

# Tricia A. Miller

*Executive Director  
Research Wildlife Biologist  
Conservation Science Global, Inc.  
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*Adjunct Faculty  
Division of Forestry & Natural Resources  
West Virginia University  
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## **Education**

The Pennsylvania State University  
Ph.D., Ecology

The Pennsylvania State University  
M.Sc., Ecology

University of Nevada, Las Vegas  
B.S., Biology

## **Selected Experience**

**Executive Director & Research Wildlife Biologist**  
*Conservation Science Global, Inc.*

**Adjunct Faculty**  
*West Virginia University*

**Wildlife Biologist**  
*West Virginia University*

**Adjunct Faculty**  
*Western Illinois University*

**Adjunct Faculty**  
*St Vincent College, Department of Environmental Science*

**Research Assistant**  
*The Pennsylvania State University & National Aviary*

**GIS Lab Manager**  
*Carnegie Museum of Natural History, Powdermill Nature Reserve*

**GIS Technician and Data Manager**  
*2<sup>nd</sup> Pennsylvania Breeding Bird Atlas*

**GIS Technician**  
*Penn State Cooperative Wetlands Center*

**Sep 2017 - present**  
West Cape May, NJ

**Jan 2017 – present**  
Morgantown, WV

**April 2011 – Sep 2017**  
Morgantown, WV

**May 2015– present**  
Macomb, IL

**Jan 2011 – Jan 2014**  
Latrobe, PA

**Sep 2007 – April 2011**  
University Park & Pittsburgh, PA

**May 2006 – April 2011**  
Rector, PA

**Dec 2004 – May 2006**  
Rector, PA

**Sept 2003 – Dec 2004**  
University Park, PA

## **Other Experience**

**Field Biologist.** Conducted turtle surveys, assisted with bird banding. Powdermill Nature Reserve, Carnegie Museum of Natural History, Rector, PA, April – August 2004

**Golden-Winged Warbler Surveyor,** Conducted play-back surveys for Golden-winged Warblers throughout Pennsylvania. Golden-winged Warbler Atlas Project, Cornell University, May - June 2002

**Field Biologist,** Conducted breeding bird surveys in northern Pennsylvania. Pennsylvania Audubon Society, May – June 2001

**Field Biologist,** Conducted Peregrine Falcon nest surveys throughout Colorado. Colorado Division of Wildlife, Ft. Collins, CO, Apr – July 2000

**Bald Eagle Nest Watcher.** Feb – June 1999. Observed and protected nesting Bald Eagles in Arizona. Arizona Game & Fish, Phoenix, AZ. Nest Searcher

**Field Biologist.** May – Aug 1998. Conducted point counts and nest surveys for song birds in central Idaho. Sustainable Ecosystems Institute. Boise, ID.

**Field Biologist.** Aug – Nov 1998. Trapped and banded raptors and filled in for hawk counters in the Goshute Mountains, NV. HawkWatch International. Salt Lake City, UT.

**Other Experience**

- Field Biologist.** Feb - May 1998. Setup new raptor banding station and observation site in the Jordanelle Mountains, UT; Trapped and banded raptors and counted migrant raptors. HawkWatch International. Salt Lake City, UT.
- Field Biologist.** Aug – Nov 1997. Trapped and banded raptors and filled in for hawk counters in the Goshute Mountains, NV. HawkWatch International. Salt Lake City, UT.
- Field Biologist.** Feb – May 1997. Educated visitors, counted migrant raptors, and trapped and banded raptors and filled in for hawk counters in the Goshute Mountains, NV. HawkWatch International. Salt Lake City, UT.
- Field Biologist.** Nov – Dec 1997. Conducted transect surveys for the endangered San Clemente Loggerhead Shrike. Endangered Species Recovery Council. San Clemente Island, CA
- Field Biologist.** May - July 1997. Lead target netting and banding team for long-term study of songbirds in northern Arizona. University of Montana, Missoula, MT.
- Field Biologist.** Aug - Nov 1996. Counted migrating raptors during fall. Florida Keys Hawk Migration Count. Grassy Key, FL
- Field Biologist.** Apr - Aug 1996. Ran three MAPS bird banding stations in central Missouri. Institute for Bird Populations. Point Reyes, CA.

**Skills**

- Statistics and modeling: resource selection, mark-recapture, home range, mixed models
- GIS: Spatial analysis, cartography, geodatabases
- Telemetry: attachment, database creation and management, data analysis
- Bird Banding: Federally permitted to capture, band, telemeter, and obtain blood samples from birds of prey, including eagles
- Computer Program Proficiency: ArcView 3.2, ArcGIS 9.0 & above, R, MS Access, MS Office Suite

**Awards**

- Wings Across the Americas – Research, Management & Partnership Award – for Eastern Golden Eagle Working Group. 2013
- Best Student Presentation Award. 2011. Raptor Research Foundation Annual Meeting
- 2011 Pennsylvania Society for Ornithology Conservation Award with Todd Katzner, Michael Lanzone & David Brandes

**Organizations**

- Chairman of the Board – Conservation Science Global, Inc. – 2016 - present
- Participating Member – Eastern Golden Eagle Working Group – 2010 – present
- Participating Member – ProjectSNOWstorm – 2013 - present
- Board Member – Somerset County Conservancy – 2012 - present
- Board Member – West Cape May Environmental Commission – 2016 - present
- Member – Raptor Research Foundation – 2012 - present

**Scientific Reviewing**

Animal Conservation  
Ornitologia Neotropica  
Journal of Raptor Research

Nature Conservation  
The Condor  
Journal of Field Ornithology

Biological Conservation  
Landscape & Urban Planning

**Thesis & Dissertation**

- Miller, T.A.** 2012. Movement Ecology of Golden Eagles in Eastern North America. Dissertation. Intercollege Graduate Degree Program in Ecology. The Pennsylvania State University. University Park, PA.
- Miller, T.A.** 2007. Habitat Modeling, Validation and Creation Using 2<sup>nd</sup> Pennsylvania Breeding Bird Atlas Data. Master's Thesis. Intercollege Graduate Degree Program in Ecology. The Pennsylvania State University. University Park, PA.

**Peer-Reviewed Publications**

32. **Miller, T.A.**, J. Cooper, A.E. Duerr, M.E. Braham, J.T. Anderson, and T.E. Katzner. 2019. Movements of Bald Eagles during the first three years of life: implications for bird aircraft strike hazard. *Journal of Wildlife Management*. *In press*.
31. Duerr, A.E., **T.A. Miller**, L. Dunn, D.A. Bell, P.H. Bloom, R.N. Fisher, J.A. Tracey, T.E. Katzner. 2019. Topographic drivers of flight altitude over large spatial and temporal scales. *The Auk*. *In press*.
29. Duerr, A.E., M.E. Braham, **T.A. Miller**, J.L. Cooper, J.T. Anderson, and T.E. Katzner. 2019. Roost- and perch-site selection by Golden Eagles (*Aquila chrysaetos*) in eastern North America. *The Condor*. *In press*.
30. Pirotta, E., T.E. Katzner, **T.A. Miller**, A.E. Duerr, M.A. Braham, and L. New. 2018. State-space modelling of the three-dimensional behavior of a soaring bird provides new insights to migratory flight. *Functional Ecology*. 32(9):2205-2215. DOI:10.1111/1365-2435.13180.
28. Curk, T., T. McDonald, D. Zazelenchuk, S. Weidensaul, D. Brinker, S. Huy, N. Smith, **T.A. Miller**, A. Robillard, G. Gauthier, N. Lecomte, & J.F. Therrien. Irruptive snowy owls are not in a starving state during winter. *Canadian Journal of Zoology*. 96:553-558.
27. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, J. Cooper, K. O'Malley, J. Wilhelm, A. Duerr, and T.E. Katzner. 2017. Summer and winter space use and home range characteristics of Golden Eagles (*Aquila chrysaetos*) in eastern North America. *The Condor*. 119(4):697-719. DOI: 10.1650/CONDOR-16-154.1
26. Poessel, S., J. Brandt, **T.A. Miller**, and T.E. Katzner. 2017. Meteorological determinants of flight response of an obligate-soaring bird, the California condor (*Gymnogyps californianus*). *Ibis*. *Online*. DOI:10.1111/ibi.12531
25. Ecke, F., N. Singh, J. Arnemo, A. Bignert, B. Helander, Å. Berglund, H. Borg, C. Brojer, K. Holm, M.J. Lanzone, **T.A. Miller**, Å. Nordström, J. Raikonen, I. Rodushkin, E. Ågren, B. Hörnfeldt. 2017. Sub-lethal lead exposure alters movement behavior in free-ranging Golden Eagles. *Environmental Science & Technology*. 51(10):5729-5736. DOI: 10.1021/acs.est.6b06024
24. Rus, A., A.E. Duerr, **T.A. Miller**, J. Belthoff, and T.E. Katzner. 2017. Counterintuitive roles of experience and weather on migratory performance. *The Auk*. 134:485-497. DOI:10.1642/AUK-16-147.1
23. Therrien, J.F., S. Weidensaul, D. Brinker, S. Huy, T. McDonald, M.J. Lanzone, **T.A. Miller**, A. McGann, D. Weber, D. Crocket, G. Jacobs, F. Nicoletti, N. Mackentley, C. Neri, M. Shieldcastle, and N. Lecomte. 2017. Winter use of a highly diverse suite of habitats by irruptive Snowy Owls. *Northeast Naturalist*. 24(sp7): B81-B89. DOI: 10.1656/045.024.s712
22. Fallon, J., P. Redig, **T.A. Miller**, M.J. Lanzone, and T.E. Katzner. 2017. Guidelines for evaluation and treatment of lead poisoning of wild raptors. *Wildlife Society Bulletin*. 41(2): 205-211. DOI: 10.1002/wsb.762
21. Brown, J.L., B. Bedrosian, D.A. Bell, M.A. Braham, J. Cooper, R.H. Crandall, J. DiDonato, R. Domenech, A.E. Duerr, T.E. Katzner, M.J. Lanzone, D.W. LaPlante, C.L. McIntyre, **T.A. Miller**, R.K. Murphy, J.P. Smith, B.W. Smith, J.W. Watson, and B. Woodbridge. 2017. Patterns of spatial distribution of Golden Eagles across North America: how do they fit into existing landscape-scale mapping systems? *Journal of Raptor Research*. 51(3):197-215. DOI: 10.3356/JRR-16-72.1

**Peer-Reviewed Publications (Continued)**

20. Katzner, T.E., E. Bragin, A. Bragin, M. McGrady, **T.A. Miller**, and K. Bildstein. 2016. Loop migration lengthens travel distance and exposes a central Asian, long distance, trans-equatorial migrant to multiple risky migration bottlenecks. *Bird Study*. 63(3): 406-412.
19. Katzner T.E., D. Nelson, M. Braham, J.M. Doyle, A.E. Duerr, P. Bloom, **T.A. Miller** and J.A. DeWoody. 2016. Golden eagle fatalities demonstrate continental-scale consequences of local-scale renewable energy generation. *Conservation Biology*. 31:406-415. DOI: 10.1111/cobi.12836.
18. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, J. Cooper, K. O'Malley, C. Maisonneuve, J.A. Tremblay, J. Wilhelm, A. Duerr, and T.E. Katzner. 2016. Limitations and mechanisms influencing migratory performance of soaring birds. *Ibis*. 158(1): 116-134. DOI: 10.1111/ibi.12331
17. **Miller T.A.** and M.J. Lanzone. 2015. Gregarious winter roosting and early morning perching behavior of American Kestrels (*Falco sparverius*) in the Imperial Valley, CA. *Journal of Raptor Research*. 49(4):526-528
16. Katzner, T.E., V. Bennet, **T.A. Miller**, A. Duerr, M. Braham, A. Hale. 2016. Wind energy development: methods for pre-construction risk assessment for birds and bats. *Human-Wildlife Interactions*. 10: 42 – 52.
15. Katzner, T.E., P. Turk, A. Duerr, **T.A. Miller**, M.J. Lanzone, J. Cooper, D. Brandes, J. Tremblay, and J. Lemaitre. 2015. Use of multiple modes of flight subsidy by a soaring terrestrial bird, the golden eagle (*Aquila chrysaetos*), when on migration. *Journal of the Royal Society Interface*. 12(112).
14. Braham, M., **T. Miller**, A.E. Duerr, M. Lanzone, A. Fesnock, L. LaPre, D. Driscoll & T. Katzner. 2015. Home in the heat: dramatic seasonal variation in home range of desert golden eagles informs management for renewable energy development. *Biological Conservation*. 186:225-232.
13. Duerr, A.E., **Miller, T.A.**, K.C. Duerr, M.J. Lanzone, A. Fesnock & T.E. Katzner. 2015. Landscape-scale distribution and density of raptor populations wintering in anthropogenic-dominated desert landscapes. *Biodiversity and Conservation*. 24(10); 2365-2381.
12. Nelson, D., M. Braham, **T.A. Miller**, A.E. Duerr, J. Cooper, M.J. Lanzone, T.E. Katzner. 2015. Stable hydrogen isotopes identify leapfrog migration, degree of connectivity and summer distribution of Golden Eagles in eastern North America. *The Condor*. 117(3):414-429.
11. Katzner, T.E., **T.A. Miller**, J. Rodgrigue, and S. Shaffer. 2015. A most dangerous game: death and injury to birds from porcupine quills. *Wilson Journal of Ornithology*. 127:102-108.
10. Duerr, A.E., **T.A. Miller**, M. Lanzone, D. Brandes, J. Cooper, K. O'Malley, C. Maisonneuve, J.A. Tremblay, T.E. Katzner. 2015. Flight response of slope-soaring birds to seasonal variation in thermal generation. *Functional Ecology*. 29:779-790. doi: 10.1111/1365-2435.12381.
9. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, J. Cooper, K. O'Malley, C. Maisonneuve, J.A. Tremblay, A. Duerr, and T.K. Katzner. 2014. Assessing risk to birds from industrial wind energy development via paired resource selection models. *Conservation Biology*. 28(3):745-755.
8. Katzner, T.E., D. Brandes, **T.A. Miller**, M.J. Lanzone, C. Maisonneuve, J.A. Tremblay, R. Mulvihill, G. Merovich. 2012. Topography drives migratory flight altitude of golden eagles: implications for on-shore wind energy development. *Journal of Applied Ecology*. 49(5):1178-1186.
7. Lanzone, M.J., **T.A. Miller**, P. Turk, C. Halverson, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, R.P. Brooks, T.E. Katzner. 2012. Flight responses by a migratory soaring raptor to changing meteorological conditions. *Biology Letters*. 8(5):710-713.
6. Duerr, A.E., **T.A. Miller**, M. Lanzone, D. Brandes, J. Cooper, K. O'Malley, C. Maisonneuve, J.A. Tremblay, T.E. Katzner. 2012. Testing an Emerging Paradigm in Migration Ecology Shows Surprising Differences in Efficiency between Flight Modes. *PLoS ONE* 7: e35548.

**Peer-Reviewed Publications (Continued)**

5. Katzner, T., B.W. Smith, **T. A. Miller**, D. Brandes, J. Cooper, M. Lanzone, D. Brauning, C. Farmer, S. Harding, D. Kramar, C. Koppie, C. Maisonneuve, M. Martell, E.K. Mojica, C. Todd, J.A. Tremblay, M. Wheeler, D.F. Brinker, T.E. Chubbs, R. Gubler, K. O'Malley, S. Mehus, B. Porter, R.P. Brooks, B.D. Watts & K.L. Bildstein. 2012. Status, biology and conservation priorities for North America's eastern Golden Eagle (*Aquila chrysaetos*) population. *The Auk*. 129(1): 168-176.
4. Bohrer, G., D. Brandes, J.T. Mandel, K.L. Bildstein, **T.A. Miller**, M. Lanzone, T. Katzner, C. Maisonneuve, and J.A. Tremblay. 2012. Estimating Updraft Velocity Components over Large Spatial Scales: Contrasting Migration Strategies of Golden Eagles and Turkey Vultures. *Ecology Letters*. 15(2): 96-103.
3. Iverson S.A., A. Gavrilov, T.E. Katzner, J.Y. Takekawa, **T.A. Miller**, W. Hagemeyer, T. Munfkr, B. Sivananinthaperumal, C.C. DeMattos, L.S. Ahmed, and S.H. Newman. 2011. Migratory movements of waterfowl in Central Asia and H5N1 emergence: sporadic transmission of disease from east to west. *Ibis*. 153:279-292
2. **Miller, T.A.**, D. Brandes, M. J. Lanzone, D. Ombalski, C. Maisonneuve, and T.E. Katzner. 2010. Golden Eagle Migration and winter behavior in Pennsylvania. In *Avian Ecology and Conservation: A Pennsylvania Focus with National Implications*. Ed. S.K. Majumdar. Pennsylvania Academy of Science. Pennsylvania, USA.
1. Brandes, D., T.A. Miller, and T.E. Katzner. 2010. Emerging issues: Conservation challenges: Wind power mortality. In *Avian Ecology and Conservation: A Pennsylvania Focus with National Implications*. Ed. S.K. Majumdar. Pennsylvania Academy of Science. Pennsylvania, USA.

**Conference Proceedings & Published Reports**

6. Katzner, T., A. Duerr, **T. Miller**, M. Braham, J. Hall, D. Brandes, M. Lanzone & A. McGann. 2014. Movement Ecology of California Condors within the DRECP Area. Prepared for the California Department of Fish and Wildlife Cooperative Endangered Species Conservation Fund (Section 6) Grant # P1382015. 17 pp.
5. Katzner, T., A. Duerr, **T. Miller**, P. Turk, M. Braham, D. Brandes, M. Lanzone, P. Bloom, J.A. DeWoody & J. Doyle. 2014. Data collection and synthesis of current knowledge of golden eagles. Prepared for the California Department of Fish and Wildlife Cooperative Endangered Species Conservation Fund (Section 6) Grant #P1182024. 22 pp.
4. Katzner, T., P. Turk, A. Duerr, D. Brandes, **T. Miller**, M. Lanzone. 2012. Golden Eagle Home Range, Habitat Use, Demography and Renewable Energy Development in the California Desert – Interim Report to the Bureau of Land Management, California State Office.
3. Maisonneuve, C., **T. Miller**, J.A. Tremblay, T. Katzner, M. Lanzone and D. Brandes. 2011. Differential vulnerability of Bald and Golden Eagles to wind turbine collision on breeding grounds in Québec. Proceedings of the Conference on Wind energy and Wildlife impacts, 2-5 May 2011, Trondheim, Norway. Roel May and Kjetil Bevanger (eds). NINA Report 693.
2. Tremblay, J.A., C. Maisonneuve, T. Katzner, **T. Miller**, M. Lanzone and D. Brandes. 2011. A case study of the interaction between landscape configuration and habitat use at a wind facility by golden eagles (*Aquila chrysaetos*). Proceedings of the Conference on Wind energy and Wildlife impacts, 2-5 May 2011, Trondheim, Norway. Roel May and Kjetil Bevanger (eds). NINA Report 693.
1. Maisonneuve, C., **T. Miller**, M. Lanzone, T. Katzner. 2009. Studies on threatened species of birds of prey and wind farms in eastern North America. *Birds of Prey and Wind Farms: Analysis of Problems and Possible Solution*. Documentation of an international workshop in Berlin, 21st and 22nd October 2008.

**Scientific Presentations & Sessions Organized**

86. **Miller T.A.**, S. Schmuecker, S., D. Becker, M. Lanzone, & T.E. Katzner. 2018. Use of upland and riparian landscapes by wintering Bald Eagles (*Haliaeetus leucocephalus*) in the midwestern USA. Raptor Research Foundation Annual Conference, Skukuza Rest Camp, Kruger National Park, South Africa.

**Scientific Presentations & Sessions Organized (continued)**

85. Katzner, T.E., M.A. Braham, J.C. Hall, J. Brandt, J. Burnett, A.E. Duerr, **T.A. Miller**, S. Poessel, M. Sur, & D. Brandes. 2018. Aeroecology predicts the movements of a terrestrial raptor, the California Condor. Raptor Research Foundation Annual Conference, Skukuza Rest Camp, Kruger National Park, South Africa.
84. Lanzone, M.J., S. Blackshire, & **T.A. Miller**. 2018. Activity and movement rates of nestling and fledgling bald eagles (*Haliaeetus leucocephalus*). Raptor Research Foundation Annual Conference, Skukuza Rest Camp, Kruger National Park, South Africa.
83. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, J.L. Cooper, & T.E. Katzner. 2018. Assessing risk to birds from industrial wind energy developments via paired resource selection models. Eagles of the Palearctic: Study and Conservation Conference. Katún, Altai Republic, Russia.
82. Katzner, T.E. **T.A. Miller** (presenter), A.E. Duerr, M.A. Braham, M.J. Lanzone, & J.L. Cooper. 2018. Eagle flight behavior and risk from wind energy. Eagles of the Palearctic: Study and Conservation Conference. Katún, Altai Republic, Russia.
81. Schmuecker, S., D. Becker, M. Lanzone, B. Fogg, T. Katzner & **T. A. Miller** (presenter). 2017. Presence of bald eagles in upland landscapes of the upper Midwest during winter: implications for wind energy. Wind Annual Meeting of the Raptor Research Foundation. Salt Lake City, Utah. Oral presentation.
80. **Miller, T.A.**, S. Blackshire, A. McGann, R. Fogg, & M.J. Lanzone. 2017. Identifying eagle behaviors using low-cost activity indices derived from high-cost accelerometry data. Biologging Symposium 6. Konstanz, Germany. Poster presentation.
79. Lanzone, M.J., A. McGann, **T.A. Miller**, R. Fogg, & S. Blackshire. 2017. Quantifying animal behavior using high frequency GPS sampling and accelerometry. Biologging Symposium 6. Konstanz, Germany. Poster presentation.
78. Schmuecker, S., D. Becker, M. Lanzone, B. Fogg, T. Katzner & **T. A. Miller**. 2016. Presence of bald eagles in upland landscapes of the upper Midwest during winter: implications for wind energy. Wind Wildlife Research Meeting XI. Broomfield, Colorado. Poster presentation.
77. **Symposium Chair**: Lead and raptors: exposure, treatment and management. 2016. Annual Meeting of the Raptor Research Foundation. Cape May, NJ, USA.
76. **Miller, T.A.**, M. Braham, A.E. Duerr, J. Cooper, M.J. Lanzone, J.T. Anderson & T.E. Katzner. 2016. Juvenile Bald Eagle (*Haliaeetus leucocephalus*) movements in the Chesapeake Bay, Virginia, USA. Annual Meeting of the Raptor Research Foundation. Cape May, NJ, USA. Oral presentation.
75. **Miller, T.A.**, M.J. Lanzone, D. La Puma, D. Brinker, J.F. Therrien, & S. Weidensaul. 2016. Flight behavior of Snowy Owls (*Bubo scandiacus*) in North America. Annual Meeting of the Raptor Research Foundation. Cape May, NJ, USA. Oral presentation.
74. Blackshire, S. A. McGann, **T.A. Miller**, R. Fogg, and M.J. Lanzone. 2016. Identifying behaviors of eagles using activity thresholds. Annual Meeting of the Raptor Research Foundation. Cape May, NJ, USA. Oral presentation.
73. Lanzone, M.J., A. McGann, **T.A. Miller**, R. Fogg, and S. Blackshire. 2016. Quantifying Animal Behavior Using High Frequency GPS Sampling and Accelerometry Data. Annual Meeting of the Raptor Research Foundation. Cape May, NJ, USA. Oral presentation.
72. Fallon, J., P. Redig, **T.A. Miller**, M.J. Lanzone, and T.E. Katzner. Guidelines for evaluation and treatment of lead poisoning of wild raptors. Annual Meeting of the Raptor Research Foundation. Cape May, NJ, USA. Oral presentation.
71. Brown, J. L, C. L. McIntyre, B. Bedrosian, D. Bell, M. Braham, A. Duerr, **T. Miller**, T. Booms, J. Cooper, R. Crandall, R. Domenech, A. Shreading, J. Dunk, T. Katzner, M. Lanzone, D. LaPlante, S. Lewis, R. Murphy, S. Slater, B. Smith, J. Smith, J. Watson, B. Woodbridge. 2016. Continental-scale movements of Golden Eagles in western North America. Oral presentation, annual conference of the Raptor Research Foundation, Cape May, NJ, USA.

**Scientific Presentations & Sessions Organized (continued)**

70. Duerr, A. E., M. Braham, **T. A. Miller**, J.T. Anderson, J. Cooper, & T.E. Katzner. 2016. Resting Site Selection by Golden Eagles (*Aquila chrysaetos*) Demonstrates Resource Use Driven by Flight Behavior. Annual Meeting of the Raptor Research Foundation. Cape May, NJ, USA. Oral presentation.
69. **Miller, T.A.**, M. Braham, A.E. Duerr, J. Cooper, M.J. Lanzone, & T.E. Katzner. 2015. In-flight winter habitat use and selection of Golden Eagles (*Aquila chrysaetos*) in eastern North America. Annual Meeting of the Raptor Research Foundation. Sacramento, CA. Oral presentation.
68. Duerr, A.E., **T.A. Miller**, K.L. Cornell-Duerr, M.J. Lanzone, A. Fesnock, & T.E. Katzner. 2015. Anthropogenic Influences to Landscape-Scale Distribution and Density of Wintering Raptors. Annual Meeting of the Raptor Research Foundation. Sacramento, CA. Oral presentation.
67. Rus, A., **T.A. Miller**, A.E. Duerr, M. Braham, J. Lemaitre, D. Brandes, M. Lanzone, and T.E. Katzner. The role of experience and multiple meteorological factors in the migratory performance of Golden Eagles (*Aquila chrysaetos*). Annual Meeting of the Raptor Research Foundation. Sacramento, CA. Oral presentation.
66. McIntyre, C.L., C. L. McIntyre, B. Bedrosian, D. Bell, M. Braham, Brown, J. L, A. Duerr, **T. Miller**, T. Booms, J. Cooper, R. Crandall, R. Domenech, A. Shreading, J. Dunk, K. Heyden, T. Katzner, M. Lanzone, D. LaPlante, S. Lewis, R. Murphy, S. Slater, B. Smith, J. Smith, J. Watson, B. Woodbridge. 2015. Describing landscape-level movement patterns of Golden Eagles in North America using ARGOS and GPS tracking data. Annual Meeting of the Raptor Research Foundation. Sacramento, CA. Oral presentation.
65. Katzner, T. D.M. Nelson, M.A. Braham, J.M. Doyle, N. Fernandez, A.E. Duerr, P. Bloom, M.C. Fitzpatrick, **T.A. Miller**, and A. DeWoody. 2015. Origins of Golden Eagles Killed at Altamont Pass Wind Resource Area: Continental-Scale Environmental Consequences of Local-Scale Renewable Energy Development. Annual Meeting of the Raptor Research Foundation. Sacramento, CA. Oral presentation.
64. **Session Moderator**. 2015. Annual Meeting of the Raptor Research Foundation. Sacramento, CA.
63. **Scientific Committee**. 2015. Annual Meeting of the Raptor Research Foundation. Sacramento, CA.
62. **Miller, T.A.**, A. Duerr, J. Tremblay, C. Maisonneuve, J. Lemaitre, M. Lanzone & T. Katzner. 2014. Modeling risk from wind power to breeding and migrating golden eagles (*Aquila chrysaetos*) near the Gulf of St. Lawrence, Quebec, Canada. Wind Wildlife Research Meeting X. American Wind Wildlife Institute. Denver, CO.
61. Katzner, T., A. Duerr, **T. Miller**, M. Braham, D. Nelson, P. Bloom, J. Doyle & A. DeWoody. 2014. Origins of eagles killed at the Altamont Pass Wind Resource Area. Wind Wildlife Research Meeting X. American Wind Wildlife Institute. Denver, CO.
60. Nagy, L., C. Farmer, M. Braham, A. Duerr, A. Fesnock, T. Katzner, L. LaPre, **T. Miller** & E. Mix. 2014. Golden eagle point counts and telemetry data: a project-specific comparison. Wind Wildlife Research Meeting X. American Wind Wildlife Institute. Denver, CO.
59. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2014. Competing resource selection modeling predicts risk for preventing and mitigating impacts to flying birds from industrial wind energy developments. Wind Energy & Raptors Workshop. Annual Meeting of the Raptor Research Foundation. Corpus Christi, TX. Invited oral presentation.
58. Braham, M., **T. Miller**, A. Duerr, M. Lanzone, A. Fesnock, L. LaPre, and T. Katzner. 2014. Correlates of variability in monthly home range of Mojave golden eagles (*Aquila chrysaetos*): Interpreting the scale of threat from renewable energy. Oral presentation. 2014 annual meeting, Raptor Research Foundation, Corpus Christi, TX September 24–28, 2014.
57. **Miller, T.A.**, J. Cooper, M.J. Lanzone, M. Braham, A.E. Duerr, & T.E. Katzner. 2014. Movements of juvenile bald eagles (*Haliaeetus leucocephalus*) near the Chesapeake Bay, Virginia: implications for bird aircraft strike hazard. Annual Meeting of the Raptor Research Foundation. Corpus Christi, TX. Oral presentation.

**Scientific Presentations & Sessions Organized (continued)**

56. Duerr, A.E., **T.A. Miller**, M. Braham & T. Katzner. 2014. Flight behavior of desert golden eagles. Desert Tortoise Council, 39th Annual Meeting & Symposium. Ontario, CA. Oral presentation.
55. Katzner, T.E., A. Duerr, **T. Miller** & M. Braham. 2014. Movements of eagles in the California desert. Desert Tortoise Council, 39th Annual Meeting & Symposium. Ontario, CA. Oral presentation.
54. Weldy, M. **T. Miller**, S.R. Wood, M. Strager & T. Katzner. 2014. Using public data and satellite imagery to construct natural resource management databases: wind turbine installations in Nevada and California. The Western Section of The Wildlife Society 2014 Annual Meeting. Reno, NV. Poster presentation.
53. Katzner, T., D. Nelson, M. Braham, J. Doyle, P. Bloom, **T. Miller**, A. Duerr & A. DeWoody. 2014. Origins of eagles killed at the Altamont Pass Wind Resource Area. The Western Section of The Wildlife Society 2014 Annual Meeting. Reno, NV. Oral presentation.
52. Braham, M., A. Duerr, **T. Miller**, M. Lanzone, D. Brandes & T. Katzner. 2014. Year-round home range of Mojave golden eagles: interpreting the scale of threat from renewable energy development. The Western Section of The Wildlife Society 2014 Annual Meeting. Reno, NV. Oral presentation.
51. **Miller T.A.** 2014. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Eastern Golden Eagle Working Group Meeting. Davis, WV.
50. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2013. Biotic and Abiotic Factors Influencing Directness of Migratory Flight Paths of Golden Eagles (*Aquila chrysaetos*) in Eastern North America are Scale Dependent. Worldwide Raptor Conference. Bariloche, Argentina. Oral presentation.
49. Lanzone, M.J., P. J. Turk, **T.A. Miller**, A. Duerr, D. Brandes, J. Cooper, J. Tremblay, C. Maisonneuve, and T. Katzner. 2013. Subsidized Lift in Migratory Flight of Golden Eagles (*Aquila chrysaetos*). Worldwide Raptor Conference. Bariloche, Argentina. Oral presentation.
48. Nelson, D.M., T. Katzner, **T.A. Miller**, A.E. Duerr, J. Cooper, M. Lanzone, M. Wheeler, and D. Brandes. 2013. Assessing the movements and diets of golden eagles in eastern North America using stable isotope and telemetry data. Ecological Society of America annual meeting- Minneapolis, MN.
47. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2013. Competing resource selection modeling predicts risk for preventing and mitigating impacts to flying birds from industrial wind energy developments. Pennsylvania Wildlife Society Annual Meeting. State College, PA.
46. Katzner, T., P. Turk, A. Duerr, **T. Miller**, M. Lanzone, J. Cooper, D. Brandes, C. Maisonneuve & J. Tremblay. 2013. Subsidized lift in migratory flight of golden eagles. Wilson Ornithological Society Annual Meeting, Williamsburg, VA.
45. Duerr, A., **T. Miller**, M. Lanzone, D. Brandes, J. Cooper, K. O'Malley, C. Maisonneuve, J. Tremblay & T. Katzner. 2013. Meteorological drivers of soaring migratory flight of golden eagles in eastern North America. Wilson Ornithological Society Annual Meeting, Williamsburg, VA.
44. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2013. Competing resource selection modeling predicts risk for preventing and mitigating impacts to flying birds from industrial wind energy developments. Virginia Wildlife Society Annual Meeting. Smith Mountain Lake, VA.
43. Katzner, T.E., A.E. Duerr, **T.A. Miller**, M.J. Lanzone, D. Brandes & P. Turk. 2012. Monitoring Seasonal Movements and Ranging Behavior Of Golden Eagles in the Context of Energy Development. California-Nevada Golden Eagle Working Group Symposium: distribution, abundance, and population status of golden eagles in California and Nevada, Sacramento, CA.
42. Katzner, T.E., A.E. Duerr, D. Brandes, **T.A. Miller**, M.J. Lanzone, C. Maisonneuve, J.A. Tremblay, R. Mulvihill, G. Merovich, K. O'Malley, J. Cooper. 2012. Meteorological and topographic drivers of migratory flight of golden eagles: implications for wind energy development. Oral Presentation. National Wind Coordinating Collaborative Research Meeting. Denver, CO, USA.



**Scientific Presentations & Sessions Organized (continued)**

41. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2012. Competing resource selection modeling predicts risk for preventing and mitigating impacts to flying birds from industrial wind energy developments. National Wind Coordinating Collaborative Research Meeting. Denver, CO, USA.
40. Duerr, Adam E., **T.A. Miller**, M.J. Lanzone, D. Brandes, J. Cooper, C. Maisonneuve, J. Tremblay, P. Turk, K. O'Malley, R.P. Brooks, T. Katzner. 2012. Golden eagles in eastern North America: Population status and habitat use relative to wind energy development. The Wildlife Society 19th Annual Conference. Portland OR. 17 October.
39. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2012. Age and season drive spatial use patterns and movements of a migratory avian predator. North American Ornithological Conference. Vancouver, BC.
38. **Miller, T.**, R. Brooks, T. Katzner, M. Lanzone, C. Maisonneuve, J. Tremblay, J. Cooper & K. O'Malley. 2012. Seasonal and intraspecific drivers of movement ecology of a migratory avian predator. North American Ornithological Conference, Vancouver, BC, 14-18 August 2012.
37. Duerr, A.E., **T. Miller**, M. Lanzone, D. Brandes, J. Cooper, K. O'Malley, C. Maisonneuve, J. Tremblay & T. Katzner. 2012. Weather drives migratory flight behavior of golden eagles: implications for understanding wind-wildlife interactions and climate change effects on migratory behavior. North American Ornithological Conference, Vancouver, BC, 14-18 August 2012.
36. Katzner, T., D. Brandes, **T. Miller**, M. Lanzone, C. Maisonneuve, J. Tremblay, B. Mulvihill & G. Merovich. 2012. Topography drives migratory flight altitude of golden eagles: implications for wind energy development. North American Ornithological Conference, Vancouver, BC, 14-18 August 2012.
35. Tremblay, J. C. Maisonneuve, T. Katzner, **T. Miller**, M. Lanzone, D. Brandes. 2012. A case study of the interaction between landscape configuration and habitat use at a wind facility by golden eagles (*Aquila chrysaetos*). North American Ornithological Conference, Vancouver, BC, 14-18 August 2012.
34. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2012. Age and season drive spatial use patterns and movements of a migratory avian predator. Meeting of the Eastern Golden Eagle Working Group. Rimouski, QC.
33. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2012. Age and season drive spatial use patterns and movements of a migratory avian predator. Meeting of the Northeast Association of Fish and Wildlife Agencies. Charleston, WV.
32. Duerr, A.E., **T.A. Miller**, M. Lanzone, D. Brandes, K. O'Malley, C. Maisonneuve, J. Tremblay & T. Katzner. 2012. Flight speed during migration: is using slope soaring faster than gliding between thermals? Northeastern Association of Fish and Wildlife Agencies Annual Meeting, Charleston, WV.
31. Katzner, T.E, D. Brandes, **T.A. Miller**, M. Lanzone, C. Maisonneuve, J. Tremblay, R. Mulvihill & G. Merovich. 2012. Topography drives migratory flight altitude of golden eagles: implications for on-shore wind energy development. Northeastern Association of Fish and Wildlife Agencies Annual Meeting, Charleston, WV.
30. Katzner, T., B.W. Smith, **T. A. Miller**, D. Brandes, J. Cooper, M. Lanzone, D. Brauning, C. Farmer, S. Harding, D. Kramar, C. Koppie, C. Maisonneuve, M. Martell, E.K. Mojica, C. Todd, J.A. Tremblay, M. Wheeler, D.F. Brinker, T.E. Chubbs, R. Gubler, K. O'Malley, S. Mehus, B. Porter, R.P. Brooks, B.D. Watts & K.L. Bildstein. 2012. Status, biology and conservation priorities for North America's eastern Golden Eagle (*Aquila chrysaetos*) population. Northeastern Association of Fish and Wildlife Agencies Annual Meeting, Charleston, WV.
29. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2011. Striking a balance: Modeling migration of golden eagles (*Aquila chrysaetos*) through wind energy developments of the Central Appalachian Mountains, USA. Raptor Research Foundation Annual Meeting. Duluth, MN.

**Scientific Presentations & Sessions Organized (continued)**

28. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2011. Characteristics of spring Golden Eagle (*Aquila chrysaetos*) migration through eastern North America as determined by telemetry. Raptor Research Foundation Annual Meeting. Duluth, MN.
27. Katzner, T., **T.A. Miller**, D. Brandes, J. Cooper, A. Duerr, M. Lanzone, C. Maisonneuve, J. Tremblay, R. Brooks, P. Turk & K. O'Malley. 2011. High frequency GPS telemetry to evaluate migration and habitat use of raptors relative to wind development. The Wildlife Society's 18th Annual Conference, Kona, Hawaii.
26. Katzner, T., B.W. Smith, **T. A. Miller**, D. Brandes, J. Cooper, M. Lanzone, D. Brauning, C. Farmer, S. Harding, D. Kramar, C. Koppie, C. Maisonneuve, M. Martell, E.K. Mojica, C. Todd, J.A. Tremblay, M. Wheeler, D.F. Brinker, T.E. Chubbs, R. Gubler, K. O'Malley, S. Mehus, B. Porter, R.P. Brooks, B.D. Watts & K.L. Bildstein. 2011. Status, biology and conservation priorities for North America's eastern Golden Eagle (*Aquila chrysaetos*) population. Raptor Research Foundation 2011 Annual Meeting, Duluth, MN.
25. Maisonneuve, C., J. Tremblay, **T. Miller**, T. Katzner, M. Lanzone, D. Brandes. 2011. Variation in home range sizes of golden eagles (*Aquila chrysaetos canadensis*) breeding in Quebec. Raptor Research Foundation 2011 Annual Meeting, Duluth, MN.
24. Brandes, D., C. Maisonneuve, J. Tremblay, **T. Miller**, T. Katzner, & M. Lanzone. 2011. Influence of high-latitude warming on fall migration timing of eastern golden eagles (*Aquila chrysaetos*). Raptor Research Foundation 2011. Annual Meeting, Duluth, MN.
23. Cooper, J., **T. Miller**, T. Katzner, M. Lanzone, D. Kramar, K. O'Malley, C. Maisonneuve, & J. Tremblay. 2011. Winter ranging behavior of golden eagles (*Aquila chrysaetos*) in the central Appalachian Mountains. Raptor Research Foundation 2011 Annual Meeting, Duluth, MN.
22. Duerr, A., **T. Miller**, M. Lanzone, J. Cooper, P. Turk & T. Katzner. 2011. High frequency GPS-GSM telemetry to measure migration speed: do golden eagles migrate faster when using orographic or thermal lift? Raptor Research Foundation 2011 Annual Meeting, Duluth, MN.
21. Lanzone, M., C. Halverson, **T. Miller**, P. Turk, D. Brandes & T. Katzner. 2011. High-frequency GPS-GSM telemetry provides new insights into raptor behavior and ecology. Raptor Research Foundation 2011 Annual Meeting, Duluth, MN.
20. Katzner, T., **T. Miller**, M. Lanzone, D. Brandes, R. Brooks, J. Cooper, C. Maisonneuve, J. Tremblay, K. O'Malley. 2010. Golden Eagles and Wind Energy in Eastern North America. U.S. Fish and Wildlife Service, Northeast Region Biologists Conference, 15-18 Feb, Baltimore, MD.
19. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2011. Striking a balance: Modeling migration of golden eagles (*Aquila chrysaetos*) through wind energy developments of the Central Appalachian Mountains, USA. Spatial Ecology and Conservation Conference. Birmingham, UK.
18. **Miller, T.A.**, R.P. Brooks, M.J. Lanzone, D. Brandes, C. Maisonneuve, J.A. Tremblay, J. Cooper, K. O'Malley, A.E. Duerr, T.E. Katzner. 2011. Characteristics of spring Golden Eagle (*Aquila chrysaetos*) migration. Meeting of the Eastern Golden Eagle Working Group. Hawk Mountain Sanctuary, Kempton, PA.
17. Katzner, T., **T. Miller**, M. Lanzone, D. Brandes, R. Brooks, J. Cooper, C. Maisonneuve, J. Tremblay, K. O'Malley. 2010. Interactions between migratory birds of prey and wind turbines: insights from novel high frequency gps-gsm telemetry. NWCC Wind Wildlife Research Meeting, Denver, CO.
16. Tremblay, J., C. Maisonneuve, T. Katzner, **T. Miller**, M. Lanzone, & D. Brandes. 2010. A case study of the interaction between landscape configuration and visits of a wind facility by Golden Eagles (*Aquila chrysaetos*). NWCC Wind Wildlife Research Meeting, Denver, CO.

**Scientific Presentations & Sessions Organized (continued)**

15. Maisonneuve, C., J. Tremblay, T. Katzner, **T. Miller**, M. Lanzone & D. Brandes. 2010. Influence of landscape configuration on wind facility frequentation by Golden eagles - A case study. Raptor Research Foundation Annual Meeting, Ft. Collins, CO.
14. Katzner, T., **T. Miller**, M. Lanzone, D. Brandes, & R. Brooks. 2010. Threats to migrating raptors from development of wind energy: Golden eagles as an umbrella species for conservation. Ecological Society of America, Annual Conference, Pittsburgh, PA.
13. Katzner, T., T. Anderson, **T. Miller** and M. Lanzone. 2010. High frequency gps-gsm telemetry for study of movement ecology of raptors. The 6th International Conference on Asian Raptors, ARRCN. Ulaanbaatar, Mongolia.
12. Anderson, T., C. Halverson, T. Katzner, M. Lanzone and **T.A. Miller**. 2010. High frequency GPS-GSM Telemetry data to delineate flight strategies of migratory birds: an example with golden eagles. Bird Migration and Global Change: Second Conference. Algeciras, Spain.
11. **Miller, T.A.**, T.E. Katzner (presenter), M.J. Lanzone, C. Maisonneuve, A.L. Mack, R.P. Brooks., 2009. Flight behavior of migrating golden eagles in the eastern USA: Insights from high frequency telemetry. Oral presentation. Third Annual Meeting of the Eagle Conservation Alliance. Oropesa, Toledo, Spain
10. **Miller, T.A.**, D. Brandes, M.J. Lanzone, D. Ombalski, C. Maisonneuve, R. P. Brooks, and T.E. Katzner. 2009. Modeling Migratory Flight Characteristics of Eastern North American Golden Eagles (*Aquila chrysaetos*) Using High Frequency Telemetry Data. Oral Presentation. Annual meeting of the Raptor Research Foundation. Pitlochry, Scotland, UK.
9. Brandes, D., T. Katzner, **T.A. Miller** and M. Lanzone. 2009. Simulation of golden eagle (*Aquila chrysaetos*) migration pathways through the central Appalachians. Raptor Research Foundation 2009 Annual Conference, Pitlochry, Scotland.
8. **Miller, T.A.**, M.J. Lanzone, C. Maisonneuve, A.L. Mack, R.P. Brooks, T.E. Katzner. 2009. Multi-scale application of a common hydrological measure to migratory flight paths obtained from satellite and high-frequency GSM telemetry. Oral Presentation. Annual meeting of the American Ornithological Union. Philadelphia, PA.
7. **Miller, T.A.**, M.J. Lanzone, R.P. Brooks, T.E. Katzner. 2009. Flight characteristics of Golden Eagles (*Aquila chrysaetos*) migrating through eastern North America as determined by GPS telemetry. Annual Meeting of the Wilson Ornithological Society and the Association of Field Ornithologists. Pittsburgh, PA.
6. **Miller, T.A.**, C. Maisonneuve and T.E. Katzner. 2008. Determining where, in eastern North America, there is the greatest potential for conflict between Golden Eagles and wind power development. Oral Presentation. Wind Wildlife Research Meeting VII. Milwaukee, WI.
5. Maisonneuve, C., **T.A. Miller**, M.J. Lanzone, and T.E. Katzner. 2008. Studies on threatened species of birds of prey and wind farms in eastern North America. Nature and Biodiversity Conservation Union. International Workshop on Birds of Prey and Wind Farms. Berlin, Germany.
4. **Miller, T.A.**, R. P. Brooks, D. Brandes, M. Lanzone, D. Ombalski, C. Maisonneuve, and T. Katzner. 2008. Roost site selection of Golden Eagles (*Aquila chrysaetos*) during migration through eastern North America. Poster. Annual meeting of the American Ornithological Union and the Copper Ornithological Society. Portland, OR.
3. Brauning, D. W., R.S. Mulvihill, **T. A. Miller**, D.R. Diefenbach, and G.L. Farnsworth. 2008. Adding Value to large scale bird atlases: Abundance estimation and bird habitat associations. Oral Presentation. Annual meeting of the American Ornithological Union and the Copper Ornithological Society. Portland, OR.
2. **Miller, T.A.**, D. Brandes, M. Lanzone, R. Mulvihill, R. P. Brooks, and T. Katzner. 2007. Flight characteristics of golden eagles (*Aquila chrysaetos*) migrating through eastern North America as determined by GPS telemetry. Oral Presentation. Annual meeting of the Raptor Research Foundation. Allentown, PA.
1. **Miller, T.A.**, W. Meshaka, and A. Mack. 2008. Long-term demography of the Eastern Box Turtle: What can 47 years of data from a protected site in southwest Pennsylvania tell us? Box Turtle Conservation Workshop. Laurel, MD.

**Outreach – Public Presentations**

36. **Miller, T.A.** 2018. Golden Eagles: Ghosts of the eastern forests. Presentation at Annual Fall Festival. New Jersey Audubon, Cape May Bird Observatory. Cape May, NJ.
35. **Miller, T.A.** 2018. Golden Eagles: Ghosts of the eastern forests. Presentation at The Biggest Week. Black Swamp Bird Observatory. Maumee Bay State Park, Oregon, OH.
34. **Miller, T.A.** 2018. Golden Eagles: Ghosts of the eastern forests. Presentation at West Cape May Environmental Commission Special Programs. West Cape May, NJ.
33. **Miller, T.A.** 2018. Golden Eagles: Ghosts of the eastern forests. Presentation at West Cape May Environmental Commission Movie Night. West Cape May, NJ.
32. **Miller, T.A.** 2018. Golden Eagles: Ghosts of the eastern forests. Presentation at Cumberland County 17<sup>th</sup> Annual Winter Eagle Festival. Mauricetown, NJ.
31. **Miller, T.A.** 2015. Golden Eagles (*Aquila chrysaetos*) in eastern North America: Exploring movement & potential risk from wind power development. Presentation to Lewistown, PA residents. Lewistown, PA.
30. **Miller, T.A.** 2015. Golden Eagles in winter. Invited presentation. Pennsylvania Society for Ornithology, Annual Meeting, West Chester, PA.
29. **Miller, T.A.** 2014. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Juniata Valley Audubon Society. Annual Banquet. Keynote Speaker. Altoona, PA.
28. **Miller, T.A.** and M.J. Lanzone. 2014. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Lancaster Bird Club. Invited Speaker. Lancaster, PA.
27. **Miller, T.A.** 2014. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Atlantic Flyway Council Migratory Bird Meeting. 2014. Invited Speaker. Hershey, PA.
26. **Miller, T.A.** 2014. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Shaver's Creek Environmental Center. 2014. Invited Speaker. Barre, PA.
25. **Miller, T.A.** 2013. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Brooks Bird Club. Keynote speaker at Annual Outing. Thornwood, WV.
24. **Miller, T.A.** 2013. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Carlisle High School. Presentation to AP physical science class. Carlisle, PA.
23. **Miller, T.A.** and M.J. Lanzone. 2013. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Appalachian Audubon. Invited Speaker at Monthly Meeting. Harrisburg, PA.
22. **Miller, T.A.** 2013. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Foxburg Birding Festival. 2013. Keynote Speaker. Foxburg, PA.
21. **Miller, T.A.** 2013. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Pennsylvania Society for Ornithology Annual Meeting. Invited speaker. Wilkes Barre, PA.
20. **Miller, T.A.** and M.J. Lanzone. 2012. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Somerset County Conservancy. Keynote Speaker at Annual Banquet. Somerset, PA.
19. **Miller, T.A.** 2012. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. West Virginia Highland Conservancy. Keynote Speaker at Annual Meeting. Canaan Valley, WV.

**Outreach – Public Presentations (continued)**

18. **Miller, T.A.** and M.J. Lanzone. 2012. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Hawk Migration Association of North America. 2012. Invited Speaker at Annual Meeting. Greenwich, CT.
17. **Miller, T.A.** 2012. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Mayhem in the Mountains. Invited Speaker. Blackwater Falls State Park, Davis, WV.
16. **Miller, T.A.** 2012. Golden Eagles (*Aquila chrysaetos*) in Eastern North America: Exploring movement & potential risk from wind power development. Canaan Valley Birding Festival. Invited Speaker. Canaan Valley Resort, Davis, WV.
15. **Miller, T.A.**, 2012. Striking a balance: Modeling migration of golden eagles (*Aquila chrysaetos*) through wind energy developments of the Central Appalachian Mountains, USA. Penn State Geography Coffee Hour. Invited speaker. University Park, PA.
14. **Miller, T.A.** 2011. Eastern Golden Eagle Project. Pennsylvania Society for Ornithology. Annual Meeting. Keynote Speaker. Bedford, PA.
13. **Miller, T.A.**, 2011. Striking a balance: Modeling migration of golden eagles (*Aquila chrysaetos*) through wind energy developments of the Central Appalachian Mountains, USA. Virginia Society for Ornithology. Annual Meeting. Keynote Speaker. Monterey, VA.
12. **Miller, T.A.**, 2011. Striking a balance: Modeling migration of golden eagles (*Aquila chrysaetos*) through wind energy developments of the Central Appalachian Mountains, USA. SOAR Annual Meeting. Keynote Speaker. Schellsburg, PA.
11. **Miller, T.A.** 2011. Tracking Golden Eagles (*Aquila chrysaetos*) in eastern North America. Woodbridge Preschool. Invited speaker. Rector, PA.
10. **Miller, T.A.** and M.J. Lanzone. 2010. Golden eagles in West Virginia. West Virginia DNR. Invited presentation. Elkins, WV.
9. **Miller, T.A.** 2010. Tracking Golden Eagles (*Aquila chrysaetos*) in eastern North America. St. Vincent College, Evolution and Ecology Lecture Series. Invited Speaker. Latrobe, PA.
8. **Miller, T.A.** 2010. Tracking Golden Eagles (*Aquila chrysaetos*) in eastern North America. Bibee Nature Club. Invited Speaker. Pipestem, WV.
7. **Miller, T.A.** 2010. GIS at Powdermill Nature Reserve. Carnegie Museum of Natural History. Brown Bag Lunch Series. Invited Speaker. Pittsburgh, PA.
6. **Miller, T.A.** and M.J. Lanzone. 2009. Tracking Golden Eagles (*Aquila chrysaetos*) in eastern North America. Carnegie Museum of Natural History, Powdermill Nature Reserve Sunday Lecture Series. 2010. Invited Speaker. Rector, PA.
5. **Miller, T.A.** 2009. Modeling migratory flight characteristics of Golden Eagles (*Aquila chrysaetos*) to avert potential conflicts with wind power development in the Appalachian flyway. Charles A. and Anne Morrow Lindbergh Foundation. Grant Awardee Speaker. Oshkosh, WI.
4. **Miller, T.A.** 2009. Tracking Golden Eagles (*Aquila chrysaetos*) in eastern North America. Delaware Valley Eagle Festival. Invited speaker. Narrowsburg, NY.
3. **Miller, T.A.** 2008. Tracking Golden Eagles (*Aquila chrysaetos*) in eastern North America. Mellon Elementary School Career Day. Speaker. Ligonier, PA.
2. **Miller, T.A.** 2008. Tracking Golden Eagles (*Aquila chrysaetos*) in eastern North America. Delaware Valley Eagle Festival. Invited speaker. Narrowsburg, NY.
1. **Miller, T.A.**, 2008. GIS at Powdermill Nature Reserve. Carnegie Museum of Natural History, Powdermill Nature Reserve Sunday Lecture Series. Invited Speaker. Rector, PA.

**Grants and Research Funding**

- American Wind-Wildlife Institute.** 2018. High-resolution movements of Golden Eagles in a wind facility in Wyoming. **\$30,000.**
- USGS OAG Sacramento.** 2018. Animal movement studies for wildlife management. Funding Modification. PI. **\$62,000.**
- American Eagle Foundation.** 2019. Movements of young Bald Eagles in the Midwest: Implications for wind energy development. PI. Co-Pi with Mike Lanzone and Todd Katzner. **\$19,876.**
- Apple Valley, CA.** 2018. Analysis of Golden Eagle home ranges in support of habitat conservation and planning for Apple Valley, CA. Co-PI with M.A. Braham and A.E. Duerr. **\$8,007.**
- Joint-Base Langley-Eustis.** 2018. Understanding waterbird use of airfields at JBLE-Langley. Co-PI with M.A. Braham and A.E. Duerr. **\$4,975.**
- Mid-American Energy.** 2018. Movements of young Bald Eagles in the Midwest: Implications for wind energy development. Co-PI with Sara Schmuecker. **\$75,000.**
- American Eagle Foundation.** 2017. Movements of young Bald Eagles in the Midwest: Implications for wind energy development. PI. Co-Pi with Mike Lanzone and Todd Katzner. **\$19,350.**
- USGS OAG Sacramento.** 2017. Animal movement studies for wildlife management. PI. **\$57,000.**
- National Fish & Wildlife Foundation.** 2017. Assessing risk to Golden Eagles from wind turbine development: an adaptive management approach to building, validating, refining, and implementing risk models. Co-Pi with Todd Katzner, Adam Duerr, Maitreyi Sur, Sharon Poessel, M. Braham. **\$781,958.**  
Sub-award: **\$222,499.63.** 2018. PI.
- Arconic Foundation.** 2017. Understanding movement ecology of juvenile Bald Eagles in the Upper Midwest to aid management of a recovering population. PI. **\$20,000.**
- ITC.** 2017b. Understanding movement ecology of Bald Eagles in the Upper Midwest to aid management of a recovering population. Co-Pi with Sara Schmuecker, Mike Lanzone and Todd Katzner. **\$15,000**
- American Eagle Foundation.** 2017. Winter movements of Upper Midwest Bald Eagles into upland areas: Consequences for wind energy development. PI. Co-Pi with Mike Lanzone and Todd Katzner. **\$19,215.**
- ITC.** 2017a. Understanding movement ecology of Bald Eagles in the Upper Midwest to aid management of a recovering population. Co-Pi with Sara Schmuecker, Mike Lanzone and Todd Katzner. **\$15,000**
- ComEd.** 2016. Understanding movement ecology of Bald Eagles in the Upper Midwest to aid management of a recovering population. Co-Pi with Drew Becker, Sara Schmuecker, Mike Lanzone and Todd Katzner. **\$15,000.**
- Avian Powerline Interaction Committee.** 2016. Understanding movement ecology of Bald Eagles in the Upper Midwest to aid management of a recovering population. Co-Pi with Drew Becker, Sara Schmuecker, Mike Lanzone and Todd Katzner. **\$25,000.**
- ITC.** 2016. Understanding movement ecology of Bald Eagles in the Upper Midwest to aid management of a recovering population. Co-Pi with Drew Becker, Sara Schmuecker, Mike Lanzone and Todd Katzner. **\$15,000.**
- American Eagle Foundation.** 2016. Local and Migratory Movements of Upper Midwest Wintering Bald Eagles. PI. Co-Pi with Sara Schmuecker, Mike Lanzone and Todd Katzner. **\$17,045.**
- Mid-American Energy.** 2015. Understanding movement ecology of Bald Eagles in the Upper Midwest to aid management of a recovering population. Co-Pi Drew Becker, Sara Schmuecker, and Mike Lanzone. **\$50,000.**
- ALCOA Foundation.** 2015. Understanding movement ecology of Bald Eagles in the Upper Midwest to aid management of a recovering population. Co-Pi with Jim Anderson, Drew Becker, Sara Schmuecker, Mike Lanzone and Todd Katzner. **\$25,000.**
- American Wind-Wildlife Institute.** 2015. Understanding movement ecology of Bald Eagles in the Upper Midwest to aid management of a recovering population. Co-Pi with Drew Becker, Sara Schmuecker, Mike Lanzone and Todd Katzner. **\$25,000.**

**Grants and Research Funding (continued)**

- California Energy Commission.** 2015. Learning from real-world experience to understand renewable energy impacts to wildlife. Co-PI with Todd Katzner, David Nelson, Scott Loss, James Diffendorfer, Adam Duerr, Taber Alison, Julie Yee. **\$1,000,000.**
- American Eagle Foundation.** 2014. Local and Migratory Movements of Upper Midwest Wintering Bald Eagles. PI. 2014. **\$19,900.**
- US DoD – Office of Naval Research.** 2014. Bald eagle conservation and management at Marine Corps Base Quantico. **\$102,066.65.** Co-PI with Todd Katzner, Jim Anderson, Adam Duerr.
- US DoD.** 2014. Bald eagle conservation and management at Fort A.P. Hill. **\$142,352.** Co-PI with Todd Katzner and Adam Duerr.
- National Fish and Wildlife Foundation.** 2014. California condor flight response in a variable meteorological and topographic environment. Co-PI with Jonathan Hall, Tricia Miller, Adam Duerr, David Brandes, Melissa Braham and Michael Lanzone. **\$150,000.**
- California Department of Fish and Wildlife.** 2014. Movement ecology of California Condors within the DRECP area. **\$83,540.** Co-PI with Adam Duerr, Jonathan Hall, Melissa Braham, Philip Turk & Todd Katzner.
- American Eagle Foundation.** 2013. Local and Migratory Movements of Upper Midwest Wintering Bald Eagles. PI. 2013. **\$16,250.**
- US Bureau of Land Management – California State Office.** 2013. Golden eagle home range, habitat use, demography and renewable energy development in the California desert (Grant Modification). Co-PI with David Brandes, Adam Duerr, Philip Turk, Tricia Miller and Michael Lanzone. **\$34,000.**
- Virginia Department of Game and Inland Fisheries.** Distribution, differentiation and hybridization of king and clapper rails in eastern Virginia. Co-PI with Trish Miller, Adam Duerr, Jim Anderson, Amy Welsh, & Michael Lanzone. **\$419,368.**
- Virginia Department of Game and Inland Fisheries.** 2013. Assessing Lead Levels in Avian Scavengers in Virginia. Co-PI. **\$266,480.**
- Virginia Department of Game and Inland Fisheries.** 2013. Demography, Population Size, and Habitat use of Eastern Golden Eagles in Virginia. Co-PI. **\$256,046.**
- Virginia Department of Game and Inland Fisheries.** 2012. Bald eagle conservation and management Virginia. Co-PI. **\$295,000.**
- California Department of Fish and Game.** California DFG Golden Eagle Research. Co-PI. 2012. **\$252,500.**
- US Bureau of Land Management – California State Office.** 2012. Golden eagle demography: genetic approaches to population biology in the face of renewable energy development in the California desert. Co-PI with Andrew DeWoody, Jacqueline Doyle, Phil Turk, Adam Duerr, Tricia Miller, Michael Lanzone and David Brandes. **\$126,000.** (\$26,907 through WVU, \$99,093 through Purdue University).
- US Bureau of Land Management – California State Office.** 2012. Golden eagle home range, habitat use, demography and renewable energy development in the California desert (*Grant Modification*). Co-PI with David Brandes, Adam Duerr, Philip Turk, Tricia Miller and Michael Lanzone. **\$54,390.**
- US Bureau of Land Management.** 2012. Golden eagle home range, habitat use, demography and renewable energy development in the California Desert. (*Grant modification*). Co-PI. **\$54,390.**
- RES America.** 2012. Assessing Granite Wind for RES America. Co-PI. **\$41,440.**
- US Bureau of Land Management.** 2012. Golden eagle demography: Genetic approaches to population biology in the face of renewable energy developments in the California desert. Co-PI. **\$126,000.**
- Quebec Department of Wildlife and Natural Resources.** 2012. Trapping and telemetry of golden eagles during winter in Pennsylvania. Co-PI. **\$10,000.**
- US Bureau of Land Management.** 2011. Golden eagle home range, habitat use, demography and renewable energy development in the California desert. Co-PI. **\$319,835.**
- Virginia Department of Game and Inland Fisheries.** 2010. Winter ecology and conservation of golden eagles in Virginia. Co-PI. **\$104,300.**

**Grants and Research Funding (continued)**

- Transportation Research Board of the National Academies.** 2011. Pilot Test the Ecological Approaches to Environmental Protection Developed in Capacity Research Projects C06A and C06B. Co-PI with Jim Anderson, Walter Veselka, Michael Strager, Hodjat Ghadimi, Lian-Shin Lin, J. Todd Petty, Daniel Welsch, Todd Miller, Norse Angus, & Laura Conley-Reinhart 2011. **\$360,628.**
- US Department of Energy Grant.** 2010. Developing high-resolution spatial data of migration corridors for avian species of concern in regions of high potential wind development. Co-PI. **\$193,000.**
- EESI Environmental Scholars Fellowship.** Tuition and stipend support for 2009-2010 academic year. **\$29,677.**
- Lindbergh Foundation Grant.** 2009. "Migratory flight characteristics of Golden Eagles in eastern North America: Modeling the potential conflicts with wind power development in the Appalachian flyway. PI. **\$10,580.**
- Snee-Reinhardt Foundation.** 2009. Support for 2009 Operating Costs of Powdermill Nature Reserve's GIS Lab. **\$12,500.**
- MIGRATE Avian Movement Course.** 2008. An International Course on Avian Movements funded by the National Science Foundation for the Migration Interest Group: Research Applied Toward Education. **\$1500.**
- Pennsylvania State Wildlife Grant Program.** 2008. Assessing conservation needs of eastern golden eagles in Pennsylvania. Co-PI. **\$70,000.**
- Allegheny Plateau Audubon Society.** 2008. GPS telemetry of golden eagles in Pennsylvania. Co-PI. **\$5,000.**
- Pennsylvania State Wildlife Grant Program.** 2007. Assessing conservation needs of eastern golden eagles in Pennsylvania. Co-PI. **\$25,000.**
- Quebec Department of Wildlife and Natural Resources.** 2008. Telemetry, home range, migration and management of birds of prey in the context of wind energy development. Co-PI. **\$23,250**
- Wild Resource Conservation Program.** 2008. Habitat Associations of Pennsylvania's Bird Species of Greatest Conservation Concern: An Analysis of Spatially Explicit Breeding Bird Data Collected During the 2nd Pennsylvania Breeding Bird Atlas (2004-2008). Co-PI. **\$30,787**
- Richard King Mellon Foundation Grant.** 2006. Powdermill Sustainable Facilities Development Project (\$3,000,000) sub-grant in support of the GIS Program at Powdermill Nature Reserve. PI. **\$250,000.**
- Wild Resource Conservation Program.** 2005. Habitat modeling for the 2<sup>nd</sup> Pennsylvania Breeding Bird Atlas. PI. **\$28,717.**
- Graduate Research Support, The Pennsylvania State University.** 2005. Habitat modeling for the 2<sup>nd</sup> Pennsylvania Breeding Bird Atlas. **\$1,500**