populations of golden-winged warblers.” Society for Integrative and Comparative Biology annual meeting, New Orleans, Louisiana, January 2017.

Refsnider, Jeanine M., Sarah E. Carter\*, Ian T. Clifton<sup>+</sup>, Adam D. Siefker\*, **Henry M. Streby**, and Tiara K. Vazquez<sup>+</sup>. “Plasticity in behavioral thermoregulation by lizards on an elevational gradient: A reciprocal transplant experiment.” Society for Integrative and Comparative Biology annual meeting, New Orleans, Louisiana, January 2017.

**Streby, Henry M.**, Gunnar R. Kramer, Sean M. Peterson, Justin A. Lehman, David A. Buehler, Petra B. Wood, Darin J. McNeil, Jeffery L. Larkin, and David E. Andersen. “Tracking golden-winged warbler migration with geolocators reveals population specific timing, routes, and wintering areas.” Inland Bird Banding Association Annual Meeting, Connersville, Indiana, November 2016.

**Streby, Henry M.** “Oversimplification of habitat associations leads to unnecessary conflict and counterproductive conservation and management actions.” **Invited Symposium Presentation.** North American Ornithological Conference, Washington DC, August 2016.

Kramer, Gunnar R. <sup>†</sup>, **Henry M. Streby**, Sean M. Peterson, Justin A. Lehman, David A. Buehler, Petra B. Wood, Darin J. McNeil, Jeffery L. Larkin, and David E. Andersen. “Nonbreeding isolation and population specific migration routes among three populations of golden-winged warblers.” North American Ornithological Conference, Washington DC, August 2016.

-Winner- Best student presentation award.

Kramer, Gunnar R., **Henry M. Streby**, Sean M. Peterson, Justin A. Lehman, David A. Buehler, Petra B. Wood, and David E. Andersen. 2015. “There and back again: migratory behaviors of golden-winged warblers discovered using geolocators.” Joint Annual Meeting: Minnesota & Wisconsin State Chapters of The Wildlife Society, Duluth, Minnesota, February 2016.

- Streby, Henry M.**, Jeanine M. Refsnider, Sean M. Peterson, and David E. Andersen. “Songbird nest-site choice is under selection pressures from the nesting and fledgling stages.” Nest Construction and Function Conference, Lincoln, England, September 2015.
- Streby, Henry M.**, Gunnar R. Kramer, Sean M. Peterson, Justin A. Lehman, David A. Buehler, and David E. Andersen. “Evacuation migration: tornadic storm avoidance behavior in breeding warblers.” **Invited Symposium Presentation**, Cooper Ornithological Society - American Ornithologists’ Union joint meeting, Norman, Oklahoma, July 2015.
- Kramer, Gunnar R., **Henry M. Streby**, Sean M. Peterson, Justin A. Lehman, D. J. McNeil, Jeffrey L. Larkin, David A. Buehler, and David E. Andersen. “Migration and movement ecology of golden-winged warblers derived from light-level geolocators.” Cooper Ornithological Society - American Ornithologists’ Union joint meeting, Norman, Oklahoma, July 2015.
- Andersen, David E., **Henry M. Streby**, David A. Buehler, Petra B. Wood, Sean M. Peterson, Gunnar R. Kramer, and Justin A. Lehman. 2015. “Golden-winged warbler migration connectivity and ecology derived from geolocators.” Iowa Chapter of The Wildlife Society Annual Meeting, Ames, Iowa. March 2015.
- Streby, Henry M.** “Measuring productivity in songbirds: tradeoffs between nest success and fledgling survival mean we need to study both stages.” **Invited Plenary for COS Young Professional Award** – Cooper Ornithological Society - American Ornithologists’ Union joint meeting, Chicago, Illinois, August 2013.
- Streby, Henry M.**, Sean M. Peterson, and David E. Andersen. “Golden-winged warbler post-fledging habitat use and survival in the western Great Lakes region.” Golden-winged Warbler Symposium, Cooper Ornithological Society - American Ornithologists’ Union joint meeting, Chicago, Illinois, August 2013.
- Peterson, Sean M., **Henry M. Streby**, and David E. Andersen. “Influence of landscape composition on golden-winged warbler full-season productivity.” Golden-winged Warbler Symposium, Cooper Ornithological Society - American Ornithologists’ Union joint meeting, Chicago, Illinois, August 2013.
- Peterson, Sean M., **Henry M. Streby**, and David E. Andersen. “Sex-based differences in strategies of post-fledging parental care in golden-winged warblers.” Golden-winged Warbler Symposium, Cooper Ornithological Society - American Ornithologists’ Union joint meeting, Chicago, Illinois, August 2013.
- Buehler, David A., David, E. Andersen, and **Henry M. Streby**. “Welcome, explanation of symposium, and introduction to golden-winged warblers.” Golden-winged Warbler Symposium, Cooper Ornithological Society - American Ornithologists’ Union joint meeting, Chicago, Illinois, August 2013.
- Rohrbaugh, Ron, **Henry M. Streby**, David E. Andersen, Jeff Larkin, David A. Buehler. “Symposium summary and future directions in golden-winged warbler research and conservation.” Golden-winged Warbler Symposium, Cooper Ornithological Society - American Ornithologists’ Union joint meeting, Chicago, Illinois, August 2013.
- Brinkerhoff, R. Jory, Erin N. Lane (presenter), Inaayat Wazir, Maren Gimpel, and **Henry M. Streby**. “Life history characteristics of birds influence patterns of tick parasitism.” Wilson Ornithological Society annual meeting, Williamsburg, Virginia, March 2013.
- Peterson, Sean M., **Henry M. Streby**, and David E. Andersen. “High tech or field techs: an analysis of cost and bias in golden-winged warbler nest searching. Midwest Fish and Wildlife Conference. December 2012.
- Streby, Henry M.** and David E. Andersen. “Thinking outside the nest: the importance of full-season research for understanding productivity and habitat associations of migratory songbirds.” North American Ornithological Conference, Vancouver, British Columbia. August 2012.

- Streby, Henry M.**, Sean M. Peterson, and David E. Andersen. “Golden-winged Warbler demography and habitat use in Minnesota and Manitoba.” Midwest Fish and Wildlife annual conference. Des Moines, Iowa. December 2011.
- Peterson, Sean M., **Henry M. Streby**, and David E. Andersen. “High tech or field techs: an analysis of cost and bias in Golden-winged Warbler nest searching techniques.” Midwest Fish and Wildlife annual conference. Des Moines, Iowa. December 2011.
- Streby, Henry M.**, Sean M. Peterson, and David E. Andersen. “Golden-winged Warbler demography: productivity and survival in Minnesota and Manitoba.” The Wildlife Society annual meeting. Waikoloa, Hawaii. November 2011.
- Streby, Henry M.** and David E. Andersen. *Invited Symposium Presentation*. “What the post-fledging period tells us that the nesting season does not.” American Ornithologists Union annual meeting. Jacksonville, Florida. July 2011.
- Streby, Henry M.**, Michelle McDowell (presenter), Tom Will, and David E. Andersen. “Demographic response of Golden-winged Warbler to habitat and management across a climate change gradient in the core of the species’ range. Conserving the Future: Wildlife Refuges and the Next Generation Conference. Madison, Wisconsin. July 2011.
- Streby, Henry M.**, John P. Loegering, and David E. Andersen. “Golden-winged Warbler demography: productivity and survival in northwest Minnesota in 2010.” Midwest Fish and Wildlife annual conference. Minneapolis, Minnesota. December 2010.
- Streby, Henry M.** and David E. Andersen. “When is success not success? When it’s songbird nesting success.” Society for Integrative and Comparative Biology annual meeting. Seattle, Washington. January 2010.
- Streby, Henry M.** and David E. Andersen. “Nest success does not equal reproductive success: a case study with songbirds.” Midwest Fish and Wildlife annual conference. Springfield, Illinois. December 2009.
- Streby, Henry M.** and David E. Andersen. “Edge effects and forest songbird fledgling survival: are clearcuts really all that bad?” The Wildlife Society annual meeting. Miami, Florida. November 2008.
- Streby, Henry M.** and David E. Andersen. “Post-fledging habitat use by Ovenbirds on the Chippewa National Forest.” Midwest Fish and Wildlife annual conference. Madison, Wisconsin. December 2007.
- Streby, Henry M.** and David E. Andersen. “Post-fledging early-successional habitat use by forest nesting songbirds in north-central Minnesota.” Minnesota Chapter of the Wildlife Society annual meeting, Alexandria, Minnesota. February 2007.
- Miles, Donald B. (presenter), **Henry M. Streby**, and Dan Weber. “Avian community responses to prescribed burns and shelterwood harvests. Fire in Eastern Oak Forests conference. October 2006.
- Streby, Henry M.** and Donald B. Miles. “Effects of the Ohio Hills Fire and Fire Surrogates experimental forests on the distribution of avian blood born diseases.” Ohio Natural History Conference, Columbus, Ohio. February 2005.
- Streby, Henry M.** and Donald B. Miles. “Avian hematozoa of nesting Neotropical migrants: patterns related to forestry techniques.” Society for Integrative and Comparative Biology annual meeting, San Diego, California. January 2005.
- Streby, Henry M.** and Donald B. Miles. “Response of nesting neotropical migrants to thinning and burning in mixed oak forests.” Ecological Society of America annual meeting, Portland, Oregon, August 2004.

#### **INVITED PRESENTATIONS FOR PROFESSIONALS AND/OR PUBLIC**

- Nuñez, A.\* , J.M. Refsnider, and **H.M. Streby**. Effect of microcystin algal blooms on physiological stress levels in wetland associated songbirds. National Science Foundation Research Experience for Undergrads Poster Gala, Lake Erie Center, University of Toledo. August 2019.
- Lindsay, A.M.†, M.C. Shieldcastle, L.W. DeGroot, and **H.M. Streby**. Are apparent declines in breeding populations of migratory songbirds reflected in bird banding data? Poster presentation at the Metroparks Toledo Forum on Local Natural History and Research. Toledo, Ohio. February 2019.
- Koszycki, N.F.\* , A.M. Lindsay†, M.C. Shieldcastle, T. Crail, and **H.M. Streby**. Bird-Safe Toledo. Poster presentation at the Metroparks Toledo Forum on Local Natural History and Research. Toledo, Ohio. February 2019.
- Kramer, G. and **H. Streby**. “Migratory connectivity of Vermivora warblers: why it matters where you winter”. Science Seminar Series, Department of Biological Sciences, Arkansas State University, Jonesboro, Arkansas, February 2018.
- Kramer, G, David A, David B, P Wood, S Peterson, J. Lehman, K Aldinger, L. Bulluck, S Harding, J. Jones, J. Loegering, C. Smalling, R. Vallender, and **H. Streby**. “Migratory connectivity of Vermivora warblers: why it matters where you winter”. Adult Learning Series, Metroparks Toledo, Toledo, Ohio, March 2018.
- Streby, H.M.** Steps toward living a slightly more sustainable life. Lecture for the Earth Hour event held by the University of Toledo Society for Environmental Advocates, UT Lake Erie Center, Ohio, April 2018.
- Streby, Henry M.**, Gunnar R. Kramer, David A. Buehler, Petra B. Wood, Sean M. Peterson, Justin A. Lehman, Kyle Aldinger, Lesley Bulluck, Brandon Gray, Sergio Harding, John Jones, David King, Jeffrey Larkin, John Loegering, Darin McNeil, Donald Miles, Curtis Smalling, Rachel Vallender, and David E. Andersen. Migratory patterns of golden-winged warblers. Way Public Library Lecture Series, Perrysburg, Ohio, March 2017.
- Streby, Henry M.**, Gunnar R. Kramer, David A. Buehler, Petra B. Wood, Sean M. Peterson, Justin A. Lehman, Kyle Aldinger, Lesley Bulluck, Brandon Gray, Sergio Harding, John Jones, David King, Jeffrey Larkin, John Loegering, Darin McNeil, Donald Miles, Curtis Smalling, Rachel Vallender, and David E. Andersen. Using tiny technology to track migration in tiny songbirds. University of Toledo Lake Erie Center Public Lecture Series, February 2017.
- Streby, Henry M.**, Gunnar R. Kramer, Sean M. Peterson, Jeanine A. Lehman, Davis A. Buehler, Petra B. Wood, and David E. Andersen. 2015. Tracking long-distance migration in tiny songbirds using tiny technology. University of California, Davis, Animal Behavior Graduate Group Winter Seminar Series, Davis, California, February 2015.
- Streby, Henry M.** and Gunnar R. Kramer. “From Tennessee to Colombia and back again: tracking migration in golden-winged warblers (*Vermivora chrysoptera*).” Festival de las Aves, Medellin, Colombia, November 2014.
- Streby, Henry M.** “Tracking migration in tiny songbirds using tiny technology.” Fisheries, Wildlife, and Conservation Biology seminar series. University of California, Berkeley, September 2014.
- Streby, Henry M.** “Full-season habitat associations of forest songbirds: don’t forget the middle seral stages.” Minnesota Chapter of The Wildlife Society, Palisade, Minnesota, August 2014.
- Streby, Henry M.** “Redefining fitness in songbirds: a challenge to the nest success paradigm.” Organismal Biology and Ecology Seminar Series, University of Montana, Missoula, September 2013.
- Streby, Henry M.** “Full-season productivity in songbirds: why managing for nest success is not the best plan.” Friday seminar series, PRBO Palomarin Field Station, Point Reyes National Seashore, California, April 2013.

- Peterson, Sean M. (presenter), **Henry M. Streby**, Tom C. Will, Tom R. Cooper, and David E. Andersen. "Golden-winged warblers and the importance of diverse forest landscapes." Zumbro Valley Audubon Society. Rochester, Minnesota, January 2013.
- Streby, Henry M.**, Sean M. Peterson, and David E. Andersen. "Thinking outside the nest: the importance of the post-fledging period for understanding productivity and habitat associations in songbirds." Fisheries, Wildlife, and Conservation Biology seminar series. University of California, Berkeley, October 2012.
- Streby, Henry M.**, Sean M. Peterson, Tom Will, Tom Cooper, and David E. Andersen. "Golden-winged warblers and the importance of diverse forest landscapes." Minnesota River Valley Audubon Chapter. Minnesota Valley National Wildlife Refuge, Bloomington, Minnesota, April 2012.
- Streby, Henry M.**, Tom Will, Sean M. Peterson (presenter), John P. Loegering, Wayne Brininger, and David E. Andersen. "Golden-winged warbler: Minnesota demography and landscape ecology." 9<sup>th</sup> Annual Forestry, Wildlife, and Natural Resources Research Review. University of Minnesota Cloquet Forestry Center. Cloquet, Minnesota, January 2012.
- Peterson, Sean M. (presenter), **Henry M. Streby**, and David E. Andersen. "High tech or field techs: an analysis of cost and bias in golden-winged warbler nest searching techniques." 9<sup>th</sup> Annual Forestry, Wildlife, and Natural Resources Research Review. University of Minnesota Cloquet Forestry Center. Cloquet, Minnesota, January 2012.
- Streby, Henry M.**, Sean M. Peterson, and David E. Andersen. "Golden-winged warbler research at Tamarac and Rice Lake National Wildlife Refuges." Minnesota Ornithologists Union annual meeting. Minneapolis, Minnesota, December 2011.
- Will, Tom (presenter) and **Henry M. Streby**. "Golden-winged warblers and migratory songbird use of young forest habitat." Sustainable Forest Education Cooperative. Hackensack, Minnesota. June 2011.
- Streby, Henry M.**, Sean M. Peterson, and David E. Andersen. "Golden-winged warblers in the Upper Midwest: productivity, habitat associations, and management implications." Wisconsin Bird Conservation Initiative 2011 Statewide Meeting. Green Bay, Wisconsin. September 2011.
- Streby, Henry M.**, Sean M. Peterson, and David E. Andersen. "Golden-winged warbler demography: nest productivity and adult and fledgling survival." Northwest GWWA Working Group Meeting. Winnipeg, Manitoba (teleconference). April 2011.
- Brininger, Wayne (presenter), **Henry M. Streby**, and Kyle Daly. "Early successional forest bird research at Tamarac National Wildlife Refuge." Report to Minnesota Department of Natural Resources Forest Wildlife Management Group. Detroit Lakes, Minnesota. March 2011.
- Loegering, John, P. and **Henry M. Streby** (co-presenters). "Golden-winged warbler demography and habitat assessment at Tamarac National Wildlife Refuge in 2010." Golden-winged Warbler Conservation Workshop. Ithaca, New York. August 2010.
- Streby, Henry M.**, Sean M. Peterson and David E. Andersen. "Forest songbird research" Chippewa National Forest Summer Naturalist Series. Marcell, Minnesota. August 2009.
- Streby, Henry M.** and David E. Andersen. "Survival and habitat use of fledgling forest nesting songbirds in a managed forest landscape." U.S. Fish and Wildlife Service Regional Office. Minneapolis, Minnesota. November 2008.
- Streby, Henry M.** and David E. Andersen. "Survival and habitat use of fledgling forest nesting songbirds in a managed forest landscape." Minnesota Cooperative Fish and Wildlife Research Unit Annual Coordinating Committee Meeting. Saint Paul, Minnesota. October 2008.
- Streby, Henry M.** and Sean M. Peterson. "Minnesota Coop Unit forest bird project." Chippewa National Forest Naturalist Series. Marcell, Minnesota. August 2008.

**Streby, Henry M.** and David E. Andersen. "Edge effects and ovenbirds: the other half of the season." Fisheries, Wildlife, and Conservation Biology Lecture Series. University of Minnesota, St Paul, Minnesota. March 2008.

**Streby, Henry M.** and David E. Andersen. "Post-fledging habitat use by forest nesting songbirds on the Chippewa National Forest." Meeting of Ecologists and Managers of the Chippewa National Forest. Cass Lake, Minnesota. August 2007.

**Streby, Henry M.** and Donald B. Miles. "Anthropogenic disturbance alters the vertically stratified distribution of avian hematazoa in forest-nesting migrants." Ohio University Science and Creativity Student Research Fair, Athens, Ohio. April 2005. *Won Best Student Research Award.*

**Streby, Henry M.** and Phil Alman. "OTS 04-1 Tropical Biology: An Ecological Approach. Our OTS experience." Ecolunch Seminar Series, Ohio University, Athens, Ohio. May 2004.

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## **SERVICE AND OUTREACH**

### **Departmental:**

**Chair – Program Assessment Committee** for BS in Environmental Studies, 2018 – present.

**Undergraduate Affairs Committee** (Von Sigler, Chair), 2018 – present.

**Faculty Advisor** – Department Undergraduate Society (Society of Environmental Advocates), 2017 – present.

**Curriculum Committee** (Scott Heckathorn, Chair), August 2016 – 2018.

### **External:**

**Committee member:** Black Swamp Bird Observatory Research Committee, 2016 – present.

**Committee member:** American Ornithological Society Joint Publications Committee (I. Lovette, Chair), 2014 – 2019.

**Committee member:** American Ornithological Society Best Published Paper Selection Committee (M. Murphy, Chair), 2017 – present.

**Committee member:** Maumee Area of Concern Action Committee (J. Kuznier, Chair), 2017 – present.

**Committee member:** Maumee Area of Concern Action Committee, Fish Habitat Subcommittee (J. Miller, Chair), 2017 – present.

**Science Instructor** for White Earth Academy of Math and Science, Gaawaabaabiganikaag (White Earth Indian Reservation), 2013 – 2018.

### **Professional Journal Service**

Associate Editor for the Wildlife Society Bulletin, 2014 – present.

**Manuscripts Reviewed** for American Midland Naturalist, Auk: Ornithological Advances, Avian Conservation and Ecology, Behavioral Ecology and Sociobiology, Biological Conservation, Condor:

Ornithological Applications, Diversity and Distributions, Frontiers in Ecology and Evolution, Ibis, Journal of Animal Ecology, Journal of Avian Biology, Journal of Field Ornithology, Journal of Wildlife Management, Landscape Ecology, PLoS ONE, Proceedings of the Royal Society of London B, Scientific Reports, Studies in Avian Biology, Wildlife Society Bulletin, Wilson Journal of Ornithology

**Student Presentation Judge** for the 2014 joint meeting of the Cooper Ornithological Society, American Ornithologists' Union, and Canadian Society for Ornithologists, Estes Park, Colorado.

**Conference Symposium Organized and Chaired** for the 2013 joint meeting of the Cooper Ornithological Society and American Ornithologists' Union, Chicago, Illinois.

**Volunteer Bird Banding Assistant** for Ron Refsnider, Springbrook and Elm Creek Nature Centers: Demonstrate mist netting, bird identification, and banding for community members. Three Rivers Park District, Minnesota.

**Volunteer Bird Banding Demonstrations** for:  
North School Forestry Days for students grades K – 6  
Rice Lake National Wildlife Refuge Family Day (x3)  
Chippewa National Forest Naturalist Series

**Volunteer Mammalogy Teaching Assistant** for Bill Clark, Ph.D., Iowa State University: Assisted with small mammal trapping labs at Doolittle Prairie, Ames, IA.

**Science Education Program** for Pleasant Street Elementary School, Mount Vernon, Ohio.

**Departmental Scholarship Committee Member** for the Department of Fisheries Wildlife and Conservation Biology, University of Minnesota: Assisted in the selection of undergraduate students for departmental scholarships.

**Graduate Student Envoy to the Department Head** of the Department of Fisheries Wildlife and Conservation Biology, University of Minnesota: Organized graduate student Wildlife Club meetings.

**Volunteer Field Research Assistant** for Nicola Nelson, Victoria University, Wellington, New Zealand: Collected data on nesting Tuatara (*Sphenodon punctatus*), Stephen's Island, Cook Strait, New Zealand.

**Volunteer Bird Surveyor** for Hillary Miller, Victoria University, Wellington, New Zealand: Conducted bird surveys at Makara Hills, Karori, New Zealand.

**Volunteer Field Research Assistant** for Phil Alman Ph.D., Ohio University, Athens, Ohio: Collected data on nesting Diamondback Terrapin (*Molaclemys terrapin*), South Carolina.

**Volunteer Tutor**, West Elementary, Athens, Ohio: Tutored fifth-graders in science and social studies.

## POPULAR PRESS AND MEDIA COVERAGE

See Media page at <http://www.henrystreby.com> for more coverage of Streby Lab activities.

Kyle Pagel's Red-headed Woodpecker research was featured by 13ABC News, WTOL11 News, and The Toledo Blade.

Our Current Biology paper was covered by >200 media outlets worldwide, some of which are archived on the Altmetric page for the article.

Minnesota Conservation Volunteer Magazine (MN DNR) featured golden-winged warbler research in an article by Gerald Niemi.

The Wildlife Management Institute featured golden-winged warbler project in their Outdoor News Bulletin.

The Scientist featured nest-site selection paper from Proceedings B in their animal behavior research highlights.

The Economist featured nest-site selection paper from Proceedings B in their online science blog.

Living Bird Magazine (Cornell Lab of Ornithology) featured Golden-winged Warbler demography project in the Spring 2013 issue in a story called "A Golden Plan for a Turnaround" by Gustave Axelson.

Golden-winged Warbler demography project was featured by the U.S. Fish and Wildlife Service in a "Species Spotlight" article in July 2012.

Living Bird Magazine (Cornell Lab of Ornithology) featured post-fledging songbird research and interviewed me for an article in the Autumn 2011 issue.

The University of Minnesota home page, [www1.umn.edu](http://www1.umn.edu), featured Golden-winged Warbler research in the Driven to Discover campaign 3 – 23 August 2011.

Minnesota Public Radio featured Golden-winged Warbler research in a story called "Saving the Golden-winged Warbler" which aired 16 June 2011 on the Morning Edition program. Golden-winged Warbler research was featured in the Friends of Tamarac Newsletter, Summer issues, 2010 and 2011.

The Mother Nature Network featured Golden-winged Warbler research in an article titled "On the search for wings of gold" in August, 2010.

Streby, H.M., S.M. Peterson, and E.S. Michel. 2009. July Capture of a White-crowned Sparrow. The Loon 81:107-109.

Dissertation research was featured in an educational documentary film called "A Hard Life" about fledgling songbirds, produced in 2009 by TimeStopper Films, Minneapolis, Minnesota, USA.



Outreach bird-banding demonstration at the North School Elementary School was featured by the Chippewa National Forest in their Success Stories publication in May, 2009.

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**PROFESSIONAL SOCIETY MEMBERSHIPS**

American Ornithological Society  
Association of Field Ornithologists  
Ecological Society of America  
Society for Conservation Biology  
Society for Integrative and Comparative Biology  
The Wildlife Society  
Wilson Ornithological Society

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