

**Bret Aaron Collier**

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**Appointment: 33% Teaching (LSU A&M), 67% Research (LSU Agricultural Center)**

**Requested Action: Promotion to Rank of Professor (4 years 0 months at present rank)**

**SUMMARY OF ACCOMPLISHMENTS**

<b>Peer-reviewed journal articles published or in-press – Total</b>	<b>109</b>
<b>Peer-reviewed journal articles published or in-press – LSU</b>	<b>60</b>
<b>Book chapters published or in-press:</b>	<b>3</b>
<b>Books published:</b>	<b>1</b>
<b>Non Peer-reviewed/Extension/Popular Press:</b>	<b>16</b>
<b>Meetings or symposia organized:</b>	<b>7</b>
<b>Presentations, including invited, at professional meetings:</b>	<b>&gt;200</b>
<b>Total value of funded grants and contracts:</b>	<b>\$7,142,894</b>
<b>Total number of successful grants and contracts:</b>	<b>45</b>
<b>Total value of funded grants and contracts–LSU:</b>	<b>\$4,579,728</b>
<b>Total number of successful grants and contracts–LSU:</b>	<b>24</b>
<b>Number of M.S. students directed:</b>	<b>14</b>
<b>Number of Ph.D. students directed:</b>	<b>1</b>
<b>Number of M.S. committees served:</b>	<b>17</b>
<b>Number of Ph.D. committees served:</b>	<b>5</b>
<b>Number of Post-Doctoral Scientists advised:</b>	<b>3</b>
<b>Number of course sections taught:</b>	<b>28*</b>
<b>Number of seminar sections taught:</b>	<b>4*</b>

\*Denotes classes taught at LSU since 2014, please see *Teaching* section for details on teaching experience for 10 years at Texas A&M University

## Research Activity (67% Appointment)

### 1. Research Publication Citation Report

Summary of refereed journal articles. Articles that are indexed in Thomson Reuters Journal Citation Reports include associated impact factors and estimated citation frequency (from Thomson Reuters Web of Science–accessed 15-20 July 2021). Estimated citation frequency for non-indexed refereed journal articles are provided from Google Scholar (denoted with * accessed 15-20 July 2021).			
Journal	Impact Factor (2021)	Number of Papers	Total Citations
Proceedings of the Royal Society Series B– Biological Sciences	5.349	1	43
Diversity and Distributions	5.139	1	34
Journal of Biogeography	4.324	1	5
Journal of Animal Ecology	5.091	1	37
Biological Conservation	5.990	1	40
PLOS One	3.240	1	30
The Auk (now Ornithology)	2.6114	1	7
Ecosphere	3.171	1	28
Ecology and Evolution	2.912	4	16
Animal Conservation	3.641	1	20
Ecological Modelling	2.974	1	10
Journal of Zoology	2.322	1	3
Journal of Wildlife Management	2.469	23	350
Condor (now Ornithological Applications)	2.628	1	3
Mammalian Biology	1.863	1	18
Wildlife Society Bulletin	1.583	20	95
Wildlife Biology	1.474	3	34
Journal of Fish and Wildlife Management	0.784	2	15
Journal of Herpetology	1.577	1	8
Journal of Agricultural, Biological, and Environmental Statistics	1.650	1	22
South African Journal of Wildlife Research	0.63	1	3
Herpetological Conservation and Biology	0.595	1	3
Wilson Journal of Ornithology	0.656	5	17
Southeastern Naturalist	0.547	3	1
Fire Ecology	2.738	1	4
Ornithological Monographs	N/A	1	9
Forest Ecology and Management	3.558	2	15
Journal of the Southeastern Association of Fish and Wildlife Agencies	N/A	7	45*
15 <sup>th</sup> International Congress of Speleology	N/A	1	1*
National Wild Turkey Symposium	N/A	10	78*
Proceedings American Woodcock Symposium	N/A	1	0*
Journal of Field Ornithology	1.554	1	1

Thomson Reuters Journal Citation Reports *h*-index of 12 (at least 12 refereed scientific articles, each of which has been cited at least 12 times, with ~870 referred article citations). Google Scholar (as of 20 July 2021) which includes books and book chapters and non-indexed papers reports *h*-index of 25 with 2,080 unique citations.

### ***1.1 Peer-Refereed Scientific Articles (n = 109)***

Note: \* denotes my graduate student as author

- Wightman, P. H., D. W. Henrichs, B. A. Collier and M. J. Chamberlain. 2021. Comparison of methods for automated identification of wild turkey gobblers. *Wildlife Society Bulletin*, In Press.
- Byrne, M. E., B. S. Cohen, B. A. Collier and M. J. Chamberlain. 2021. Nest site fidelity and nesting success of female wild turkeys. *Special Issue: Wildlife Society Bulletin*, In Press.
- Bakner, N. W., B. S. Cohen, B. A. Collier and M. J. Chamberlain. 2021. Recursive movements of Eastern wild turkey broods in the southeastern United States. *Special Issue: Wildlife Society Bulletin*, In Press.
- Sullivan, D. J., P. H. Wightman, B. A. Collier, and M. J. Chamberlain. 2021. How prevalent is brood parasitism in wild turkeys (*Meleagris gallopavo*)? *Special Issue: Wildlife Society Bulletin*, In Press.
- Sullivan, D. J., A. R. Little, M. L. Poteet, B. A. Collier, and M. J. Chamberlain. 2021. Habitat selection of translocated eastern wild turkeys in east Texas. *Special Issue: Wildlife Society Bulletin*, In Press.
- Sullivan, D. J., B. S. Cohen, M. L. Poteet, B. A. Collier, and M. J. Chamberlain. 2021. Space use, movements, and survival of translocated Eastern wild turkeys in east Texas. *Special Issue: Wildlife Society Bulletin*, In Press.
- \*Ulrey, E., M. C. Chamberlain, and B. A. Collier. 2021. Spatial prediction of wild turkey nest predator distribution in west-central Louisiana. *Special Issue: Wildlife Society Bulletin*, In Press.
- \*White, J. H., \*D. J. Moscicki, D. Jobs, J. B. Hardin, M. J. Chamberlain, and B. A. Collier. 2021. Breeding season survival of female Rio Grande wild turkeys in south central Texas. *Special Issue: Wildlife Society Bulletin*, In Press.
- \*Moscicki, D. J., \*A. P. Gerrits, J. R. Cantrell, J. B. Hardin, M. J. Chamberlain, and B. A. Collier. 2021. Hurricane impacts to wild turkey survival, daily movements, and roost fidelity. *Special Issue: Wildlife Society Bulletin*, In Press.
- Cohen, B. S., B. Oleson, \*N. Fyffe, A. Smallwood, \*N. W. Bakner, S. Nelson, M. J. Chamberlain, and B. A. Collier. 2021. Movement, spatial ecology, and habitat selection of translocated Goulds wild turkeys. *Special Issue: Wildlife Society Bulletin*, In Press.
- Cohen, B. S., D. M. Marquardt, \*N. W. Bakner, B. A. Collier. 2020. Daily movements, space use, and habitat selection of GPS-tagged northern bobwhite in Texas. *Wildlife Society Bulletin* 44: 790–797.
- Crawford, J. C., W. F. Porter, M. J. Chamberlain, and B. A. Collier. 2020. Wild turkey nest success in pine-dominated forests of the southeastern United States. *Journal of Wildlife Management* 85: 498–507.

- Lohr, A. K., J. A. Martin, G. T. Wann, B. S. Cohen, B. A. Collier, and M. J. Chamberlain. 2020. Effects of individual recess behaviors on nest and female survival of Eastern wild turkeys. *Ecology and Evolution* 10: 11752–11765.
- Sullivan, D., K. McEntire, B. Cohen, B. A. Collier and M. J. Chamberlain. 2020. Spatial scale and shape of prescribed fires influence use by wild turkeys. *Journal of Wildlife Management* 84: 1570–1577.
- Ringelman, K. M., B. A. Collier, L. P. Laborde Jr., F. C. Rohwer, L. A. Reynolds, J. Messerli, M.R. McLandress, G. Oberstadt, and J. M. Eadie. 2020. Successes and challenges of University First Hunt Programs. *Journal of Wildlife Management* 84: 1032–1037.
- Chamberlain, M. J., B. S. Cohen, and B. A. Collier. 2020. Ecology of Eastern wild turkey broods in the southeastern United States. *Journal of Wildlife Management* 84: 1139–1152.
- \*Gerrits, A. P., \*P. H. Wightman, J. R. Cantrell, C. Ruth, M. J. Chamberlain, and B. A. Collier. 2020. Movement ecology of wild turkey hunters on public lands in South Carolina, USA. *Wildlife Society Bulletin* 44: 260–270.
- Wakefield, C. T., J. A. Martin, P. H. Wightman, B. T. Bond, D. K. Lowrey, B. S. Cohen, B. A. Collier and M. J. Chamberlain. 2020. Hunting activity effects on roost selection by male wild turkeys. *Journal of Wildlife Management* 84: 458–467.
- Wakefield, C. T., P. H. Wightman, J. A. Martin, B. T. Bond, D. K. Lowrey, B. S. Cohen, B. A. Collier and M. J. Chamberlain. 2020. Hunting and nesting phenology influence gobbling of wild turkeys. *Journal of Wildlife Management* 84: 448–457.
- \*Bakner, N. W., S. J. Madere, J. Bordelon, S. Durham, and B. A. Collier. 2020. Behavioral response of female white-tailed deer to small game hunting activities. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 7: 202–209.
- Sullivan, D. J., M. L. Poteet, B. A. Collier and M. J. Chamberlain. 2020. Nesting activity and nest site characteristics of a translocated eastern wild turkey population in Texas. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 7: 164–171.
- \*White, J. H., \*D. J. Moscicki, D. Forrester, J. B. Hardin, M. J. Chamberlain, and B. A. Collier. 2020. Evaluating reproductive parameters of Rio Grande wild turkeys to guide policy decisions in Texas. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 7: 172–182.
- \*Gerrits, A. P., \*P. H. Wightman, J. R. Cantrell, C. R. Ruth, M. J. Chamberlain and B. A. Collier. 2020. Eastern wild turkey response to feral hog hunting with dogs. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 7: 159–163.
- Cohen, B. S., T. J. Prebyl, B. A. Collier and M. J. Chamberlain. 2019. Spatiotemporal variability of fire characteristics affect animal response in pyric landscapes. *Fire Ecology* 15:41.
- \*Bakner, N. W., \*L. R. Schofield, C. Cedotal, M. J. Chamberlain and B. A. Collier. 2019. Incubation recess behaviors influence nest survival of wild turkeys. *Ecology and Evolution* 9: 14053–14065. doi: <https://doi.org/10.1002/ece3.5843>

- Collier, B. A., \*N. Fyffe, A. Smallwood, B. Oleson, \*N. W. Bakner, J. R. Heffelfinger, and M. J. Chamberlain. 2019. Reproductive ecology of Goulds wild turkeys in Arizona. *Wilson Journal of Ornithology* 131:667–679.
- \*Elizondo, E. E., J. P. Duguay, and B. A. Collier. 2019. Evaluation of habitat characteristics and the appropriate scale for evaluating diurnal habitat selection of wintering American woodcock in Louisiana. *Proceedings of the American Woodcock Symposium* 11:124–129.
- Collier, B.A. and M. L. Morrison. 2019. Comment on O'Donnell et al.'s "Density influences accuracy of model-based estimates for a forest songbird". *Journal of Field Ornithology* 90:91–92.
- Cohen, B. S., S. A. Askin, G. A. Balkcom, J. Benedict, J. A. Rader, J. D. James, B. A. Collier and M. J. Chamberlain. 2019. Survival and distribution of black-bellied whistling ducks (*Dendrocygna autumnalis*) in the southeastern United States. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 6:123–128.
- Wood, J. W., B. S. Cohen, L. M. Conner, B. A. Collier and M. J. Chamberlain. 2019. Nest and brood site selection of eastern wild turkeys. *Journal of Wildlife Management* 83:192–204.
- Sullivan, J. D., S. S. Ditchkoff, B. A. Collier, C.R. Ruth, and J. B. Raglin. 2019. Recognizing the danger zone: response of female white-tailed deer to discrete hunting events. *Wildlife Biology* 28: doi: 10.2981/wlb.00455
- \*Wightman, P. H., J. Kilgo, M. Vukovich, J. R. Cantrell, C. R. Ruth, B. Cohen, M. J. Chamberlain, and B. A. Collier. 2019. Gobbling chronology of eastern wild turkeys in South Carolina. *Journal of Wildlife Management* 83:325–333.
- Chamberlain, M. J., \*P. H. Wightman, B. S. Cohen, and B. A. Collier. 2018. Gobbling activity of eastern wild turkeys relative to male movements and female nesting phenology in South Carolina. *Wildlife Society Bulletin* 42:632–642.
- \*Fyffe, N., A. Smallwood, B. Oleson, M. J. Chamberlain, and B. A. Collier. 2018. Nesting perseverance by a female Gould's wild turkey under multiple direct predation threats. *Wilson Journal of Ornithology* 130:1041–1047.
- Sasmal, I., E. L. Kilburg, C. S. DePerno, M. C. Chitwood, M. A. Lashley, B. A. Collier, and C. E. Moorman. 2018. Eastern wild turkey roost-site selection in a fire-maintained longleaf pine ecosystem. *Southeastern Naturalist* 17:371–380.
- Cohen, B. S., T. J. Prebyl, B. A. Collier and M. J. Chamberlain. 2018. Home range estimator method and GPS sampling schedule affect habitat selection inferences for wild turkeys. *Wildlife Society Bulletin* 42:150–159.
- Baker, D. T., R. S. Durham, T. J. Victoriano, S. Armand, and B. A. Collier. 2018. Apparent survival of white-tailed deer in the Mississippi river delta of Louisiana. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 5:85–89.
- \*Wightman, P. H., J. R. Cantrell, C. R. Ruth, M. E. Byrne, M. J. Chamberlain, and B. A. Collier. 2018. Impact of supplemental feeding for Northern Bobwhite on movement ecology of Eastern wild turkeys in South Carolina. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 5:114–124.

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- Yeldell, N. A., B. S. Cohen, A. R. Little, B. A. Collier, and M. J. Chamberlain. 2017. Nest site selection and nest survival of eastern wild turkeys in pyric landscape. *Journal of Wildlife Management* 81:1073–1083.
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- Sullivan, J. D., S. S. Ditchkoff, B. A. Collier, C. R. Ruth, and J. B. Raglin. 2017. Breeding behavior of female white-tailed deer relative to conception: evidence for female mate choice. *Ecology and Evolution* 7:2395–2402.
- Marquardt, D. D., \*L. Scroggs, B. L. Pierce, K. L. Skow, K. D. Mote, and B. A. Collier. 2017. Accuracy assessment of GPS transmitters for use on Northern Bobwhite Quail. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 4:100–108.
- Collier, B. A., \*J. D. Guthrie, J. B. Hardin, and K. L. Skow. 2017. Movements and habitat selection of male Rio Grande wild turkeys during drought in south Texas. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 4:94–99.
- Collier, B. A., \*P. H. Wightman, M. J. Chamberlain, J. Cantrell, and C. R. Ruth. 2017. Hunting activity and male wild turkey movements in South Carolina. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 4:85–93.
- \*Conley, M. D., N. A. Yeldell, M. J. Chamberlain, and B. A. Collier. 2016. Do movement behaviors identify reproductive habitat sampling for wild turkeys? *Ecology and Evolution* 6:7103–7112.
- Sullivan, J. D., S. S. Ditchkoff, B. A. Collier, C. R. Ruth, and J. B. Raglin. 2015. Movement and the moon: white-tailed deer activity and solunar events. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 3:225–232.
- Gross, J. T., B. S. Cohen, B. A. Collier, and M. J. Chamberlain. 2015. Influences of hunting on movements of male wild turkeys during spring. *National Wild Turkey Symposium* 11:259–268.
- Cohen, B. S., T. J. Prebyl, N. J. Stafford III, B. A. Collier and M. J. Chamberlain. 2015. Space use, movements, site-fidelity, and habitat selection of translocated eastern wild turkeys. *National Wild Turkey Symposium* 11:165–173.
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- Oetgen, J. G., A. Engeling, A. Dube, M. J. Chamberlain, and B. A. Collier. 2015. Evaluating Rio Grande wild turkey movements post catastrophic wildfire using 2 selection analysis approaches. *National Wild Turkey Symposium* 11:127–141.
- \*Conley, M. D., J. G. Oetgen, J. Barrow, M. J. Chamberlain, K. L. Skow, and B. A. Collier. 2015. Habitat selection, incubation, and incubation recess ranges of nesting female Rio Grande wild turkeys in Texas. *National Wild Turkey Symposium* 11:117–126.
- \*Dreibelbis, J. Z., K. L. Skow, R. T. Snelgrove, J. B. Hardin, and B. A. Collier. 2015. Rio Grande wild turkey nesting habitat selection on the Edwards Plateau of Texas. *National Wild Turkey Symposium* 11:107–116.
- Gross, J. T., A. R. Little, B. A. Collier, and M. J. Chamberlain. 2015. Space use, daily movements, and roosting behavior of male wild turkeys during spring in Louisiana and Texas. *Journal of the Southeastern Association of Fish and Wildlife Agencies* 2:229–234.
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- Fenlio, D. B., M. L. Niemiller, R. M. Bonett, G. O. Graening, B. A. Collier and J. F. Stout. 2014. Life history, demography and the influence of cave-roosting bats on a population of Grotto Salamander (*Eurycea spelaea*) from the Ozark plateaus of Oklahoma (Caudata: Plethodontidae). *Herpetological Conservation and Biology* 9:394–405.
- \*Butcher, J. A., B. A. Collier, N. J. Silvy, J. A. Roberson, C. D. Mason and M. J. Peterson. 2014. Spatial and temporal patterns of range expansion of white-winged doves in the USA from 1979 to 2007. *Journal of Biogeography* 41:1947–1956.
- Mellish, J. M., A. Sumrall, T. A. Campbell, B. A. Collier, W. H. Neill, B. Higginbotham, and R. R. Lopez. 2014. Simulating potential population growth of Wild Pig, *Sus scrofa*, in Texas. *Southeastern Naturalist* 13:367–376.
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- Lackey, M. A., M. L. Morrison, Z. G. Loman, N. Fisher, S. L. Farrell, B. A. Collier, and R. N. Wilkins. 2011. Effects of road construction noise on the endangered Golden-cheeked warbler. *Wildlife Society Bulletin* 35:15–19.
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- \*Dreibelbis, J. Z., \*K. B. Melton, R. Aguirre, B. A. Collier, T. W. Schwertner, N. J. Silvy, and M. J. Peterson. 2008. Rio Grande wild turkey nest predation on the Edwards Plateau of Texas. *Wilson Journal of Ornithology* 120:906–910.
- Collier, B. A. 2008. Suggestions for basic graph use when reporting wildlife research results. *Journal of Wildlife Management* 72:1272–1278.
- Collier, B. A., and D. G. Kremetz. 2007. Opinions and preferences of Arkansas deer hunters regarding harvest management. *Proceedings of the Southeastern Association of Fish and Wildlife Agencies* 61:54–59.
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- Collier, B. A., \*K. B. Melton, \*J. Z. Dreibelbis, W. P. Kuvlesky, G. A. Proudfoot, R. Aguirre, D. G. Hewitt, T. W. Schwertner, S. J. DeMaso, N. J. Silvy, and M. J. Peterson. 2007. Variation in brood sex ratios of Texas Rio Grande wild turkeys. *Journal of Wildlife Management* 71:1793–1799.
- \*Hill, P. M., R. R. Lopez, and B. A. Collier. 2007. Survival, fecundity, and movements of free-roaming cats. *Journal of Wildlife Management* 71:915–919.
- Collier, B. A., S. S. Ditchkoff, J. B. Raglin, and J. M. Smith. 2007. Detection probability and sources of variation in white-tailed deer spotlight surveys. *Journal of Wildlife Management* 71:277–281.
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- Collier, B. A., and D. G. Krementz. 2007. Uncertainty in age-specific harvest estimates and consequences for white-tailed deer management. *Ecological Modelling* 201:194–204.
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- Collier, B. A., and D. G. Krementz. 2006. White-tailed deer management practices on private lands in Arkansas. *Wildlife Society Bulletin* 34:307–313.
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### ***1.2 Non-Peer Reviewed and Popular Articles***

\* denotes graduate student

- \*Argabright, C, C. Cedotal and B. A. Collier. 2021. Hurricane Laura and wild turkeys in the Kisatchie National Forest. *Timber Tales*, 171: 6–7.
- Collier, B. A., P. R. Krausman, M. Ben-David, A. S. Cox, A. C. S. Knipps, and J. M. Levenson. 2021. A new look for TWS publications. *Wildlife Society Bulletin*, In Press.
- Collier, B. A. 2021. Biospeaking: Wild Turkey Harvest. *Turkey Call Magazine*.
- Collier, B. A. 2021. Biospeaking: Summer Science—Thoughts on nest loss. *Turkey Call Magazine*.
- Collier, B. A. 2021. Time at the Bulletin. *Wildlife Society Bulletin* 45: 5.
- Collier, B. A. 2021. Biospeaking: Spring transitions—The science of spring turkey movements. *Turkey Call Magazine*
- Collier, B. A. 2020. Editorial. *Wildlife Society Bulletin* 44: 653.
- Collier, B. A. 2020. Biospeaking: Hurricane impacts on wild turkeys. *Turkey Call Magazine*.
- Collier, B. A. 2020. Biospeaking: Winter flocks and spring dispersal. *Turkey Call Magazine*
- Collier, B. A. 2020. Editorial: Transitions in 2020. *Wildlife Society Bulletin* 44: 449–450.

### ***1.3 Books and Book Chapters***

- Collier, B. A. and T. W. Schwertner. 2020. *Analysis of data in wildlife biology. Research and management techniques for wildlife and habitats.* 8<sup>th</sup> Edition.

Collier, B. A. and D. H. Johnson. 2015. Predicting impacts of habitat loss on terrestrial wildlife. Habitats in Peril, in M. L. Morrison and H. A. Mathewson, editors. The Wildlife Society-John Hopkins University Press.

Collier, B. A. and T. W. Schwertner. 2012. Analysis of data in wildlife biology. Research and management techniques for wildlife and habitats. 7<sup>th</sup> Edition.

Morrison, M. L., W. M. Block, M. D. Strickland, B. A. Collier, and M. J. Peterson. 2008. Wildlife Study Design. 2nd Edition.

#### ***1.4 Extension and Technical Reports***

Locke, S. L., J. C. Cathey, B. A. Collier, and J. B. Hardin. 2011. Guide to abundance estimation techniques for Rio Grande wild turkeys. Texas AgriLife Extension Service Publication, Pp. 12.

Cathey, J. C., J. Wimberley, L. Redmon, S. L. Locke, B. A. Collier, R. Perez, and J. B. Hardin. 2010. Managing brush near Rio Grande wild turkey roosts. Texas AgriLife Extension Service Publication, Pp. 12.

Dreibelbis, J. Z., S. L. Locke, J. C. Cathey, and B. A. Collier. 2009. Potential uses for trail cameras in wildlife management. Texas AgriLife Extension Service Publication, Pp.14.

Locke, S. L., J. C. Cathey, B. A. Collier, and J. Hardin. 2008. Rio Grande wild turkey life history and management calendar. Texas AgriLife Extension Service Publication L-5499 Pp.1.

Cathey, J. C., K. B. Melton, J. Z. Dreibelbis, R. Caveny, S. J. DeMaso, T. W. Schwertner and B. A. Collier. 2007. Rio Grande wild turkey in Texas: Their biology and management. Texas Cooperative Extension Publication B-6198 Pp. 1-16.

Cathey, J. C., S. L. Locke, D. Ransom, Jr., S. J. DeMaso, T. W. Schwertner, and B. A. Collier. 2007. Habitat appraisal guide for Rio Grande wild turkey in Texas. Texas Cooperative Extension Publication SP-317 Pp. 1-24.

#### ***1.5 Social Media Outreach/Engagement (since 2019 listed, >100 total)***

2021– Louisiana State University Agricultural Center. 2021 Wild Turkey Update  
(<https://www.facebook.com/LSUAgCenter/videos/2021-turkey-update/3763137273733742/>)

2021– Louisiana State University Agricultural Center. Brief Turkey History  
([https://www.facebook.com/LSUAgCenter/posts/4084971254851431?comment\\_id=4097447550270468](https://www.facebook.com/LSUAgCenter/posts/4084971254851431?comment_id=4097447550270468))

2021–National Wild Turkey Federation-Turkey Call Television: The Wild Turkey Docs.  
(<https://www.youtube.com/watch?v=Dyedo61jml8>)

2020–National Wild Turkey Federation Cocktails and Conservation: Predator Research  
(<https://tv.nwtf.org/2020/04/27/cocktails-conservation-predator-research/>)

2020–National Wild Turkey Federation Cocktails and Conservation: Prescribed Fire  
(<https://tv.nwtf.org/2020/05/07/cocktails-and-conservation-prescribed-fire/>)

- 2020–National Wild Turkey Federation Cocktails and Conservation: Turkey and Turkey Hunter Interactions  
(<https://tv.nwtf.org/2020/04/29/cocktails-conservation-turkey-and-hunter-interactions/>)
- 2020–National Wild Turkey Federation Cocktails and Conservation: Nesting and Brooding  
(<https://tv.nwtf.org/2020/05/14/cocktails-and-conservation-nesting-brooding/>)
- 2020–National Wild Turkey Federation Cocktails and Conservation: Wild Turkey Decline  
(<https://tv.nwtf.org/2020/05/22/cocktails-and-conservation-turkey-decline/>)
- 2020–National Wild Turkey Federation Cocktails and Conservation: Harvest and Season Impacts  
(<https://tv.nwtf.org/2020/06/02/cocktails-and-conservation-seasons-and-harvest-impacts/> )
- 2020– Louisiana State University Agricultural Center Live at 5: Turkey Talk with Michael Chamberlain, University of Georgia (29 May 2020) (<https://www.youtube.com/watch?v=8V06xOtZ16Y>)
- 2020– Louisiana State University Agricultural Center Live at 5: Turkey Talk with Jason Hart, Nomad Outdoors/NWTF Foundation Board (23 April 2020)  
(<https://www.youtube.com/watch?v=mjb7zStPgDE&feature=youtu.be>)
- 2020–Louisiana State University Agricultural Center: Live at 5: Louisiana Turkey Season Update (7 May 2020) (<https://www.youtube.com/watch?v=27D9UdgsDPs&feature=youtu.be>)
- 2020– StrutCast (<https://www.strutcast.com/>): Turkey science. Episode 23 (5 May 2020).
- 2020–Turkey Hunter Podcast (<http://www.theturkeyhunterpodcast.com/>): How COVID-19 may affect our wild turkeys. Episode 286P (23 April 2020).
- 2020– Louisiana State University Agricultural Center Live at 5: Wild Turkey Edition (30 April 2020)  
(<https://www.youtube.com/watch?v=8V06xOtZ16Y&feature=youtu.be>)

## ***2. Participation in Professional Meetings, Symposia, Workshops and Conferences***

### ***2.1 Workshops and Short Courses Organized or Taught***

Editor Workshop for Authors, The Wildlife Society (2020)-Organized and Directed

Introductory Program MARK Workshop, Louisiana State University (2015)-Organized

R for Wildlife Ecologists, Texas Chapter of the Wildlife Society (2013)-Organized and Taught

Advanced MARK Workshop, Colorado State University (2013)-Taught

R for Ecologists, Texas A&M University (2010/2011/2012)-Organized and Taught

Wildlife Demographics with Program MARK, Texas A&M University (2008-2011)-Organized and Taught

Wildlife Demographics with Program MARK, Texas Parks and Wildlife (2008-2011)-Organized and Taught

### ***2.2 Professional/Symposia Presentations (Since 2011, >200 Total)***

Note: \* denotes student presentation

\*Stewart, D. G., W. D. Gulsby, S. S. Ditchkoff and B. A. Collier. 2021. White-tailed deer selection for burned pine, hardwoods and food plots during hunting season. Southeast Deer Study Group.

\*Nelson, S. D., P. H. Wightman, M. J. Chamberlain, B. A. Collier, and B. S. Cohen. 2020. Habitat selection of eastern wild turkey broods. The Wildlife Society Annual Conference (Virtual).

Collier, B. A., A.P. Gerrits, P. H. Wightman, J. R. Cantrell, C. R. Ruth, and M. J. Chamberlain. 2020. Wild turkey hunter movement ecology and turkey-turkey hunter interactions on public lands in South Carolina. National Wild Turkey Federation Conservation Conference, Nashville, TN.

\*Nelson, S. D., P. H. Wightman, M. J. Chamberlain, B. A. Collier, and B. S. Cohen. 2020. Habitat selection of brooding female eastern wild turkeys: preliminary findings. Tennessee Chapter of The Wildlife Society 52nd Annual Meeting, Murfreesboro, TN.

Collier, B. A., A.P. Gerrits, P. H. Wightman, J. R. Cantrell, C. R. Ruth, and M. J. Chamberlain. 2020. Wild turkey hunter movement ecology and turkey-turkey hunter interactions on public lands in South Carolina. National Wild Turkey Federation Conservation Conference, Nashville, TN.

Chamberlain, M. J., B. Cohen, N. Bakner, and B. A. Collier. 2020. Ecology of Eastern wild turkey broods in the southeastern United States. National Wild Turkey Federation Conservation Conference, Nashville, TN.

\*Wightman, P., M., J. R. Cantrell, C. R. Ruth, B. A. Collier and M. J. Chamberlain. 2020 Relative influence of weather on daily gobbling activity. National Wild Turkey Federation Conservation Conference, Nashville, TN.

- Chamberlain, M. J., C. Wakefield, P. Wightman, B. Cohen, J. Martin and B. A. Collier. 2020. Hunting and nesting phenology drive gobbling of Eastern wild turkeys. National Wild Turkey Federation Conservation Conference, Nashville, TN.
- Collier, B. A., L. Schofield, N. Bakner, E. Ulrey, C. Wakefield, P. Wightman, A. Lohr, J. Wood, N. Yeldell, A. Gerrits, D. Moscicki, J. White and M. J. Chamberlain. 2020. On vegetation, behavior, and life history: A 21st Century evaluation of factors driving wild turkey nest success. National Wild Turkey Federation Conservation Conference, Nashville, TN.
- \*Bakner, N. W., S. J. Madere, J. Bordelon, S. Durham, and B. A. Collier. 2019. Behavioral response of female white-tailed deer to small game hunting activities. Southeastern Association of Fish and Wildlife Agencies, Hilton Head, SC.
- \*Sullivan, D. J., M. L. Poteet, B. A. Collier and M. J. Chamberlain. 2019. Nesting activity and nest site characteristics of a translocated eastern wild turkey population in Texas. Southeastern Association of Fish and Wildlife Agencies, Hilton Head, SC.
- \*White, J. H., D. J. Moscicki, D. Forrester, J. B. Hardin, M. J. Chamberlain, and B. A. Collier. 2019. Evaluating reproductive parameters of Rio Grande wild turkeys to guide policy decisions in Texas. Southeastern Association of Fish and Wildlife Agencies, Hilton Head, SC.
- \*Gerrits, A. P., P. H. Wightman, J. R. Cantrell, C. R. Ruth, M. J. Chamberlain and B. A. Collier. 2019. Eastern wild turkey response to feral hog hunting with dogs. Southeastern Association of Fish and Wildlife Agencies, Hilton Head, SC.
- \*Sullivan, D. J., K. D. McEntire, B. S. Cohen, B. A. Collier and M. J. Chamberlain. 2019. Spatial scale and shape of prescribed fires influences use by wild turkeys. Southeast Wild Turkey Working Group Meeting. Vicksburg, MS.
- Cohen, B. S., N. A. Yeldell, J. D. Wood, P. H. Wightman, T. J. Prebyl, B. A. Collier, and M. J. Chamberlain. 2018. Understanding how fire affects turkey behavior and reproductive success in southeastern pine-dominated forests. Southeast Wild Turkey Working Group Meeting. Bismarck, AR.
- Chamberlain, M. J., B. S. Cohen and B. A. Collier. 2018. Understanding whether timing and rate of harvest males could be contributing to regional declines in productivity. Southeast Wild Turkey Working Group Meeting. Bismarck, AR.
- Collier, B. A., B. S. Cohen, and M. J. Chamberlain. 2018. A field evaluation of availability of selected nest vegetation conditions by reproductively active female wild turkeys. Southeast Wild Turkey Working Group Meeting. Bismarck, AR.
- Marquardt, D. D., L. Scroggs, B. L. Pierce, K. L. Skow, K. D. Mote, and B. A. Collier. 2017. Accuracy assessment of GPS transmitters for use on Northern Bobwhite Quail. Southeastern Association of Fish and Wildlife Agencies, Louisville, KY.
- Collier, B. A., J. D. Guthrie, J. B. Hardin, and K. L. Skow. 2017. Movements and habitat selection of male Rio Grande wild turkeys during drought in south Texas. Southeastern Association of Fish and Wildlife Agencies, Louisville, KY.

- Collier, B. A., P. Wightman, M. J. Chamberlain, J. Cantrell, and C. R. Ruth. 2017. Hunting activity and male wild turkey movements in South Carolina. Southeastern Association of Fish and Wildlife Agencies, Louisville, KY.
- \*Sullivan, J. D., S. S. Ditchkoff, B. A. Collier, C. R. Ruth, and J. B. Raglin. 2015. Movement and the moon: white-tailed deer activity and solunar events. Southeastern Association of Fish and Wildlife Agencies, Louisville, KY.
- \*Gross, J. T., B. S. Cohen, B. A. Collier and M. J. Chamberlain. 2015. Influences of hunting on movements of male wild turkeys during spring. Annual Meeting of the Wildlife Society. Winnipeg, MB.
- \*Conley, M. D. and B. A. Collier. 2015. Preincubation movement of female Rio Grande wild turkeys in Texas. Texas Chapter of the Wildlife Society, Corpus Christi, TX..
- \*Conley, M. D. and B. A. Collier. 2015. Habitat selection, incubation, and incubation recess ranges of nesting female Rio Grande wild turkeys in Texas. Texas Chapter of the Wildlife Society, Corpus Christi, TX.
- Oetgen, J. G., J. Barrow, K. Mote, M. D. Conley, and B. A. Collier. 2013. Spring and summer movement patterns of Rio Grande wild turkey hens in Texas. Southeastern Association of Fish and Wildlife Agencies Annual Meeting, Oklahoma City, OK.
- Barrow, J., J. G. Oetgen, K. Mote, M. D. Conley, and B. A. Collier. 2013. Nest site characteristics of Rio Grande wild turkey hens in Texas. Southeastern Association of Fish and Wildlife Agencies Annual Meeting, Oklahoma City, OK.
- \*Conely, M. D., J. G. Oetgen, J. Barrow, K. Mote, M. D. Conley, and B. A. Collier. 2013. Movement ecology of Rio Grande wild turkey broods in Texas. Southeastern Association of Fish and Wildlife Agencies Annual Meeting, Oklahoma City, OK.
- \*Page, C. T. Bartoskewitz, J. Hardin, and B. A. Collier. 2012. Roosting habitat and site fidelity of Rio Grande wild turkeys in the Texas Cross Timbers. Texas Chapter of the Wildlife Society, Ft. Worth, TX.
- \*Hand, K., T. Jacobs, C. D. Mason, B. L. Pierce, and B. A. Collier. 2012. Development of a framework for a white-winged dove parts collection survey. Texas Chapter of the Wildlife Society, Ft. Worth, TX.
- Collier, B. A., and M. J. Chamberlain. 2012. GPS derived hen movements and habitat use in Texas rangelands. Technical Committee Meeting, National Wild Turkey Federation National Meeting, Nashville, TN.
- Chamberlain, M. J., and B. A. Collier. 2012. Implementing a regional effort to study wild turkeys. Technical Committee Meeting, National Wild Turkey Federation National Meeting, Nashville, TN.
- Chamberlain, M. J., M. Byrne, J. Stafford, K. L. Skow, and B. A. Collier. 2012. Effects of opening the Morganza Spillway on wild turkeys. Technical Committee Meeting, National Wild Turkey Federation National Meeting, Nashville, TN.



- Collier, B. A. 2011. Invited Seminar: Using penalized splines for spatial mapping of species demographic parameters. Trinity University, BioMathematics Program, Department of Biology and Department of Mathematics, San Antonio, TX.
- Collier, B.A. 2011. Invited Seminar: Spatial demography of an urbanized migratory bird: white-winged doves in Texas. Auburn University, School of Forestry and Natural Resources, Auburn, AL.
- Chamberlain, M. J., B. A. Collier, and W. F. Porter. 2011. Implementing a regional effort to study wild turkeys. Technical Committee Meeting, National Wild Turkey Federation National Meeting, Nashville, TN.
- Collier, B.A., M. J. Chamberlain, and W. F. Porter. 2011. Synchronizing telemetry and turkey phenology: bridging gaps in demography and habitat selection. Technical Committee Meeting, National Wild Turkey Federation National Meeting, Nashville, TN.
- Collier, B.A., and M. J. Chamberlain. 2011. Redirecting research for wild turkeys using global positioning system transmitters. Proceedings of the National Wild Turkey Symposium. National Conservation Training Center, Shepardstown, WV.
- \*Melton, K. B., J. Z. Dreibelbis, R. Aguirre, J. B. Hardin, N. J. Silvy, M. J. Peterson, and B. A. Collier. 2011. Reproductive parameters of Rio Grande wild turkeys on the Edwards Plateau, Texas. Proceedings of the National Wild Turkey Symposium. National Conservation Training Center, Shepardstown, WV.
- \*Dreibelbis, J. Z., J. D. Guthrie, R. J. Caveny, J. B. Hardin, N. J. Silvy, M. J. Peterson, and B. A. Collier. 2011. Predator community and researcher-induced impacts on nest success of Rio Grande wild turkeys in Texas. Proceedings of the National Wild Turkey Symposium. National Conservation Training Center, Shepardstown, WV.
- Collier, B. A. and J. L. Laake. 2010. Mark-recapture distance sampling for avian point count surveys. 17<sup>th</sup> Annual Meeting of the Wildlife Society, Snowbird, UT.
- Collier, B. A. and J. D. Guthrie. 2010. Invited Symposium Speaker: Modeling animal movements in heterogeneous landscapes: a case study using wild turkeys in Texas. 17<sup>th</sup> Annual Meeting of the Wildlife Society, Snowbird, UT.
- \*Guthrie, J. D., B. A. Collier, J. Hardin, and M. J. Peterson. 2010. Evaluating movements and habitat use of wild turkeys using uGPS. 17<sup>th</sup> Annual Meeting of the Wildlife Society, Snowbird, UT.
- \*Groce, J. E., and B. A. Collier. 2010. Predicting golden-cheeked warbler distribution in Texas. 17<sup>th</sup> Annual Meeting of the Wildlife Society, Snowbird, UT.
- \*Guthrie, J. G., M. J. Peterson, and B. A. Collier. 2010. Using  $\mu$ GPS to predict Rio Grande wild turkey movements and habitat use. Texas Chapter of the Wildlife Society, Galveston, TX.
- \*Hurst, Z. M., R. A. McCleery, B. A. Collier, N. J. Silvy, and A. Monadjem. 2010. Small mammal assemblages on a conservation-agriculture interface in Swaziland. Texas Chapter of the Wildlife Society, Galveston, TX.

### ***2.3 Membership in Professional Organizations***

The Wildlife Society (2005-Present)  
American Statistical Association (2005-Present)  
Boone and Crockett Club (2000-Present)  
National Wild Turkey Federation (Silver Life Member)

### ***2.4 University Service***

Louisiana State University Agricultural Center Information Technologies Governance Council-Louisiana State University System Faculty Representative (2021-present)

Louisiana State University System Search Committee–Louisiana State University System Chief Information Officer/CEO of System Information Technology (2020)

University Search Committee–Louisiana State University Executive Director of the Cox Communications Academic Center for Student Athletes (2020)

Louisiana State University System Information Technologies Governance Council-Louisiana State University System Faculty Representative (2019-present)

Louisiana State University–Departmental Review Committee: Department of Physics and Astronomy (2019)

Louisiana State University Faculty Senate-College of Agriculture Faculty Representative (2018-2021)

Louisiana State University Agricultural Center-Global Network Advisory Committee (2017-Present)

Wildlife Faculty Search Committee (2015, 2018)

Institutional Animal Care and Use Committee (IACUC)-Louisiana State University Agricultural Center (2014-present)

Louisiana Department of Wildlife and Fisheries Hunting and Fishing Advisory Education Council-Louisiana State University Representative (2014-present)

Louisiana Department of Wildlife and Fisheries Feral Hog Advisory Task Force, Louisiana State University Representative (2016-2020)

### ***2.5 Professional Service***

*Editor:* Wildlife Society Bulletin (2020-Present)

*Associate Editor:* National Wild Turkey Symposium (2020)

*Associate Editor:* Journal of Wildlife management (2004–2020)

*Associate Editor:* Wildlife Society Bulletin (2011–2020)

*Referee (as requested)*

Journal of Wildlife Management (2000-2020)

Wildlife Society Bulletin (2002–2020)

Journal of the Southeastern Association of Fish and Wildlife Agencies (2006–2020)  
Ecosphere (2012, 2014, 2016–2019)  
Plos One (2015, 2016–2018)  
Ecology (2014, 2016–2018)  
Ecology and Evolution (2017–2019)  
Journal of Agricultural, Biological, and Environmental Statistics (2012, 2013, 2019)  
Biometrics (2009, 2012)  
Journal of Field Ornithology (2015, 2016, 2018–2019)  
Auk (2011, 2014, 2016–2019)  
Condor (2015–2019)  
Southeastern Naturalist (2015)  
Wildlife Biology (2013, 2015)  
Wilson Journal of Ornithology (2011–2019)  
Western North American Naturalist (2017, 2018)

*The Wildlife Society*

Faculty Advisor, LSU Student Chapter (2014–2018)  
Host School Program Director, Southeastern Wildlife Conclave (2018)

*Academic Member:* Southeast Wild Turkey Technical Committee

**2.6 *Affiliated University Academic Positions***

Applications Researcher – Institute for Applied Mathematics and Computational Science – Department of Statistics, Texas A&M University (2006–2014)

Adjunct Associate Professor, Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA (2018–present)

Associate Faculty, All Out Africa Research Unit, MR103, Lobamba, Eswatini (2006–present)

Affiliate Associate Professor, School of Forestry and Wildlife Sciences, Auburn University (2006–present)

Adjunct Professor, Department of Wildlife and Fisheries Sciences, Texas A&M University (2004–present)

### **3. Research Support**

Note: PI unless noted, applicable recovered funding (as %) noted when designated as Co-PI.

- 2021–Habitat utilization of Eastern wild turkeys in Texas. Texas Parks and Wildlife Department. PI. \$450,000.
- 2021–Assessing climate vulnerability in a highly adaptable, wide-ranging, harvested species: direct and indirect effects of climate on wild turkeys across the southeastern United States. United States Geological Survey, Southeast Climate Adaptation Science Center. Co-PI (with K. Pacifici, NCSU). \$296,358 (5%)
- 2020–Integrating live-dead telemetry data into survival, harvest, movements and abundance estimation. Texas Parks and Wildlife Department. PI. \$120,000.
- 2019–White-tailed deer recruitment estimation using digital camera surveys. Louisiana Department of Wildlife and Fisheries. PI. \$50,000.
- 2019–Molt timing for determining origin of Purple and Common Gallinules in Louisiana. United States Fish and Wildlife Service: Webless Migratory Game Bird Program. PI: \$27,384
- 2019–Evaluating landscape-level drivers of demography of wild turkeys in Louisiana. Louisiana Department of Wildlife and Fisheries. PI. \$894,561.
- 2018–Abundance estimation using camera surveys for wild turkeys in Texas. Texas Parks and Wildlife Department. PI. \$15,840.
- 2017–Preliminary evaluation of habitat selection of Northern Bobwhite Quail in Louisiana using GPS PinPoint transmitters. Louisiana Department of Wildlife and Fisheries. PI. \$35,041.
- 2017–Estimating survival and recovery rates of American woodcock in Louisiana. Louisiana Department of Wildlife and Fisheries. PI. \$6,000.
- 2017–Evaluation of Eastern wild turkey demography on Peason Ridge Wildlife Management Area and the Kisatchie National Forest. Louisiana Department of Wildlife and Fisheries. PI. \$275,004.
- 2017–Movement and reproductive ecology of Eastern wild turkeys in western Louisiana. Louisiana Department of Wildlife and Fisheries. PI: \$128,550.
- 2016–Harvest and band recovery of wild turkeys in Texas. Texas Parks and Wildlife Department. PI: \$282,408.
- 2016–Evaluation of reproductive phenology and ecology of Eastern wild turkeys in South Carolina. PI: South Carolina Department of Natural Resources. \$282,933.
- 2015–Evaluating habitat selection of Northern Bobwhite Quail in Texas using GPS PinPoint transmitters. Texas Parks and Wildlife Department. PI: \$150,820.
- 2015–Movement and reproductive ecology of Eastern wild turkeys in western Louisiana. Louisiana Department of Wildlife and Fisheries. PI: \$257,420.

- 2015–Preliminary evaluation of reproductive phenology and ecology of Eastern wild turkeys on Barksdale Air Force Base (DoD). PI: \$97,500.
- 2015–Wild turkey habitat selection in the Texas Oaks and Prairies. Texas Parks and Wildlife Department. PI. \$390,851.
- 2015–Deer disturbance from small game hunting activities. Louisiana Department of Wildlife and Fisheries. PI. \$109,760.
- 2015–Population ecology and habitat selection of Rio Grande wild turkeys in Texas. Texas State Chapter NWTF. PI. \$6,300.
- 2015–Field testing and implementation of PinPoint Global Positioning System (GPS) transmitter for use on ground nesting birds. Texas Parks and Wildlife Department. PI. \$80,000.
- 2015–Identifying forested habitats supporting wintering American woodcock (*Scolopax minor*) in Louisiana. Louisiana Department of Wildlife and Fisheries. PI. \$191,220.
- 2015–White-winged Dove (*Zenaidia macroura*) Needs Assessment: Aggregating Information, Identifying Gaps, and Synthesizing Current Knowledge. U.S. Fish and Wildlife Service and Texas Parks and Wildlife Department. PI. \$48,400.
- 2014–Preliminary evaluation of reproductive phenology and ecology of Eastern wild turkeys in South Carolina. South Carolina Department of Natural Resources. \$358,405.
- 2014–Field evaluation of the applicability of a PinPoint Global Positioning System (GPS) transmitter for use on ground nesting birds. Texas Parks and Wildlife \$24,973.
- Note: Grants below this point are prior to my arrival at LSU**
- 2013–Movement driven habitat suitability modeling of Rio Grande wild turkeys in Texas. Texas Parks and Wildlife Department. PI. \$160,000.
- 2013–Population ecology and habitat selection of Rio Grande wild turkeys in Texas. Texas State Chapter NWTF. PI. \$6,800.
- 2013–Assessing wild turkey movements, ecology, and susceptibility to harvest related to supplemental feed for bobwhite quail. South Carolina Department of Natural Resources. PI. \$174,350.
- 2013–Movement driven habitat suitability modeling of Rio Grande wild turkeys in Texas. Texas Parks and Wildlife Department. PI. \$326,000.
- 2013–Population ecology and habitat selection of Rio Grande wild turkeys in Texas. Texas State Chapter NWTF. PI. \$6,000.
- 2012–Population ecology and habitat selection of Rio Grande wild turkeys in Texas. Texas Parks and Wildlife Department. PI. \$26,000.
- 2012–Population ecology and habitat selection of Rio Grande wild turkeys in Texas. Texas State Chapter NWTF. PI. \$5,000.

- 2011–Impacts of wildfire on grassland avian and mammalian population response. Texas Parks and Wildlife Department. PI. \$15,000.
- 2011–Development and evaluation of a parts collection survey for white-winged doves (*Zenadia asiatica*) in the southwestern United States. Texas Parks and Wildlife Department. PI. \$46,427
- 2011–Development and evaluation of a parts collection survey for white-winged doves (*Zenadia asiatica*) in the southwestern United States. USFWS Webless Migratory Game Bird Research Program: PI. \$95,224 (Collaborating States: TX, NM, AZ, CA)
- 2011–Population ecology and habitat selection of Rio Grande wild turkeys in Texas. National Wild Turkey Federation: PI. \$93,000
- 2010–Habitat-based sampling program for Rio Grande wild turkeys in the south Texas coastal plains. Texas Parks and Wildlife Department. PI. \$18,000
- 2010–Evaluation of high resolution  $\mu$ GPS for monitoring Rio Grande wild turkey movement ecology. Texas Parks and Wildlife Department. PI. \$46,000
- 2009–Rio Grande wild turkey habitat selection using high precision micro-GPS. Texas Parks and Wildlife Department. PI. \$11,500.
- 2008–Eco-regional meta-analysis of Rio Grande wild turkey populations: setting the stage for management and decision making. Texas Parks and Wildlife Department. PI. \$115,000.
- 2007–Habitat evaluation guide for Rio Grande wild turkey incentive program development. Texas Parks and Wildlife Department. PI. \$48,346.
- 2007–Harvest-based incentive program for wild turkey populations in Texas. Texas Parks and Wildlife Department. PI. \$399,575.
- 2006–Brood sex ratio variation, juvenile breeding propensity, and implications for population productivity and management of Rio Grande wild turkeys in Texas. Texas Parks and Wildlife Department. PI. \$11,800
- 2006–Rio Grande wild turkey distribution and abundance estimation using combined presence/absence and replicated count statistics. Texas Parks and Wildlife Department. PI. \$499,000.
- 2006–White-winged dove reproductive ecology in Texas. Texas Parks and Wildlife Department. PI. \$29,325.
- 2006–Monitoring survival, harvest, and recruitment of urban white-winged doves in the southwestern United States. Texas Parks and Wildlife Department. PI. \$430,819

#### **4. Research Focus**

The principal objective of Dr. Collier’s research over the last 17 years has been to examine how wildlife species interact with their habitats, how wildlife-habitat interactions influence population processes, and how to determine the response of wildlife populations to habitat manipulation. Investigations by Dr. Collier and his students focus on identifying linkages between wildlife resource selection and demographic responses that support conservation planning. Applied research with upland game has

definable relationships between changing landscapes and population dynamics that are being used to support and improve land management (forestry and range) decisions. In addition to pursuing field studies, Dr. Collier's research group focuses on development and application of mathematical methods and associated open source software to better estimate temporal and spatial constraints on habitat utilization for a wide variety of upland wildlife species. Since arriving at LSU in (2014) following a 10-year period at Texas A&M University, Dr. Collier's laboratory has secured both federal and state grant funding (~\$4,579,728), published 60 peer-reviewed manuscripts ( $n = 109$  for career), 1 book, 3 book chapters, provided direct training to 14 M.S students, 1 Ph.D. student, 3 post-doctoral research associate, and 18 undergraduate students in wildlife ecology and management projects.

### ***5. Academic Background***

Associate Professor, School of Renewable Natural Resources, Louisiana State University, Baton Rouge, LA (2017–Present)

Assistant Professor, School of Renewable Natural Resources, Louisiana State University, Baton Rouge, LA (2014–2017)

Senior Research Scientist, Institute of Renewable Natural Resources, Texas A&M University, College Station, Texas (2007–2014)

Post-Doctoral Research Associate, Department of Wildlife and Fisheries Sciences, Texas A&M University, College Station, Texas (2004–2006)

Doctor of Philosophy, Department of Biological Sciences, University of Arkansas, Fayetteville, Arkansas (December 2004)

Dissertation Title: Evaluating impact of selective harvest management on age structure and sex ratio of white-tailed deer (*Odocoileus virginianus*) in Arkansas.

Master of Science, Department of Agricultural Economics, Oklahoma State University, Stillwater, Oklahoma (August 1999)

Thesis Title: White-tailed deer hunting in Oklahoma: an economic analysis of deer hunter preferences in 1998.

Bachelor of Arts, Economics, Eastern Illinois University, Charleston, IL (May 1997)

## **Teaching (33% Appointment)**

### ***1. Documentation of Teaching Activities***

RNR 4064 – African Wildlife Ecology –Spring 2015 – 11 Enrolled

RNR 4064 – African Wildlife Ecology –Fall 2015 – 11 Enrolled

RNR 4064 – African Wildlife Ecology –Spring 2016 – 5 Enrolled

RNR 4064 – African Wildlife Ecology –Fall 2016 – 5 Enrolled

RNR 4064 – African Wildlife Ecology –Fall 2020 – 8 Enrolled

RNR 4110 – African Wildlife Ecology – Fall 2019 – 8 Enrolled

RNR 4120 – Coastal Wildlife Ecology – Fall 2018– 6 Enrolled

RNR 4120 – Coastal Wildlife Ecology – Spring 2019– 8 Enrolled

RNR 7072 – Ecological Programming – Spring 2015 – 22 Enrolled

RNR 7072 – Graduate Seminar in Wildlife – Spring 2020 – 8 Enrolled

RNR 3018 – Ecology and Management of Southeastern Wildlife – Spring 2015 – 56 Enrolled

RNR 4011 – Wildlife Management Techniques – Fall 2014 – 43 Enrolled

RNR 4011 – Wildlife Management Techniques – Fall 2015 – 30 Enrolled

RNR 4011 – Wildlife Management Techniques – Fall 2016 – 30 Enrolled

RNR 4011 – Wildlife Management Techniques – Fall 2017 – 30 Enrolled

RNR 4011 – Wildlife Management Techniques – Fall 2018 – 41 Enrolled

RNR 4011 – Wildlife Management Techniques – Fall 2019 – 44 Enrolled

RNR 4011 – Wildlife Management Techniques – Fall 2020 – 43 Enrolled

RNR 4011 – Wildlife Management Techniques – Fall 2021 – 31 Enrolled

RNR 3913 – Quantitative Methods in Fisheries and Wildlife – Fall 2019 – 7 Enrolled

RNR 3913 – Quantitative Methods in Fisheries and Wildlife – Fall 2021 – 18 Enrolled

RNR 4062 – Mammalian Ecology and Management – Spring 2018 – 2 Enrolled

RNR 4062 – Mammalian Ecology and Management – Fall 2021 – 8 Enrolled

RNR 7011 – Mammalian Ecology and Management – Fall 2021 – 3 Enrolled

RNR 4913 – Population Dynamics – Fall 2018 – 6 Enrolled

RNR 4913 – Population Dynamics – Fall 2020 – 22 Enrolled

RNR 7013 – Population Dynamics-Graduate – Fall 2016 – 8 Enrolled

RNR 7013 – Population Dynamics-Graduate – Fall 2018 – 3 Enrolled

RNR 7013 – Population Dynamics-Graduate – Fall 2020 – 3 Enrolled

RNR 7015 – Upland Game Bird Ecology and Management – Spring 2018 – 3 Enrolled

RNR 7029 – Wildlife and Fisheries Population Dynamics– Fall 2017 – 7 Enrolled

RNR 7029 – Field and Research Techniques – Fall 2020 – 8 Enrolled



During my time at Texas A&M University, I was also responsible for both undergraduate and graduate courses, as listed below.

WFSC 681 – Statistical Parameter Estimation – Texas A&M University Enrolled: ~10/yr (taught every other year)

WFSC 424/624 – Applied Population Dynamics – Texas A&M University Enrolled: ~12-16/yr (taught every other year)

WFSC 409/609 – Wildlife Research Methods – Texas A&M University Enrolled: ~12-16/yr (taught every 3rd year)

WFSC 489/689 – Sampling Wildlife Populations – Texas A&M University Enrolled: ~8-12/yr (taught every 3rd year)

## **2. Course Details**

### **Graduate Courses**

*Ecological Programming* (RNR–7029, Louisiana State University). Graduate course designed to support development of computations skills and software platform understanding. Graduate students are exposed to a wide variety of computational platforms focused on the design, management, and analysis of wildlife and fisheries data. Students develop semester long projects, typically tied to their thesis research topics with a resultant analytical methods and results document developed with an associated research presentation.

*Field and Ecological Research Techniques* (RNR–7029, Louisiana State University). Graduate course designed to develop mechanistic linkages between field research, data methods and policy considerations. Students develop semester long species policy focused projects, typically tied to thesis research with a resultant policy recommendation document as the course capstone document.

*Ecological Sampling Design* (RNR–7029, Louisiana State University). Graduate course designed to introduce wildlife and fisheries graduate students to design considerations when planning field studies. Graduate students are exposed to a suite of sample study design options, ranging from varieties of random sampling schema through more complex geo-spatial balanced sampling designs. Students are trained in appropriate design methods to support future analysis needs.

*Wildlife Population Dynamics* (RNR–7013, Louisiana State University). Graduate course focused on quantitative skill set development for parameter estimation in wildlife and fisheries studies supporting policy decisions at the local and regional scales. Graduate students are trained on introductory methods for estimation of both population state and demographic parameters and how to translate demographic information in to decision processes. Students utilize a suite of statistical platforms including MARK, Presence, Unmarked, WinBUGS, JAGS, and R.

*Mammalian Ecology and Management* (RNR–4062/7011, Louisiana State University). Split level course designs to expose and equip senior undergraduates and graduate students with knowledge on the life history, ecology, policy and management needs of mammals across the southeastern United States. Students are appropriately trained in ecology of a variety of species and the resultant semester long project, developed in collaboration with the Louisiana Department of Wildlife and Fisheries, results in a peer-reviewed publication with students in the class as the authors.

*Statistical Parameter Estimation* (RNR 7029, Louisiana State University). Graduate course focused on application of quantitative parameter estimation methods in wildlife and fisheries studies. Graduate students are trained on high level methods for statistical estimation for both population state and demographic parameter estimation. Students utilize a suite of platforms including S, R, C++, Python and Stan.

*Applied Population Dynamics* (WFSC-624, Texas A&M University). Graduate course focused on quantitative skill set development for parameter estimation in wildlife and fisheries studies. Graduate students are trained on introductory methods for estimation of both population state and demographic parameter estimation. Students utilize a suite of statistical platforms including MARK, Presence, Unmarked, WinBUGS, and JAGS.

*Wildlife Research Methods* (WFSC-609, Texas A&M University). Graduate course focused on introducing 1st semester graduate students to basics of wildlife and fisheries study designs. Course design is focused on developing basic understanding of data acquisition and storage methods, data evaluate and summarization, development of graphing methods and introduction to a broad spectrum of wildlife and fisheries study design topics.

*Sampling Wildlife Populations*, WFSC-689, Texas A&M University). Graduate course designed to integrate wildlife graduate students with design considerations when planning field studies. Graduate students develop and apply a variety of sample study design options to preliminary data. Students are trained in appropriate design methods to support future analysis needs.

#### ***Undergraduate Courses:***

*Wildlife Management Techniques* (RNR-4011, Louisiana State University). Undergraduate course that introduces and trains senior undergraduates on techniques for field research and policy issues associated with management of wildlife populations. Course topics incorporate wildlife age and sex criteria, field techniques for trapping avian, mammalian, reptile and amphibian species, vegetation and habitat sampling, forestry and habitat management. Additionally, this course serves as the foundational course for the Collegiate New Hunter Program I co-direct at Louisiana State University wherein students are offered the option to take Hunter's Education and I, in conjunction with other faculty, provide seniors their first hunting opportunity. Area of Concentration Required Course.

*Wildlife Population Dynamics* (RNR-4913, Louisiana State University). Undergraduate course focused on quantitative skill set development for parameter estimation in wildlife and fisheries studies supporting policy decisions at the local and regional scales. Undergraduate students are introduced to methods for estimation of population demographic parameters, population balance equations, and structured decision making. Students are introduced to R and MARK. Area of Concentration Required Course.

*Mammalian Ecology and Management* (RNR-4062, Louisiana State University). Split level course designs to expose and equip senior undergraduates with knowledge on the life history, ecology, policy and management needs of small and large mammals across the southeastern United States. Students are trained on zoology, ecology, physiology and systematics for mammalian species with specific focus on management and conservation activities use for large mammal species.

*African Wildlife Ecology* (RNR-4064/4120, Louisiana State University). Split level International study abroad field course, wherein I take 8-16 junior/senior level students to Eswatini, Mozambique and South Africa on a 4 week field course. Course topics include mammalian and avian ecology in semi-arid lowveld and grassland savannah environments and ecosystem ecology in estuarine and coastal environments. Course integrates a wide variety of field sampling activities and well as cultural

engagement with wildlife-related conservation entities and local communities focused on natural system integration. Course culminates with 3 days of field activities at The Kruger Park in conjunction with local NGO's in Eswatini and South Africa.

*Upland Game Bird Ecology and Management* (RNR–4062/7015, Louisiana State University). Split level course developed to introduce senior level and graduate students to ecology and management of upland and migratory upland game birds. Primary course focus is on life history theory, harvest management, and habitat conservation and management. Range of topics includes species such as wild turkey, woodcock, rail's and sora's, grouse, quail, doves, and gallinules.

*Quantitative Methods in Fisheries and Wildlife* (RNR–3913, Louisiana State University). Undergraduate course focused on statistical skill set development for evaluation of field data collected during wildlife and fisheries studies. Students are trained on introductory methods for data collection, management and statistical tests utilized to evaluate impact of treatments. Students utilize R for analysis and LaTeX/markdown for all homework. Wildlife Area of Concentration Required Course.

*Ecology and Management of Southeastern Wildlife* (RNR–3018, Louisiana State University). Undergraduate course that introduces students to basic biology, life history, identification, and evolution of birds, mammals, reptiles and amphibians found in Louisiana and the southeastern United States. Wildlife Area of Concentration Required Course.

*Applied Population Dynamics* (WFSC–424, Texas A&M University). Undergraduate course focused on quantitative skill set development for parameter estimation in wildlife and fisheries studies. Undergraduate students are introduced to methods for estimation of population demographic parameters and population balance equations. Students are introduced to MARK and SAS.

### **3. Graduate Committees – Major Professor**

\*Denotes Chair of Committee

Justin Dreibelbis – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2008 (M.S.)

Robert Caveny – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2009 (M.S.)

Mason Conley – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2016 (M.S.)

Luke Scroggs – Department of Wildlife and Fisheries Sciences, Texas A&M University. Expected Graduation 2016 (M.S.)

Patrick Wightman – School of Renewable Natural Resources, Louisiana State University. Graduated 2017 (M.S.)

Lisa Elizondo – School of Renewable Natural Resources, Louisiana State University. Graduated 2018 (M.S.)

Landon Schofield – School of Renewable Natural Resources, Louisiana State University. Graduated 2018 (M.S.)

Nick Bakner – School of Renewable Natural Resources, Louisiana State University. Graduate 2018 (M.S.)

Jacob White – School of Renewable Natural Resources, Louisiana State University. Graduated 2018 (M.S.)

Alaina Gerrits – School of Renewable Natural Resources, Louisiana State University. Graduated 2019 (M.S.)

David Moscicki – School of Renewable Natural Resources, Louisiana State University. Graduated 2020 (M.S.)

Erin Ulrey – School of Renewable Natural Resources, Louisiana State University. Graduated 2020 (M.S.)

Chad Argabright – School of Renewable Natural Resources, Louisiana State University. Expected Graduation 2022 (M.S.)

Andrew Byers – School of Renewable Natural Resources, Louisiana State University. Expected Graduation 2023 (M.S.)

#### ***4. Graduate Committees – Committee Member***

Kyle Melton – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2007 (M.S.)

Christopher Lituma – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2009 (M.S.)

Miguel Licona – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2009 (M.S.)

Melissa Lackey – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2009 (M.S.)

Tara Conklin – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2009 (M.S.)

Lisa Vormwald – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2010 (M.S.)

Zach Hurst – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2010 (M.S.)

Terri Pope – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2010 (Ph.D.: Co Chair)

Andrew Golnar, Department of Entomology, Texas A&M University. Graduated 2014 (M.S.)

Gabriela Sosa – Department of Wildlife and Fisheries Sciences, Texas A&M University. Graduated 2019 (Ph.D.: Co-Chair)

Clay Stroud – School of Renewable Natural Resources, Louisiana State University. Graduated 2018 (M.S.)

Ashley Lohr – Warnell School of Forestry and Natural Resources, University of Georgia. Graduated 2020 (M.S.)

Jacob Bushaw – School of Renewable Natural Resources, Louisiana State University. Graduated 2019 (M.S.)

Calvin Wakefield – Warnell School of Forestry and Natural Resources, University of Georgia. Graduated 2020 (M.S.)

Jamie Goethlich – School of Forestry and Wildlife Sciences, Auburn University. Graduated 2020 (M.S.: Co-Chair)

Patrick Wightman – Warnell School of Forestry and Natural Resources, University of Georgia. Expected Graduation 2022 (Ph.D.)

Mariah McInnis – School of Forestry and Wildlife Sciences, Auburn University. Graduated 2021 (M.S.)

Nick Bakner – Warnell School of Forestry and Natural Resources, University of Georgia. Expected Graduation 2023 (Ph.D.)

Erin Ulrey – Warnell School of Forestry and Natural Resources, University of Georgia. Expected Graduation 2024 (Ph.D.)

David Moscicki – Department of Forestry and Wildlife. North Carolina State University. Expected Graduation 2023 (Ph.D.)

Travis Stoakley – School of Forestry and Wildlife Sciences, Auburn University. Expected Graduation 2023 (M.S.)