

ROBERT L. SCHOOLEY

Department of Natural Resources and Environmental Sciences
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Professional Positions

- 2021-present Professor and Head, Department of Natural Resources and Environmental Sciences, University of Illinois
- 2020-2021 Professor and Interim Head, Department of Natural Resources and Environmental Sciences, University of Illinois
- 2019-2020 Professor and Associate Head, Department of Natural Resources and Environmental Sciences, University of Illinois
- 2012-2019 Associate Professor, Department of Natural Resources and Environmental Sciences, University of Illinois
- 2005-2012 Assistant Professor, Department of Natural Resources and Environmental Sciences, University of Illinois
- 2006-present Affiliate Faculty, Program in Ecology, Evolution, and Conservation Biology, University of Illinois
- 2006-present Affiliate Faculty, Illinois Natural History Survey, Prairie Research Institute, University of Illinois
- 2002-2005 Postdoctoral Associate, Department of Wildlife Ecology and Conservation, University of Florida
- 1991-1995 Research Coordinator, Department of Biology, Colorado State University

Education

- Ph.D. Ecology, Colorado State University (2002)
- M.S. Wildlife Management, University of Maine (1990)
- B.S. Wildlife Science, Pennsylvania State University, High Distinction (1986)

Professional Development and Leadership Training

- 2021-2022. LEAD21. Leadership Development for the 21st Century: Linking Research, Academics, and Extension. Twelve-month process including three week-long sessions focused on developing leaders in land grant institutions. Focal areas include Communicating Effectively, Managing Conflict, Leading Change, Fostering Collaboration, and Valuing Diversity.
- 2020-2021. Academic Leadership Series, Office of the Provost, University of Illinois. Designed for new Executive Officers to share best practices and discuss Leadership, Financial and Strategic Planning, and Faculty Development.
- 2020. Senior Leadership Retreat, August 17-21, 2020, Office of the Provost, University of Illinois. Key topics included On Being a Campus Leader; Stewarding Resources; Diversity, Equity, and Inclusion; Supporting Students, Faculty, and Staff; and Dealing with Crisis.

Teaching Experience and Honors

Courses Taught

- 2006-present Department of Natural Resources and Environmental Sciences, University of Illinois
Wildlife Population Ecology, NRES 407
Mammalogy, IB 462/NRES 442
Vertebrate Natural History, NRES 368
Wildlife Field Techniques, NRES 285-WFT
Wildlife Conservation and Communities—Botswana, NRES 285-WCB
Behavioral Landscape Ecology, NRES 499-BLE (Graduate)
Sources, Sinks, and Sustainability, NRES 512-SSS (Graduate)
Writing Science, NRES 512-WS (Graduate)
- 1995-2002 Graduate Teaching Assistant, Department of Biology, Colorado State University
Mammalogy
Biology of Organisms; Animal Biology Laboratory
Population and Organismal Ecology (Graduate)
Community and Ecosystem Ecology (Graduate)
- 1987-1989 Graduate Teaching Assistant, Department of Wildlife Ecology, University of Maine
Wildlife-Habitat Relationships
Wildlife Population Management
Wildlife Nutrition (Graduate)

Teaching Awards and Recognition

- 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019.
Recognized as Excellent Teacher, University of Illinois.
2014. NACTA Teacher Fellow Award, North American Colleges and Teachers of Agriculture.
2013. College Faculty Award for Excellence in Teaching; College of Agricultural, Consumer, and Environmental Sciences; University of Illinois.
2002. Best Graduate Teaching Assistant Award, Department of Biology, Colorado State University.

Presentations at Teaching Conferences

- Hansen, A. C., A. C. Dilger, N. J. Engeseth, B. Fiese, K. K. Freeman Bost, D. J. Miller, R. L. Schooley, C. D. Suski, and L. Kramer. 2016. Co-curricular high impact learning practices: What are they and how do we document them? Annual meeting of North American Colleges and Teachers of Agriculture, University of Hawaii, Manoa.
- Schooley, R. L. 2014. Building understanding of quantitative approaches for undergraduates in natural resources. Annual meeting of North American Colleges and Teachers of Agriculture, Montana State University, Bozeman.

Teaching Grants

- Schooley, R. L. 2016. Arlys Conrad International Teaching Enhancement Grant. College of Agricultural, Consumer, and Environmental Sciences; University of Illinois. \$9,249. "Wildlife Conservation and Communities in Botswana".

Mentoring of Graduate Students and Postdoctoral Associates

Current Faculty Advisor

Nathan Alexander, PhD, Natural Resources and Environmental Sciences (2017-present).
Casey Wagon, PhD, Natural Resources and Environmental Sciences (2017-present).
Alyson Cervantes, MS, Natural Resources and Environmental Sciences (2018-present).
Kieran Andreoni, MS, Natural Resources and Environmental Sciences (2021-present).

Past Faculty Advisor

Bradley Cosentino. Postdoc, Natural Resources and Environmental Sciences (2011-2012).
Jennifer Duggan. PhD, Animal Biology (2007-2011; co-advised by Ed Heske).
Adam Ahlers. PhD, Natural Resources and Environmental Sciences (2010-2015; co-advised by Ed Heske).
Bradley Cosentino. PhD, Ecology, Evolution, & Conservation Biology (2007-2011; co-advised by Chris Phillips).
Elizabeth Lehrer (née Watson). MS, Natural Resources and Environmental Sciences (2006-2009).
Lisa Cotner (née Bucci). MS, Natural Resources and Environmental Sciences (2007-2009).
Adam Ahlers. MS, Natural Resources and Environmental Sciences (2007-2010; co-advised by Ed Heske).
Matthew Mulligan. MS, Natural Resources and Environmental Sciences (2010-2012).
Christi Wortz. MS (online), Natural Resources and Environmental Sciences (2011-2012).
Stacy Beyer. MS, Natural Resources and Environmental Sciences (2011-2014).
Patrick Wolff. MS, Natural Resources and Environmental Sciences (2011-2014; co-advised by Ed Heske).
Torrey Rodgers. MS, Animal Biology (2011-2014; co-advised by Ed Heske).
W. Brian Berry. MS, Natural Resources and Environmental Sciences (2013-2016).
Julia Nawrocki. MS, Natural Resources and Environmental Sciences (2014-2017).

Research Publications

Peer-reviewed Papers

73. Schooley, R. L., B. T. Bestelmeyer, C. J. Wagon, and J. M. Coffman. 2021. Shrub encroachment, landscape restoration, and intraguild predation. *Journal of Arid Environments* 193:104588.
72. Cardenas, P. A., E. Christensen, M. Ernest, D. Lightfoot, R. L. Schooley, P. Stapp, and J. A. Rudgers. 2021. Declines in rodent abundance and diversity track regional climate variability in North American drylands. *Global Change Biology*, In press.
71. Iwaniec, D. C. et al. 2021. Connectivity: insights from the U.S. Long Term Ecological Research Network. *Ecosphere*, In press.
70. Andreoni, K. J., C. J. Wagon, B. T. Bestelmeyer, and R. L. Schooley. 2021. Exotic oryx interact with shrub encroachment in the Chihuahuan Desert. *Journal of Arid Environments* 184:104302.
69. Wagon, C. J., R. L. Schooley, and B. J. Cosentino. 2020. Shrub encroachment creates a dynamic landscape of fear for desert lagomorphs via multiple pathways. *Ecosphere* 11(9):e03240. (Invited paper for Special Feature on Dynamic Deserts).
68. Cosentino, B. J., R. L. Schooley, B. T. Bestelmeyer, H. Campos, and L. M. Burkett. 2019. Does habitat disturbance promote geographical parthenogenesis in whiptail lizards? *Evolutionary Ecology* 33:839-853.
67. Bestelmeyer, B. T., L. M. Burkett, L. Lister, J. R. Brown, and R. L. Schooley. 2019. Collaborative approaches to strengthen the role of science in rangeland conservation. *Rangelands* 41:218-226.
66. Nawrocki, J. A., R. L. Schooley, and M. P. Ward. 2019. When good animals love restored habitat in bad neighborhoods: ecological traps for eastern cottontails in agricultural landscapes. *Biodiversity and Conservation* 28:953-973.
65. Schooley, R. L., B. T. Bestelmeyer, and A. Campanella. 2018. Shrub encroachment, productivity pulses, and core-transient dynamics of Chihuahuan Desert rodents. *Ecosphere* 9(7) e02330 (Invited paper for Special Feature on Dynamic Deserts).

64. Bestelmeyer, B. T., D. P. C. Peters, S. R. Archer, D. M. Browning, G. S. Okin, R. L. Schooley, and N. P. Webb. 2018. The grassland-shrubland regime shift in the southwestern United States: misconceptions and their implications for management. *BioScience* 68:678-690 (Invited paper for Special Feature on Integrating Complex Landscapes).
63. Dornelas M., L. H. Antão, F. Moyes, A. E. Bates, A. E. Magurran, and BioTIME consortium (200+ authors including R. L. Schooley). 2018. BioTIME: a database of biodiversity time series for the Anthropocene. *Global Ecology and Biogeography* 27:760-768.
62. Williams, R. E., B. A. Roundy, A. Hulet, R. F. Miller, R. J. Tausch, J. C. Chambers, J. Matthews, R. Schooley, and D. Eggert. 2017. Pretreatment tree dominance and conifer removal treatments affect plant succession in sagebrush communities. *Rangeland Ecology and Management* 70:759-773.
61. Berry, W. B., R. L. Schooley, and M. P. Ward. 2017. Landscape context affects use of restored grasslands by mammals in a dynamic agroecosystem. *American Midland Naturalist* 177:165-182.
60. DaVanon, K. A., L. K. Howard, K. E. Mabry, R. L. Schooley, and B. T. Bestelmeyer. 2016. Effects of exurban development on trophic interactions in a desert landscape. *Landscape Ecology* 31:2343-2354.
59. Lehrer, E. W., R. L. Schooley, J. M. Nevis, R. J. Kilgour, P. J. Wolff, and S. B. Magle. 2016. Happily ever after? Fates of translocated nuisance woodchucks in the Chicago metropolitan area. *Urban Ecosystems* 19:1389-1403.
58. Ahlers, A. A., E. J. Heske, and R. L. Schooley. 2016. Prey distribution, potential landscape supplementation, and urbanization affect occupancy dynamics of American mink in streams. *Landscape Ecology* 31:1601-1613.
57. Wolff, P. J., C. A. Taylor, E. J. Heske, and R. L. Schooley. 2016. Predation risk for crayfish differs between drought and nondrought conditions. *Freshwater Science* 35:91-102.
56. Cosentino, B. J., R. L. Schooley, B. T. Bestelmeyer, A. J. McCarthy, and K. Sierzega. 2015. Rapid genetic restoration of a keystone species exhibiting delayed demographic response. *Molecular Ecology* 24:6120-6133.
55. Rodgers, T. W., J. Giacalone, E. J. Heske, N. C. Pawlikowski, and R. L. Schooley. 2015. Communal latrines act as potentially important communication centers in ocelots *Leopardus pardalis*. *Mammalian Biology* 80:380-384.
54. Ahlers, A. A., L. A. Cotner, P. J. Wolff, M. A. Mitchell, E. J. Heske, and R. L. Schooley. 2015. Summer precipitation predicts the spatial distributions of semiaquatic mammals. *PLoS ONE* 10(8): e0135036. doi:10.1371/journal.pone.0135036
53. Beyer, S. E., C. A. Phillips, and R. L. Schooley. 2015. Canopy cover and drought influence the landscape epidemiology of an amphibian chytrid fungus. *Ecosphere* 6(5):art78. <http://dx.doi.org/10.1890/ES14-00263.1>.
52. Ahlers, A. A., M. A. Mitchell, J. P. Dubey, R. L. Schooley, and E. J. Heske. 2015. Risk factors for *Toxoplasma gondii* exposure in semiaquatic mammals in a freshwater ecosystem. *Journal of Wildlife Diseases* 51:488-492.
51. Rodgers, T. W., J. Giacalone, E. J. Heske, J. E. Janečka, P. A. Jansen, C. A. Phillips, and R. L. Schooley. 2015. Socio-spatial organization and kin structure in ocelots from integration of camera trapping and noninvasive genetics. *Journal of Mammalogy* 96:120-128.
50. Wolff, P. J., C. A. Taylor, E. J. Heske, and R. L. Schooley. 2015. Habitat selection by American mink during summer is related to hotspots of crayfish prey. *Wildlife Biology* 21:9-17.
49. Rodgers, T. W., J. Giacalone, E. J. Heske, J. E. Janečka, C. A. Phillips, and R. L. Schooley. 2014. Comparison of noninvasive genetics and camera trapping for estimating population density of ocelots (*Leopardus pardalis*) on Barro Colorado Island, Panama. *Tropical Conservation Science* 74:690-705.
48. McAllister, M. M., R. L. Schooley, B. T. Bestelmeyer, J. M. Coffman, and B. J. Cosentino. 2014. Effects of grassland restoration efforts on mound-building ants in the Chihuahuan Desert. *Journal of Arid Environments* 111:79-83.
47. Cosentino, B. J., R. L. Schooley, B. T. Bestelmeyer, J. F. Kelly, and J. M. Coffman. 2014. Constraints and time lags for recovery of a keystone species (*Dipodomys spectabilis*) after landscape restoration. *Landscape Ecology* 29:665-675.

46. Coffman, J. M., B. T. Bestelmeyer, J. F. Kelly, T. F. Wright, and R. L. Schooley. 2014. Restoration practices have positive effects on breeding bird species of concern in the Chihuahuan Desert. *Restoration Ecology* 22:336-344.
45. Mulligan, M. P., Schooley R. L., and M. P. Ward. 2013. Effects of connectivity and regional dynamics on restoration of small mammal communities in Midwestern grasslands. *Restoration Ecology* 21:678-685.
44. Fredebaugh-Siller, S. L., C. D. Suski, Z. C. Zuckerman, and R. L. Schooley. 2013. Ecological correlates of stress for a habitat generalist in a biofuels landscape. *Canadian Journal of Zoology* 91:853-858.
43. Cosentino B. J., R. L. Schooley, B. T. Bestelmeyer, and J. M. Coffman. 2013. Response of lizard community structure to desert grassland restoration mediated by a keystone rodent. *Biodiversity and Conservation* 22:921-935.
42. Duggan, J. M., E. J. Heske, and R. L. Schooley. 2012. Gap-crossing decisions by adult Franklin's ground squirrels in agricultural landscapes. *Journal of Mammalogy* 93:1231-1239.
41. Cosentino, B. J., C. A. Phillips, R. L. Schooley, W. H. Lowe, and M. R. Douglas. 2012. Linking extinction-colonization dynamics to genetic structure in a salamander metapopulation. *Proceedings of the Royal Society B* 279:1575-1582.
40. Lehrer, E. W., R. L. Schooley, and J. K. Whittington. 2012. Survival and anti-predator behavior of woodchucks along an urban-agricultural gradient. *Canadian Journal of Zoology* 90:12-21.
39. Schooley, R. L., L. A. Cotner, A. A. Ahlers, E. J. Heske, and J. M. Levensgood. 2012. Monitoring site occupancy for American mink in its native range. *Journal of Wildlife Management* 76:824-831.
38. Duggan, J. M., R. L. Schooley, and E. J. Heske. 2011. Modeling occupancy dynamics of a rare species, Franklin's ground squirrel, with limited data: are simple connectivity metrics adequate? *Landscape Ecology* 26:1477-1490.
37. Cosentino, B. J., R. L. Schooley, and C. A. Phillips. 2011. Spatial connectivity moderates the effect of predatory fish on salamander metapopulation dynamics. *Ecosphere* 2(8):art95. doi: 10.1890/ES11-00111.1.
36. Schooley, R. L., and L. C. Branch. 2011. Habitat quality of source patches and connectivity in fragmented landscapes. *Biodiversity and Conservation* 20:1611-1623.
35. Cosentino, B. J., R. L. Schooley, and C. A. Phillips. 2011. Connectivity of agroecosystems: dispersal costs can vary among crops. *Landscape Ecology* 26:371-379.
34. Cotner, L. A., and R. L. Schooley. 2011. Habitat occupancy by riparian muskrats reveals tolerance to urbanization and invasive vegetation. *Journal of Wildlife Management* 75:1637-1645.
33. Duggan, J. M., E. J. Heske, R. L. Schooley, A. Hurt, and A. Whitelaw. 2011. Comparing detection dog and livetrapping surveys for a cryptic rodent. *Journal of Wildlife Management* 75:1209-1217.
32. Ahlers, A. A., M. A. Mitchell, R. L. Schooley, E. J. Heske, and J. M. Levensgood. 2011. Hematologic and blood chemistry reference values for free-ranging muskrats (*Ondatra zibethicus*). *Journal of Wildlife Diseases* 47:685-689.
31. Ahlers, A. A., E. J. Heske, R. L. Schooley, and M. A. Mitchell. 2010. Home ranges and space use of muskrats *Ondatra zibethicus* in restricted linear habitats. *Wildlife Biology* 16:400-408.
30. Lehrer, E. W., and R. L. Schooley. 2010. Space use of woodchucks across an urbanization gradient within an agricultural landscape. *Journal of Mammalogy* 91:1342-1349.
29. Cosentino, B. J., R. L. Schooley, and C. A. Phillips. 2010. Wetland hydrology, area, and isolation influence spatial turnover of the painted turtle, *Chrysemys picta*. *Landscape Ecology* 25:1589-1600.
28. Ahlers, A. A., R. L. Schooley, E. J. Heske, and M. A. Mitchell. 2010. Effects of flooding and riparian buffers on survival of muskrats across a flashiness gradient. *Canadian Journal of Zoology* 88:1011-1020.
27. Lehrer, E. W., S. L. Fredebaugh, R. L. Schooley, and N. E. Mateus-Pinilla. 2010. Prevalence of antibodies to *Toxoplasma gondii* in woodchucks across an urban-rural gradient. *Journal of Wildlife Diseases* 46:977-980.
26. Schooley, R. L., and L. C. Branch. 2009. Enhancing the area-isolation paradigm: habitat heterogeneity and metapopulation dynamics of a rare wetland mammal. *Ecological Applications* 19:1708-1722.
25. Schooley, R. L., and L. C. Branch. 2007. Spatial heterogeneity in habitat quality and cross-scale

- interactions in metapopulations. *Ecosystems* 10:846-853 (Invited paper for special feature).
24. Schooley, R. L. 2006. Spatial heterogeneity and characteristic scales of species-habitat relationships. *BioScience* 56:533-537.
 23. Schooley, R. L., and L. C. Branch. 2006. Space use by round-tailed muskrats in isolated wetlands. *Journal of Mammalogy* 87:495-500.
 22. Schooley, R. L., and L. C. Branch. 2005. Survey techniques for determining occupancy of isolated wetlands by round-tailed muskrats. *Southeastern Naturalist* 4:745-756.
 21. Schooley, R. L., and J. A. Wiens. 2005. Spatial ecology of cactus bugs: area constraints and patch connectivity. *Ecology* 86:1627-1639.
 20. Schooley, R. L., and L. C. Branch. 2005. Limited perceptual range and anemotaxis in marsh rice rats *Oryzomys palustris*. *Acta Theriologica* 50:59-66.
 19. Schooley, R. L., and J. A. Wiens. 2004. Movements of cactus bugs: patch transfers, matrix resistance, and edge permeability. *Landscape Ecology* 19:801-810.
 18. Olden, J. D., R. L. Schooley, J. B. Monroe, and N. L. Poff. 2004. Context-dependent perceptual ranges and their relevance to animal movements in landscapes. *Journal of Animal Ecology* 73:1190-1194.
 17. Schooley, R. L., and J. A. Wiens. 2003. Finding habitat patches and directional connectivity. *Oikos* 102:559-570.
 16. Schooley, R. L., and J. A. Wiens. 2003. Spatial patterns, density dependence, and demography in the harvester ant, *Pogonomyrmex rugosus*, in semiarid grasslands. *Journal of Arid Environments* 53:183-196.
 15. Schooley, R. L., and J. A. Wiens. 2001. Dispersion of kangaroo rat mounds at multiple scales in New Mexico, USA. *Landscape Ecology* 16:267-277.
 14. Schooley, R. L., B. T. Bestelmeyer, and J. F. Kelly. 2000. Influence of small-scale disturbances by kangaroo rats on Chihuahuan Desert ants. *Oecologia* 125:142-149.
 13. Schooley, R. L., and B. T. Bestelmeyer. 2000. Movements during colony founding by queens of the honey ant (*Myrmecocystus mimicus* Wheeler). *American Midland Naturalist* 144:439-444.
 12. Bestelmeyer, B. T., and R. L. Schooley. 1999. The ants of the southern Sonoran desert: community structure and the role of trees. *Biodiversity and Conservation* 8:643-657.
 11. Van Horne, B., R. L. Schooley, and P. B. Sharpe. 1998. Influence of habitat, sex, age and drought on the diet of Townsend's ground squirrels. *Journal of Mammalogy* 79:521-537.
 10. Van Horne, B., G. S. Olson, R. L. Schooley, J. G. Corn, and K. P. Burnham. 1997. Effects of drought and prolonged winter on Townsend's ground squirrel demography in shrubsteppe habitats. *Ecological Monographs* 67:295-315.
 9. Wiens, J. A., R. L. Schooley, and R. D. Weeks, Jr. 1997. Patchy landscapes and animal movements: do beetles percolate? *Oikos* 78:257-264.
 8. Van Horne, B., R. L. Schooley, S. T. Knick, G. S. Olson, and K. P. Burnham. 1997. Use of burrow entrances to indicate densities of Townsend's ground squirrels. *Journal of Wildlife Management* 61:93-102.
 7. Schooley, R. L., P. B. Sharpe, and B. Van Horne. 1996. Can shrub cover increase predation risk for a desert rodent? *Canadian Journal of Zoology* 74:157-163.
 6. Schooley, R. L. 1994. Annual variation in habitat selection: patterns concealed by pooled data. *Journal of Wildlife Management* 58:367-374.
 5. Schooley, R. L., C. R. McLaughlin, G. J. Matula, Jr., and W. B. Krohn. 1994. Denning chronology of female black bears: effects of food, weather, and reproduction. *Journal of Mammalogy* 75:466-477.
 4. Schooley, R. L., C. R. McLaughlin, W. B. Krohn, and G. J. Matula, Jr. 1994. Spatiotemporal patterns of macrohabitat use by female black bears during fall. *Ursus* 9:339-348.
 3. Schooley, R. L., B. Van Horne, and K. P. Burnham. 1993. Passive integrated transponders for marking free-ranging Townsend's ground squirrels. *Journal of Mammalogy* 74:480-484.
 2. Agler, B. A., R. L. Schooley, S. E. Frohock, S. K. Katona, and I. E. Seipt. 1993. Reproduction of photographically identified fin whales, *Balaenoptera physalus*, from the Gulf of Maine. *Journal of Mammalogy* 74:577-587.

1. Schooley, R. L., and C. R. McLaughlin. 1992. Observer variability in classifying forested habitat from aircraft. *Northeast Wildlife* 49:10-16.

Book Chapters

- Schooley, R. L., and B. J. Cosentino. 2018. Metapopulation Dynamics of Wetland Species. Pages 141-147 *In* C. M. Finlayson et al. (Eds.), *The Wetland Book: Structure and Function, Management and Methods*. Springer, Dordrecht.
- Cosentino, B. J., and R. L. Schooley. 2018. Dispersal and Wetland Fragmentation. Pages 105-111 *In* C. M. Finlayson et al. (Eds.), *The Wetland Book: Structure and Function, Management and Methods*. Springer, Dordrecht.

Conference Proceedings

- Schooley, R. L., and L. C. Branch. 2006. Spatial distribution of round-tailed muskrats on dry prairie wetlands: untangling historical landscapes and current land use. Pages 216-218 *In* Noss, R.F., ed. *Land of Fire and Water: The Florida Dry Prairie Ecosystem*. Proceedings of the Florida Dry Prairie Conference.

Competitive Extramural Funding

2020. Peters, D. P. C. (Schooley is one twelve co-PIs). LTER: Long-term research at the Jornada Basin LTER (LTER – VII). NSF, LTER. \$4,508,000
2018. Peters, D. P. C. (Schooley is one twelve co-PIs). LTER: Long-term research at the Jornada Basin LTER (LTER – VII). NSF, LTER. \$2,354,000
2016. Schooley, R. L., B. T. Bestelmeyer, B. B. Cutts, and B. J. Cosentino. Spatial congruence between biodiversity and other ecosystem services across scales in a managed landscape mosaic. USDA, National Institute of Food and Agriculture, Agroecosystem Management. \$440,000.
2016. Schooley, R. L., and B. J. Cosentino. *Geomys bursarius* in Illinois: Distribution and co-occurrence with badgers, movements and survival, and spatial genetic structure. Federal Aid in Wildlife Restoration, US Fish and Wildlife Service. \$380,000.
2013. Ward, M. P., R. L. Schooley, T. J. Benson, and J. D. Brawn. Evaluation of SAFE (State Acres for Wildlife Enhancement) and the development of the Farmland & Prairie Campaign. Federal Aid in Wildlife Restoration, US Fish and Wildlife Service. \$1,408,000.
2012. Peters, D. P. C. (Schooley is one ten co-PIs). LTER: Long-term research at the Jornada Basin LTER (LTER – VI). NSF, LTER. \$5,880,000
2011. Schooley, R. L., L. W. Lehrer, S. B. Magle, and E. V. Lonsdorf. Movements, habitat use, and survival of translocated woodchucks. Federal Aid in Wildlife Restoration, US Fish and Wildlife Service. \$90,000.
2010. Schooley, R. L., J. F. Kelly, B. T. Bestelmeyer, J. D. Brawn, and S. V. Bestelmeyer. Targeting restoration of desert grasslands to maximize biodiversity responses at landscape scales. USDA, National Institute of Food and Agriculture, Managed Ecosystems. \$499,776.
2009. Schooley, R. L., E. J. Heske, and M. A. Mitchell. Movements and habitat use of American mink in an agricultural landscape. State Furbearer Fund, Illinois Department of Natural Resources. \$174,000.
2009. Ward, M. P., R. L. Schooley, and J. D. Brawn. Grassland bird monitoring: evaluation of SAFE (State Acres for Wildlife Enhancement). Federal Aid in Wildlife Restoration, US Fish and Wildlife Service. \$562,000.
2008. Schooley, R. L., E. J. Heske, and J. M. Duggan. Developing effective survey and habitat evaluation procedures for Franklin's ground squirrels. Federal Aid in Wildlife Restoration, US Fish and Wildlife Service. \$75,000.
2008. Brawn, J. D., M. P. Ward, and R. L. Schooley. Monitoring wildlife on lands designated by "State Acres for Wildlife Enhancement." Federal Aid in Wildlife Restoration, US Fish and Wildlife Service. \$50,000.

- 2008. Schooley, R. L., J. M. Levenson, J. E. Diffendorfer, and E. J. Heske. Survey techniques and site occupancy for riparian mink in Illinois. State Furbearer Fund, Illinois Department of Natural Resources. \$10,500.
- 2008. Cosentino, B. J., C. A. Phillips, and R. L. Schooley. Wetland occupancy and landscape connectivity for Blanding's and western painted turtles in the Green River Valley. \$5,000. Illinois Wildlife Preservation Funds, Illinois Department of Natural Resources.
- 2007. Schooley, R. L., J. M. Levenson, J. E. Diffendorfer, and E. J. Heske. Recruitment, mortality, and site occupancy for riparian muskrats: effects of flow regime and landscape context. Federal Aid in Wildlife Restoration, US Fish and Wildlife Service. \$50,000.
- 2006. Schooley, R. L. Hierarchical Bayesian model for a management metapopulation of endangered red-cockaded woodpeckers. US Department of Defense. \$37,733 (sub-award).
- 2003. Schooley, R. L., and L. C. Branch. Wetlands assessment in a landscape context on Avon Park Air Force Range. U.S. Department of Defense. \$68,997.

Competitive Internal Funding

- 2011. Schooley, R. L., J. D. Brawn, and P. J. Weatherhead. Effects of biofuels production on biodiversity and landscape connectivity. Energy Biosciences Institute. \$314,346.
- 2011. Schooley, R. L. Role of forests in landscape epidemiology of amphibian chytrid fungus. McIntire-Stennis Funds, Department of Natural Resources and Environmental Sciences, University of Illinois. \$62,100.

Professional Activities

Associate Editor: Journal of Mammalogy (2017-2020)

Editorial Board: Landscape Ecology (2009-2017)

Journal Reviewer: American Midland Naturalist, Behavioral Ecology and Sociobiology, Behaviour, Canadian Journal of Fisheries and Aquatic Sciences, Canadian Journal of Zoology, Condor, Diversity and Distributions, Ecography, Ecological Applications, Ecology, Ecology and Evolution, Ecosphere, Ecosystems, Functional Ecology, Herpetological Review, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Arid Environments, Journal of Mammalogy, Journal of Tropical Ecology, Journal of Urban Ecology, Journal of Wildlife Management, Landscape Ecology, Landscape and Urban Planning, Northeast Wildlife, Proceedings of the Royal Society B, Oecologia, Oikos, PloS ONE, Rangelands, Scientific Reports, Southeastern Naturalist, Ursus, Western North American Naturalist, Wetlands, Wildlife Research

Grant Reviewer: National Science Foundation (DEB, CAREER), Israel Science Foundation, Department of Defense – SERDP, M. J. Murdock Charitable Trust, Global Drylands Center

Society Member: Ecological Society of America, International Association for Landscape Ecology, American Society of Mammalogists, The Wildlife Society.

Committee Member: Grant-in-Aids, American Society of Mammalogists (2010-2019).

Committee Member: Illinois State Furbearer Committee (2009-present).

Local Organizing Committee Member: International Association for Landscape Ecology, Fifth World Congress, Snowmass Village, CO, 1999.

Awards

2016. Award of Professional Excellence. Department of Wildlife, Fisheries, and Conservation Biology. University of Maine. *In recognition of outstanding and long-term contributions to the wildlife profession and the conservation of natural resources.*

Invited Seminars:

2019. Shrub encroachment, landscape restoration, and wildlife responses in the Chihuahuan Desert. Malpai Borderlands Science Conference, Rodeo, NM.
2017. Shrub encroachment and desert rodent communities: energetic compensation, productivity pulses, and core-transient dynamics. New Mexico State University, Las Cruces, NM.
2015. Integrating habitat heterogeneity into metapopulation approaches across scales. International Association of Landscape Ecology World Congress. Portland, OR.
2013. Habitat heterogeneity and biodiversity conservation: from desert grassland restoration to Midwest biofuel landscapes. Lincoln Park Zoo, Chicago, IL.
2011. Habitat fragmentation, landscape connectivity, and biodiversity restoration. New Mexico State University and Jornada Long-Term Ecological Research Program, Las Cruces, NM.
2008. Occupancy estimation for American mink: walking surveys, rafts, and imperfect detection. Midwest Fish and Wildlife Conference, Columbus, OH.
2006. Habitat heterogeneity, landscape connectivity, and metapopulations: upgrading the area-isolation paradigm. Program in Ecology and Evolutionary Biology, University of Illinois at Urbana-Champaign.
2005. Distribution of species in fragmented landscapes: integrating metapopulation dynamics and landscape ecology. Department of Zoology and Physiology, University of Wyoming, Laramie, Wyoming.
2005. Distribution of species in fragmented landscapes: integrating metapopulation dynamics and landscape ecology. Department of Biology, New Mexico State University, Las Cruces, New Mexico.
2004. Animal distributions in fragmented landscapes: beyond simple patch-matrix views. Department of Entomology and Wildlife Ecology, University of Delaware, Newark, DE.
2004. Patch occupancy and spatial turnover of round-tailed muskrats: classical metapopulation dynamics? University of Florida, Gainesville, FL.
2004. Distribution and ecology of round-tailed muskrats (*Neofiber alleni*) in a dry prairie landscape. Florida Dry Prairie Conference, Sebring, FL.

Representative Contributed Presentations (since 2013)

- Alexander, N., B. Cosentino, and R. Schooley. 2021. Testing the niche reduction hypothesis for a fossorial species experiencing agricultural intensification. International Association of Landscape Ecology—North America. Reno, NV (Virtual).
- Wagnon, C. J., R. Schooley, B. Cosentino, and B. Bestelmeyer. 2019. Shrub encroachment alters the landscape of fear for lagomorphs in the Chihuahuan Desert. American Fisheries Society and The Wildlife Society Joint Annual Conference. Reno, NV.
- Dinan, M., B. Cutts, B. Bestelmeyer, R. Schooley, and B. Cosentino. 2019. Uniting management and societal goals: Identifying cultural ecosystem services to inform grassland restoration. Ecological Society of America Annual Meeting, Louisville, KY.
- Schooley, R. L., C. J. Wagnon, and B. T. Bestelmeyer. 2018. Shrub encroachment, landscape restoration, and intraguild predation in the Chihuahuan Desert. American Society of Mammalogists, Manhattan, KS.
- Cosentino, B. J., R. L. Schooley, and B. T. Bestelmeyer. 2018. Understanding the relationship of lizard communities to desert grassland restoration with a landscape-scale experiment. North American Congress for Conservation Biology, Toronto.
- Schooley, R. L., and B. T. Bestelmeyer. 2016. Bottom-up pulses and desert rodent dynamics across shrubland-grassland ecotones. American Society of Mammalogists, Minneapolis, MN.
- Nawrocki, J. A., R. L. Schooley, and M. P. Ward. 2016. Dangerous misperceptions: eastern cottontail survival in an agroecosystem. American Society of Mammalogists, Minneapolis, MN.
- Lehrer, E. W., R. L. Schooley, J. M. Nevis, R. J. Kilgour, P. J. Wolff, and S. B. Magle. 2016. Translocation as

- a solution to human-wildlife conflict: survival and movements of translocated, nuisance woodchucks in the greater Chicago area. Society for Conservation Biology, Madison, WI.
- Lehrer, E. W., R. L. Schooley, S. B. Magle, and J. M. Nevis. 2015. Effects of translocation on survival and movements of nuisance woodchucks (*Marmota monax*). International Urban Wildlife Conference, Chicago, IL.
- Cosentino, B. J., R. L. Schooley, B. T. Bestelmeyer, A. J. McCarthy, and K. Sierzega. 2014. Landscape restoration supports genetic connectivity among populations of a keystone species. Ecological Society of America, Sacramento, CA.
- DaVanon, K. A., L. Howard, B. T. Bestelmeyer, K. E. Mabry, and R. L. Schooley. 2014. The effects of urbanization on state change mediated by predator-prey interactions. Ecological Society of America, Sacramento, CA.
- Nawrocki, J. A., R. L. Schooley, and M. P. Ward. 2014. Perceived versus real predation risk of eastern cottontails in a dynamic agroecosystem. The Wildlife Society Annual Conference, Pittsburgh, PA.
- Schooley, R. L., S. Fredebaugh-Siller, C. Suski, and Z. Zuckerman. 2013. Small mammals in a biofuels landscape: community patterns and stress responses. International Mammalogical Congress, Belfast, Northern Ireland.
- Cosentino, B. J., R. L. Schooley, B. T. Bestelmeyer, and J. Coffman. 2013. Local and landscape-scale constraints on the response of a keystone rodent to habitat restoration. International Mammalogical Congress, Belfast, Northern Ireland.
- Ahlers, A. A., P. Wolff, E. J. Heske, and R. L. Schooley. 2013. Summer precipitation predicts spatial distributions of semiaquatic mammals: implications for climate change. International Mammalogical Congress, Belfast, Northern Ireland.
- Rodger, T., J. Giacalone, R. L. Schooley, and E. J. Heske. 2013. Noninvasive genetics versus camera trapping: estimating population density of an elusive carnivore *Leopardus pardalis*. International Mammalogical Congress, Belfast, Northern Ireland.
- Lehrer, E. W., R. L. Schooley, S. B. Magle, R. J. Kilgour, and J. Nevis. 2013. Post-release movements and survival of translocated, nuisance woodchucks in the Chicago metropolitan area. The Wildlife Society Annual Conference, Milwaukee, WI.

Service at University of Illinois

Department of Natural Resources and Environmental Sciences (NRES)

2016-2019	Courses and Curriculum Committee
2017	Search Committee, Faculty position in Social Dimensions of the Environment
2012-2016	Teaching Coordinator, Chair of Courses and Curriculum Committee
2012-2017	Promotion and Tenure Committee
2011-2019	Departmental Faculty Advisory Committee
2014	Search Committee, Faculty position in Stream Ecology
2009-2011	Chair, IT Committee
2009-2011	Facilities and Services Committee
2007-2009	Courses and Curriculum Committee
2007	Search Committee, Faculty position in Landscape Spatial Analysis and Management
2006	Search Committee, Faculty position in Applied Landscape Ecology
2007	Unit Leader, Campus Charitable Fund Drive
2005-2007	Graduate Admissions and Policy Committee
2005-present	Undergraduate Curriculum Advisor, NRES, Fish and Wildlife Conservation Concentration (10-25 students per year)
2006-2015	Lead Faculty Advisor, University of Illinois Student Chapter of the Wildlife Society

College of Agricultural, Consumer, and Environmental Sciences (ACES)

2021 Search Committee, Assistant Dean, Extension (Natural Resources, Environment and Energy)
2020 Chair, Search Committee, Assistant Dean, Extension (NREE)
2018-2019 Research Policy Committee
2017 Selection Committee, Team Award for Excellence
2016 Search Committee, Associate Dean for Academic Programs
2015-2016 Executive Committee
2015-2017 Undergraduate Education Policy Committee, Executive Committee Liaison
2015 Chair, Selection Committee for Teaching and Advising Awards
2013-2016 Academy of Teaching Excellence
2012-2016 Courses and Curriculum Committee
2010-2012 Research Policy Committee

Campus

2011-present Committee on Natural Areas, Office of the Vice Chancellor for Research
2015-2019 Advisory Board, Office of Undergraduate Research
2014 Search Committee, Wildlife Ecologist, National Great Rivers Research and Education Center
2006-2009 Steering Committee; Program in Ecology, Evolution, and Conservation Biology