

**WILLIAM J. MCSHEA****CURRICULUM VITAE – October 2021****PERSONAL**

Address: 1500 Remount Road  
 Smithsonian's Conservation Biology Institute  
 Front Royal, VA, 22630  
 Office Phone: (540) 635-6563  
 Email: mcsheaw@si.edu  
 Birth Date: January 13, 1956

**EDUCATION**

B.S., Bucknell University, 1977, Animal Behavior  
 M.S., University of New Hampshire, 1981, Zoology  
 Ph.D., State University of New York at Binghamton, 1985

**PROFESSIONAL EXPERIENCE**

2006-present	Wildlife Ecologist, National Zoological Park, Smithsonian's Conservation Biology Institute, Front Royal, VA
2004-2006	Research Scientist, National Zoo/Wildlife Conservation Society Joint Appalachian Forest Program, Front Royal, VA
1991-2003	Wildlife Ecologist, National Zoological Park, Smithsonian Institution, Washington, D.C.
2000-present	Affiliate Associate Professor, Department of Environmental Science and Policy, George Mason University, Fairfax, VA
2002-present	Guest Research Scientist, College of Life Sciences, Peking University, Beijing, China
2000-2010	Affiliate Associate Professor, Center for Environmental Sciences, Virginia Commonwealth University, Richmond, VA
2003-2007	Adjunct Associate Professor, Department of Forest, Range and Wildlife Sciences, Utah State University, Logan, UT
1997-2007	Adjunct Associate Professor, Department of Biology, University of Pennsylvania, Philadelphia, PA
1993-1997	Adjunct Assistant Professor, Department of Biology, University of Pennsylvania, Philadelphia, PA
8/90-5/91	Visiting Assistant Professor, Department of Biology, St. Lawrence University, Canton, NY
6/86-8/90	Research Fellow, National Zoological Park, Smithsonian Institution, Washington, D.C.
8/85-6/86	Lecturer in Mammalogy and research assistant to Charles Aquadro Cornell University, Ithaca, NY.
1/85-6/85	Lecturer in Ecology, State University of New York, Binghamton, New York

## **RECENT COMMITTEE DUTIES AND HONORS**

Associate Editor, Environmental Conservation (since December 2011)  
 ACUC National Zoological Park, (member since 2006; Co-Chairman 2010-2015)  
 IUCN/SSC Deer Study Group (current Co-Chairman)  
 IUCN Bear Specialist Group  
 Co-Chairman of IUCN Working Group to monitor wild bear populations in China (since December 2013)  
 Invited Study Leader, High Country Tours, Asia's Rising Global Powers, March 2008  
 Scientific Review Panel, Patuxent Wildlife Research Center, Nov. 2007  
 Certified Senior Ecologist, Ecological Society of America (expired)  
 State of Virginia DGIF Animal Use and Care Committee  
 State of Virginia Deer Management Task Force (2006 and 2014)  
 State of Virginia Bird Taxa Committee (2006)  
 Virginia Chapter of The Wildlife Society Executive Committee (2004-2008)  
 AZAA Giant Panda Species Survival Plan Advisory Team  
 Technical Advisory Committee, National Park Service, Capital Parks Region

## **MAJOR AWARDS AND GRANTS (LAST 5 YEARS)**

Mars Foundation (2018) "Diversity measures associated with bison restoration at American Prairie Reserve, Northeastern Montana".

Humane Rescue Alliance (2018) "Population estimation of feral cats in Washington DC"

Smithsonian Institution (2018) (with Krista Teixeira) Resurvey of ForestGeo Large Tree Plot at SCBI

Willowsford Conservancy (2017) "Assessing white-tailed deer impacts on a suburban forest"

Smithsonian Institution (2017) (with Kristin Black) "Engaging urban youth in eMammal."

Smithsonian Institution (2015) (with Tavis Forrester) "Engaging urban youth in eMammal."

Department of Defense Educational Opportunities (2014-2016) (Sub-Contract to 7-Dippity) "Bringing eMammal into the science curriculum in Okaloosa County, Florida"

National Science Foundation (2014-2017) ( Co-investigator, Tavis Forrester (SI) and David Luther, GMU). "Creating a dataflow for acoustic mammal survey data."

US State Department (2013) "Assisting villages inside a Myanmar reserve toward sustainable agriculture to conserve wildlife"

SI-GEO (2013) "Resurvey of Large Tree Plot at SCBI" (Co-Investigator Norm Bourg)

## VOLUME

Feldhamer, G. A. and W. J. McShea. 2012. Deer: The Animal Answer Guide. Johns Hopkins Press.

McShea, W.J. S. Li, D. Wang, X. Shen and W. Fang. 2018. Guide to the Wildlife of Southwest China. Smithsonian Institution Scholarly Press

## VOLUMES EDITED

McShea, W. J. (special issues editor). 2019. Bring Species and Ecosystems Together with Remote Sensing Tools to Develop New Biodiversity Metrics and Indicators. Environmental Conservation

McShea, W.J., R. B. Harris, D. Garshelis, and D. Wang, editors. 2014. A Chance for Lasting Survival by Pan Wenshi, Lü Zhi, Zhu Xiaojian, Wang Dajun, Wang Hao, Long Yu, Fu Dali, and Zhou Xin. Translated by Richard B. Harris. Smithsonian Institution Scholarly Press.

McShea, W. J. (special issues editor). 2014. Using Spatial Simulation Models to Plan for Persistence of Biotic Communities under Global Change. Special Issue of Environmental Conservation.

McShea, W. J., S. J. Davies, and N. Bhumpakphan. editors. 2011. Ecology and Conservation of Seasonally Dry Forests in Asia. Smithsonian Institution Scholarly Press.

McShea, W. J., and W. M. Healy. editors. 2002. Oak Forest Ecosystems: Ecology and Management for Wildlife. Johns Hopkins University Press. (Paperback 2003)

McShea, W. J., H. B. Underwood, and J. H. Rappole. editors. 1997. The Science of Overabundance: Deer ecology and population management. Smithsonian Institution Scholarly Press. Washington DC. (Paperback 2003)

## REFEREED PUBLICATIONS

Paraskevopoulou, Z., Shamon, H., Songer, M., Ruxton, G., and W. J. McShea. 2021. Field surveys can improve predictions of habitat suitability for reintroductions: a swift fox case study. Oryx, : 1-10. <https://doi.org/10.1017/S0030605320000964>

Bu, H., McShea, W. J., Wang, D. Wang, F., Chen, Y., Gu X., Yu L., Jiang, S., Zhang, F. and Li, S. 2021. Not all forests are alike: the role of commercial forest in the conservation of landscape connectivity for the giant panda. Landscape Ecology [https://doi.org/10.1007/s10980-021-01262-2\(0123456789\)..-volV](https://doi.org/10.1007/s10980-021-01262-2(0123456789)..-volV)

Wiegand, T., Wang, X., Anderson-Teixeira, K. J., Bourg, N. A., Cao, M., Ci, X., Davies, S. J., Hao, Z., Howe, R. W., Kress, W. J., Lian, J., Li, J., Lin, L., Lin, Y., Ma, K., McShea, W., Mi, X., Su, S.-H., Sun, I.-F., Wolf, A., Ye, W. and Huth, A.. 2021. Consequences of spatial patterns for coexistence in species-rich plant communities. Nature Ecology & Evolution, <https://doi.org/10.1038/s41559-021-01440-0>

Herrera, D., Moore, S. M., Herrmann, V., McShea, W., and Cove, M. 2021. A shot in the dark: White and infrared LED flash camera traps yield similar detection probabilities for common urban mammal species. *Hystrix* 3: doi:10.4404/hystrix-00429-2021

Gorchov, D. L., Blossey, B., Averill, K. M., Davalos, A., Heberling, J. M., Jenkins, M. A., Kalisz, S., McShea, W. J., Morrison, J. A., Nuzzo, V., Webster, C. R. and Waller, D. M. 2021. Differential and interacting impacts of invasive plants and white-tailed deer in eastern US forests. Biological Invasions, <https://doi.org/10.1007/s10530-021-02551-2>

Suraci, J. P., K. M. Gaynor, M. L. Allen, P. Alexander, J. S. Brashares, S. Cendejas-Zarelli, K. Crooks, L. M. Elbroch, T. Forester, A. M. Green, J. Haight, N. C. Harris, M. Hebblewhite, F. Isbell, B. Johnston, R. Kays P. E. Lendrum, J. S. Lewis, A. McInturff, W. McShea, T. W. Murphy, M. S. Palmer, A. Parsons, M. A. Parsons, M. E. Pendergast, C. Pekins, L. Prugh, K. A. Sager-Fradkin, S. Schuttler, Ç. H. Şekercioğlu, B. Shepherd, L. Whipple, J. Whittington, G. Wittemyer, and C. C. Wilmers. 2021. Disturbance type and species life history predict mammal responses to humans. Global Change Biology. <https://doi.org/10.1111/gcb.15650>

Yang, H., A. Viña, J. A. Winkler, M. G. Chung, Q. Huang, Y. Doua, W. J. McShea, M. Songer, J. Zhang , and J. Liu. 2021. A global assessment of the impact of individual protected areas on preventing forest loss. Science of the Total Environment doi.org/10.1016/j.scitotenv.2021.145995

Cove, M. V., Kays, R., Bontrager, H., Bresnan, C., Lasky, M., Frerichs, T., Klann, R., Lee, T. E., Crockett, S. C., Crupi, A. P., Weiss, K. C. B., Rowe, H., Sprague, T., Schipper, J., Tellez, C., Lepczyk, C. A., Fantle-Lepczyk, J. E., LaPoint, S., Williamson, J., Fisher-Reid, M. C., King, S. M., Bebko, A. J., Chrysafis, P., Jensen, A. J., Jachowski, D. S.,...McShea, W. J. 2021. SNAPSHOT USA 2019: a coordinated national camera trap survey of the United States Ecology, <https://doi.org/10.1002/ecy.3353>

Davies, S. J., I. Abiem, K. Abu Salim, S. Aguilar, D. Allen, A. Alonso, K. Anderson-Teixeira, A Andrade, G. Arellano, P. S. Ashton, P. J. Baker, ....., W, J. McShea,....., Daniel Zuleta. 2021. ForestGEO: Understanding forest diversity and dynamics through a global observatory network. Biological Conservation 253, <https://doi.org/10.1016/j.biocon.2020.108907>.

Herrera, D. J. S. M. Moore, D. T. T. Flockhart, W. J. McShea, and M. V. Cove. 2021 Thinking outside the park: recommendations for camera trapping mammal communities in the urban matrix, *Journal of Urban Ecology*, 7: 1, juaa036, <https://doi.org/10.1093/jue/juaa036>

Wang, F., J. Winkler, A. Viña, W. J. McShea, S. Li, T. Connor, Z. Zhao, D. Wang, H. Yang, Y. Tang, J. Zhang, and J. Liu. 2021. The hidden risk of using umbrella species as conservation surrogates: A spatio-temporal approach. Biological Conservation, 253, doi.org/10.1016/j.biocon.2020.108913.

Swaigood, R. R., W.J. McShea, D. Wildt, V. Hull, J. Zhang, M. A. Owen, Z. Zhang, Z. Dvornicky-Raymond, M. Valitutto, D. Li, Z. Hemin, J. Santiestevan, and F. Wei. 2020. Giant Panda (*Ailuropoda melanoleuca*), pages 63-77 *In Bears of the World; Ecology, Conservation, and Management*. V. Penteriani and M. Melletti editors. Cambridge University Press

McShea, W. J., X. Shen, F. Liu, T. Wang, Z. Xiao, and S. Li. 2020. China's wildlife camera-trap monitoring needs a unified standard. Biodiversity Science 28: doi: 10.17520/biods.2020188

McGregor, I., R. Helcoski, N. Kunert, A. Tepley, E. Gonzalez-Akre, V. Herrmann, J. Zailaa, A. Stovall, N. Bourg, W. J. McShea, N. Pederson, L. Sack, K. Anderson-Teixeira. 2020. Tree height and leaf drought tolerance traits shape growth responses across droughts in a temperate broadleaf forest. New Phytologist. <https://doi.org/10.1111/nph.16996>

Shamon, H., Paraskevopoulou, Z., Kitzes, J., Card, E., Deichmann, J.L., Boyce, A.J. and McShea, W.J., Using ecoacoustics metrics to track grassland bird richness across landscape gradients. Ecological Indicators, 120, p.106928.

Kolowski, J. M. J. Oley and W. J. McShea. 2021. High density camera trap grid reveals lack of consistency in detection and capture rates of single cameras across space and time. Ecosphere.12:e03350.10.1002/ecs2.3350

Anderson-Teixeira, K.J., Herrmann, V., Cass, W.B., Williams, A.B., Paull, S.J., Gonzalez-Akre, E.B., Helcoski, R., Tepley, A.J., Bourg, N.A., Cosma, C.T., Ferson, A.E., .. McShea, W. J. 2020. Long-Term Impacts of Invasive Insects and Pathogens on Composition, Biomass, and Diversity of Forests in Virginia's Blue Ridge Mountains. Ecosystems, 24: 89-105.

Li, S., McShea, W.J., Wang, D., Gu, X., Zhang, X., Zhang, L. and Shen, X., 2020. Retreat of large carnivores across the giant panda distribution range. Nature Ecology & Evolution, 4:1327-1331.

Kays, R., Arbogast, B.S., Baker-Whatton, M., Beirne, C., Boone, H.M., Bowler, M., Burneo, S.F., Cove, M.V., Ding, P., Espinosa, S. ... Mcshea, W. J.....and Gonçalves, A.L.S., 2020. An empirical evaluation of camera trap study design: How many, how long and when? Methods in Ecology and Evolution. DOI: 10.1111/2041-210X.13370

Rhodes, O. E. Jr, F. Bréchnignac, , T. G. Hinton, C. Mothersill, J. A. Arnonelli, D. P. Aubrey, L. W. Barnhouse, J. C. Beasley, A. Bonisoli-Alquati, L. R. Boring, A. L. Bryan, K. A. Capps, B. Clément, A. Coleman, C. Condon, F. Coutelot, T. DeVol, G. Dharmarajan, D. Fletcher, W. Flynn, G. Gladfelder, T. C. Glenn, S. Hendricks, K. Ishida, T. Jannik, L. Kapustka, U. Kautsky, R. Kennamer, W. Kuhne, S. Lance, G. Lptyev, C. Love, L. Manglass, N. Martinez, T. Mathews, A. McKee, W. McShea, S. Mihok, G. Mills, B. Parrott, B. Powell, E. Pryakhin, A. Rypstra, D. Scott, J. Seaman, C. Seymour, M. Shkvyria, A. Ward, D. White, M. D. Wood. 2020. Integration of ecosystem science into radioecology: A consensus perspective. Science of the Total Environment: 740: 140031.

Fan, F., H. Bu, W. J. McShea, X. Shen, B. V. Li, and S. Li. 2020. Seasonal habitat use and activity patterns of blood pheasant *Ithaginis cruentus* in the presence of free-ranging livestock. Global Ecology and Conservation: e01155.  
<https://doi.org/10.1016/j.gecco.2020.e01155>

Kays, R., W. J. McShea and M. Wikelski. 2020. Born-digital biodiversity data: Millions and billions. Diversity and Distributions, 26(5), pp.644-648.

Cooper, W.J., McShea, W.J., Luther, D.A. and Forrester, T., 2020. Incorporating local habitat heterogeneity and productivity measures when modelling vertebrate richness. Environmental Conservation, 47(1), pp.7-14.

Ledvina, J., W. J. McShea, N. A. Bourg, V. Hermann, T. Akre, A. E. M. Johnson. 2020. Management regime and field age affects the species richness and cover of native forbs and exotic species in Virginia grasslands. Ecological Restoration. 38: 83-93

Cooper, W.J., McShea, W.J., Forrester, T. and Luther, D.A., 2020. The value of local habitat heterogeneity and productivity when estimating avian species richness and species of concern. Ecosphere, 11(5), p.e03107.

Belote, R.T., S. Faurby, A. Brennan, N.H. Carter, M.S. Dietz, B. Hahn, W.J. McShea, and J. Gage. 2020. Mammal species composition reveals new insights into Earth's remaining wilderness. Frontiers in Ecology and the Environment 18: 376-383.

Cove, M. V.,C. Fergus, I. Lacher, T. Akre and W. J. McShea. 2019. Projecting Mammal Distributions in Response to Future Alternative Landscapes in a Rapidly Transitioning Region. Remote Sensing, 11(21): 2482  
<https://doi.org/10.3390/rs11212482>

McShea, W. J., R. Sukmasuang, D. L. Erickson, V. Herrmann, D. Ngoprasert, N. Bhumpakphan, S. J. Davies. 2019 Metabarcoding reveals diet diversity in an ungulate community in Thailand. Biotropica doi:10.1111/btp.12720

Thau, D., J. A. Ahumada, T. Birch, E. Fegraus, N. Flores, W. Jetz, R. Kays, M. Kinnaird, S. Kulkarni, A. Lyet, T. G. O'Brien, J. Palmer, S. Schuttler, M. Duong, R. Oliver, J. Y. Zhao, W. J. McShea. 2019. Artificial Intelligence's Role in Global Camera Trap Data Management and Analytics via Wildlife Insights. Biodiversity Information Science and Standards, 3, e38233.

Card, L. R., W. J. McShea, R. C. Fleischer, J. E. Maldonado, K. Stewardson, M. G. Campana, P. A. Jansen, and J. M. Calabrese. 2019. Tick Burdens in a Small Mammal Community in Virginia. Northeastern Naturalist, 26:641-655.  
[doi.org/10.1656/045.026.0317](https://doi.org/10.1656/045.026.0317)

Fung, T., Chisholm, R. A., Anderson-Teixeira, K., Bourg, N., Brockelman, W. Y., Bunyavejchewin, S., McShea, W. J. ... & Dattaraja, H. S. 2019. Temporal population variability in local forest communities has mixed effects on tree species richness across a latitudinal gradient. Ecology Letters. [doi.org/10.1111/ele.13412](https://doi.org/10.1111/ele.13412)

Johnson, A. E.M., T. S. Sillett, D. Luther, V., Herrmann, T. A. Akre, and W. J. McShea. 2019. The effects of grassland management on overwintering bird communities. Journal of Wildlife Management, 83:1515-1526 DOI: 10.1002/jwmg.21730

Menge, D. N. L., R. A. Chisholm, S. J. Davies, K. A. Salim, D. Allen, M. Alvarez, N. Bourg, W. Y. Brockelman, S. Bunyavejchewin, ...W. McShea.... and T. Fung. 2019. Patterns of nitrogen-fixing tree abundance in forests across Asia and America. Journal of Ecology [doi.org/10.1111/1365-2745.13199](https://doi.org/10.1111/1365-2745.13199)

Shen, X., Li, S., McShea, W.J., Wang, D., Yu, J., Shi, X., Dong, W., Mi, X. and Ma, K., 2019. Evaluating the effectiveness of using flagship species for zone designations in China's nature reserves. Conservation Biology. DOI: 10.1111/cobi.13345

Lacher, I., Akre, T., McShea, W. J., McBride, M., Thompson, J. R. and Fergus, C.. 2019. Engaging regional stakeholders in scenario planning for the long-term preservation of ecosystem services in Northwestern Virginia. Case Studies in the Environment, [doi:10.1525/cse.2018.001180](https://doi.org/10.1525/cse.2018.001180)

Lacher, I. E. Ahmadisharai, C. Fergus, T. Akre, W. J. McShea, B. L. Benham and K. S. Kline. 2018. Scale-dependent impacts of urban and agricultural land use on nutrients, sediment, and runoff. Science of the Total Environment.  
[doi.org/10.1016/j.scitotenv.2018.09.370](https://doi.org/10.1016/j.scitotenv.2018.09.370)

Chu, C., Lutz, J.A., Kral, K., Vrška, T., Yin, X., Myers, J.A., Abiem, I., Alonso, A., Bourg, N., Burslem, D.F. W. McShea...and Cao, M.2019. Direct and indirect effects of climate on richness drive the latitudinal diversity gradient in forest trees. Ecology Letters 22:245-255. <https://doi.org/10.1111/ele.13175>

Parsons, A.W., Forrester, T., Baker-Whatton, M.C., McShea, W.J., Rota, C.T., Schuttler, S.G., Millsaugh, J.J. and Kays, R., 2018. Mammal communities are larger and more diverse in moderately developed areas. eLife, 7, p.e38012.

McGowan, P. J. K., L. Maire, A. Symes, J.R.S. Westrip, H. Wheatley, J. Burton, S. King, W. J. McShea, P. D. Moehlman, A. T. Smith, J. C. Wheeler and S. H. M. Butchart. 2018. Tracking trends in the extinction risk of wild relatives of domesticated species to assess progress against global biodiversity targets. Conservation Letters. <https://doi.org/10.1111/conl.12588>

Wang, F., Q. Zhao, W. J. McShea, M. Songer, Q. Huang, X. Zhang, and L. Zhou. 2018. Incorporating biotic interactions reveals potential climate tolerance of giant pandas. Conservation Letters, [doi:10.1111/conl.12592](https://doi.org/10.1111/conl.12592)

McShea, W. J., M. Aung, M. Songer and G. Connette. 2018. The Challenges of Protecting an Endangered Species in the Developing World: A Case History of Eld's Deer Conservation in Myanmar. Case Studies in the Environment. <https://doi.org/10.1525/cse.2017.000760>

Thakar, M., E. W. Schättin and W. J. McShea. 2018. Globally common, locally rare: revisiting disregarded genetic diversity for conservation planning of widespread species. Biodiversity and Conservation. 27:3031-3035

Lutz, J.A., Furniss, T.J., Johnson, D.J., Davies, S.J., Allen, D., Alonso, A., Anderson-Teixeira, K.J., Andrade, A., Baltzer, J., Becker, K.M....McShea, W.J.... and Blomdahl, E.M., 2018. Global importance of large-diameter trees. Global Ecology and Biogeography. <https://doi.org/10.1111/geb.12747>

Wang F, McShea WJ, Li S, Wang D. 2018. Does one size fit all? A multispecies approach to regional landscape corridor planning. Diversity and Distributions. 24:415-425.

Parsons, A.W., T. Forrester, W.J. McShea, M. C. Baker-Whatton, J. J. Millsaugh, and R. Kays. 2017. Do occupancy or detection rates from camera traps reflect deer density? Journal of Mammalogy, 98:1547-1557

Prescott, G. W., Sutherland, W. J., Aguirre, D., Baird, M., Bowman, V., Brunner, J., Connette, G. M., Cosier, M., Dapice, D., De Alban, J. D. T., Diment, A., Fogerite, J., Fox, J., Hlaing, W., Htun, S., Hurd, J., LaJeunesse Connette, K., Lasmana, F., Lim, C. L., Lynam, A., Maung, A. C., McCarron, B., McCarthy, J. F., McShea, W. J., Momberg, F., Mon, M. S., Myint, T., Oberndorf, R., Oo, T. N., Phelps, J., Rao, M., Schmidt-Vogt, D., Speechly, H., Springate-Baginski, O., Steinmetz, R., Talbott, K., Than, M. M., Thaug, T. L., Thawng, S. C. L., Thein, K. M., Thein, S., Tizard, R., Whitten, T., Williams, G., Wilson, T., Woods, K., Ziegler, A. D., Zrust, M. and Webb, E. L. 2017.

Political transition and emergent forest-conservation issues in Myanmar. Conservation Biology. 31:1257-1270. doi:10.1111/cobi.13021

Bourg, N. A. W. J. McShea, V. Herrmann, and C. M. Stewart. 2017. Interactive effects of deer exclusion and exotic plant removal on deciduous forest understory communities. AoB PLANTS, plx046, <https://doi.org/10.1093/aobpla/plx046>

Averill, K. M., D. A. Mortensen, E. A. H. Smithwick, S. Kalisz, W. J. McShea, N. A. Bourg, J. D. Parker, A. A. Royo, M. D. Abrams, D. K. Apsley, B. Blossey, D. H. Boucher, K. L. Caraher, A. DiTommaso, S. E. Johnson, R. Masson, and V. A. Nuzzo. 2017. A regional assessment of white-tailed deer effects on plant invasion. AoB Plants, plx047, <https://doi.org/10.1093/aobpla/plx047>

Ramage B.S., D. J. Johnson, E. Gonzalez-Akre, W. J. McShea, K. J. Anderson-Teixeira, N. A. Bourg, and K. Clay. 2017. Sapling growth rates reveal conspecific negative density dependence in a temperate forest. Ecology and Evolution, 00:1–11. <https://doi.org/10.1002/ece3.3298>

LaManna, J. A., S. A. Mangan, A. Alonso, N. A. Bourg, W. Y. Brockelman, S. Bunyavejchewin, L-W Chang, J-M Chiang, G. B. Chuyong, K. Clay, R. Condit, S. Cordell, S. J. Davies, T. J. Furniss, C. P. Giardina, I. A. U. N. Gunatilleke, C. V. S. Gunatilleke, F. He, R. W. Howe, S. P. Hubbell, C-F Hsieh, F. M. Inman-Narahari, D. Janík, D. J. Johnson, D. Kenfack, L. Korte, K. Král, A. J. Larson, J. A. Lutz, S. M. McMahan, W. J. McShea, H. R. Memiaghe, A. Nathalang, V. Novotny, P. S. Ong, D. A. Orwig, R. Ostertag, G. G. Parker, R. P. Phillips, L. Sack, I-F Sun, J. S. Tello, D. W. Thomas, B. L. Turner, D. M. Vela Díaz, T. Vrška, G. D. Weiblen, A. Wolf, S. Yap, and J. A. Myers. 2017. Plant diversity increases with the strength of negative density dependence at the global scale. Science, 356(6345), 1389-1392.

Erickson, D. L., E. Reed, P. Ramachandran, N. A. Bourg, W. J. McShea and A. Ottesen. 2017. Reconstructing an herbivores diet using a novel DNA mini-barcode for plants. AoB Plants 9 (3) doi: 10.1093/aobpla/plx015

Schuttler, S. G., Parsons, A. W., Forrester, Tavis D., Baker, M. C., McShea, W. J., Costello, Robert and Kays, R. 2016. Deer on the lookout: how hunting, hiking and coyotes affect white-tailed deer vigilance. Journal of Zoology, doi:10.1111/jzo.12416

Forrester T, O'Brien T, Fegraus E, Jansen P, Palmer J, Kays R, Ahumada J, Stern B, McShea W. 2016. An Open Standard for Camera Trap Data. Biodiversity Data Journal 4: e10197. <https://doi.org/10.3897/BDJ.4.e10197>

Gonzalez-Akre, E. B., V. Meakem, C. Y. Eng, A. J. Tepley, N. A. Bourg, W. J. McShea, S. J. Davies and K. J. Anderson-Teixeira. 2016. Patterns of tree mortality in a temperate deciduous forest derived from a large forest dynamics plot. Ecosphere, 7(12) [doi:10.1002/ecs2.1595](https://doi.org/10.1002/ecs2.1595)

- Bu H., F. Wang, W. J. McShea, Z. Lu, D. Wang, and S. Li. 2016. Spatial co-occurrence and activity patterns of mesocarnivores in the temperate forests of Southwest China. PLoS ONE 11. doi:10.1371/journal.pone.0164271
- Liu, F., W. J. McShea and D. Li. 2017. Correlating habitat suitability with landscape connectivity: A case study of Sichuan golden monkey in China. Ecological Modelling, 353: 37-46.
- Forrester, T. D., M. Baker, R. Costello, R. Kays, A. W. Parsons, and W. J. McShea. 2016. Creating advocates for mammal conservation through citizen science. Biological Conservation. <http://dx.doi.org/10.1016/j.biocon.2016.06.025>
- Kays, R., T. D. Forrester, and W. J. McShea. 2016. A community effort to document wildlife: eMammal project expands the impact of citizen scientists. The Wildlife Professional 10:38-40.
- Kays, R., Parsons, A.W., Baker, M.C., Kalies, E., Forrester, T., Costello, R., Rota, C.T., Millspaugh, J. and McShea, W.J. 2016. Does hunting or hiking affect wildlife communities in protected areas? Journal of Applied Ecology. doi:10.1111/1365-2664.12700
- Campana, M. G., M. T. R. Hawkins, L. H. Henson, K. Stewardson, H. S. Young, L. R. Card, J. Lock, B. Agwanda, J. Brinkerhoff, H. D. Gaff, K. M. Helgen, J. E. Maldonado, W. J. McShea and R. C. Fleischer. 2016. Simultaneous identification of host, ectoparasite and pathogen DNA via in-solution capture. Molecular Ecology Resources. DOI: 10.1111/1755-0998.12524
- Shen, X., N. A. Bourg, W. J. McShea, and B. L. Turner. 2016. Long-term effects of white-tailed deer exclusion on the invasion of exotic plants: a case study in a Mid-Atlantic temperate forest. PLoS ONE. 11(3), p.e0151825.
- Martinsen, E. S. N. McInerney, H. Brightman, K. Ferebee, T. Walsh, W. J. McShea, T. D. Forrester, L. Ware, P. H. Joyner, S. L. Perkins, E. K. Latch, M. J. Yabsley, J. J. Schall and R. C. Fleischer. 2016. Hidden in plain sight: Cryptic and endemic malaria parasites in North American white-tailed deer (*Odocoileus virginianus*). Science Advances: 2, DOI:10.1126/sciadv.1501486
- Rota, C. T., C. K. Winkle, R. W. Kays, T. D. Forrester, W. J. McShea, A. W. Parsons, and J. J. Millspaugh. 2016. A two-species occupancy model accommodating simultaneous spatial and interspecific dependence. Ecology 97: 48-53.
- Rota, C. T., M. A. R. Ferreira, R. W. Kays, T. D. Forrester, E. L. Kalies, W. J. McShea, A. W. Parsons, and J. J. Millspaugh. 2016. A multi-species occupancy model for two or more interacting species. Methods in Ecology and Evolution 7:1164-1173.

- McShea, W. J., T. Forrester, R. Costello, Z. He, and R. Kays. 2016. Volunteer-run cameras as distributed sensors for macrosystem mammal research. Journal of Landscape Ecology 31:55-66.
- McShea, W. J., W. M. Healy, and P. Van Deusen. 2015. Trends in mast availability for wild turkey in eastern forests. Proceedings 11<sup>th</sup> National Wild Turkey Symposium, pps. 61-79. National turkey Federation, Edgefield, SC.
- Pei, N., Erickson, D. L., Chen, B, Ge, X., Mi, X., Swenson, N. G., Zhang, J-L, Jones, F. A., Huang, C-L, Ye, W., Hao, Z., Hsieh, C-F, Lum, S., Bourg, N. A., Parker, J. D., Zimmerman, J. K., McShea, W. J., Lopez, I. C., Sun, I. -F, Davies, S. J., Ma, K. and Kress, W. J. 2015. Closely-related taxa influence woody species discrimination via DNA barcoding: evidence from global forest dynamics plots. Scientific Reports, 5 [doi:10.1038/srep15127](https://doi.org/10.1038/srep15127)
- Struebig, M.J., Wilting, A., Gaveau, D.L., Meijaard, E., Smith, R.J., Abdullah, T., Abram, N., Alfred, R., Ancrenaz, M., Augeri, D.M...McShea, W. J. ... and Belant, J.L., 2015. Targeted conservation to safeguard a biodiversity hotspot from climate and land-cover change. Current Biology, 25(3), pp.372-378.
- Anderson-Teixeira, K., J. McGarvey, H. Muller-Landau, J. Park, E. Gonzalez-Akre, V. Herrmann, C. So, N. Bourg, J. Thompson, S. McMahon, and W. J. McShea. 2015. Size-related scaling of tree form and function in a mixed-age forest. Functional Ecology doi: 10.1111/1365-2435.12470
- Wang, F., W. J. McShea, D. Wang and S. Li. 2015. Shared resources between giant panda and sympatric wild and domestic mammals. Biological Conservation 186:319-325.
- Kays, R., R. Costello, T. Forrester, M. C. Baker, A. W. Parsons, E. L. Kalies, G. Hess, J. J. Millspaugh, and W.J. McShea. 2015. Cats are rare where coyotes roam. Journal of Mammalogy 96:981–987. DOI:10.1093/jmammal/gyv100
- Gray, T. N. E., W. J. McShea, A. Koehncke, P. Sovanna and M. Wright. 2015. Artificially deepening natural seasonal waterholes in eastern Cambodia: impact on water retention and use by globally threatened large ungulates and waterbirds. Journal of Threatened Taxa. 17:
- Guan, T., F. Wang, S., Li and W. J. McShea. 2015. Nature reserve requirements for landscape-dependent ungulates: The case of endangered takin *Budorcas taxicolor* in Southwestern China. Biological Conservation 182:63-71.
- Zhang, L., Liu, J., Mcshea, W.J., Wu, Y., Wang, D. and Lü, Z., 2014. The impact of fencing on the distribution of Przewalski's gazelle. The Journal of Wildlife Management, 78: .255-263.

- Bourg, N. A., D. E. Gill, and W. J. McShea. 2015. Fire and canopy removal effects on demography and reproduction in turkeybeard (*Xerophyllum asphodeloides*), a fire-dependent temperate forest herb. Journal of Sustainable Forestry 34: 71-104.
- Malcolm, K., W. J. McShea, D. L. Garshelis, S.-J. Luo, T. R. Van Deelen, F. Liu, S. Li, L. Miao, D. Wang, and J. L. Brown. 2014. Increased stress in Asiatic black bears relates to food limitation, crop raiding, and foraging beyond nature reserve boundaries in China. Global Ecology and Conservation 2:267-276.
- Anderson-Teixeira, K. J., Davies, S. J., Bennett, A. C., Gonzalez-Akre, E. B., Muller-Landau, H. C., Joseph Wright, S., McShea, W. J. ... & Basset, Y. (2015). CTFS-Forest GEO: a worldwide network monitoring forests in an era of global change. Global change biology, 21(2), 528-549.
- Wang F., W. J. McShea, D. Wang, S. Li, Q. Zhao, H. Wang, and Z. Lu. 2014. Evaluating Landscape Options for Corridor Restoration between Giant Panda Reserves. PLoS ONE 9: e105086. doi:10.1371/journal.pone.0105086
- Harris, R. B., D. L. Garshelis, W. J. McShea and D. Wang. 2014 The Qinling Panda Research Project: Its Context and Importance. In A Chance for Lasting Survival by Pan Wenshi, Lü Zhi, Zhu Xiaojian, Wang Dajun, Wang Hao, Long Yu, Fu Dali, and Zhou Xin. Translated by Richard B. Harris., edited by McShea, W.J., R. B. Harris, D. Garshelis, and D. Wang. Smithsonian Institution Scholarly Press.
- Leimgruber, P., W. J. McShea and M. Songer. 2014. Vertical habitat segregation as a mechanism for coexistence in sympatric rodents. Mammalian Biology 79:313-317.
- Johnson, D. J., N. A. Bourg, R. Howe, W. J. McShea, A. Wolf, and K. Clay. 2014. Conspecific negative density-dependent mortality and the structure of temperate forests. Ecology. 95:2493-2503.
- McShea, W. J. 2014. What are the roles for species distribution models in conservation planning? Environmental Conservation 41: 93-96.
- Holm, J. A., J. R. Thompson, W. J. McShea, and N. A. Bourg. 2013. Interactive effects of chronic deer browsing and canopy gap disturbance on forest successional dynamics. Ecosphere, 4(11), Art 144.
- Bourg, N. A., W. J. McShea, J. R. Thompson, J. C. McGarvey, and X. Shen. 2013. Initial census, woody seedling, seed rain and stand structure data for the SCBI SIGEO Large Forest Dynamics Plot. Ecology, 94:2111 and Ecological Archives EO94-195.
- Powell, D., B. Speeg, S. Li, E. Blumer and W. McShea. 2013. An ethogram and activity budget of captive Sichuan takin (*Budorcas taxicolor tibetana*) with comparisons to other Bovidae. Mammalia 77: 391-401.

Chisholm, R. A.,...W. McShea,...(63 co-authors). 2013. Scale-dependent relationships between tree species richness and ecosystem function in forests. Journal of Ecology. doi: 10.1111/1365-2745.12132

Lucas, R. W., R. Salguero-Gómez, D. B. Cobb, B. G. Waring, F. Anderson, W. J. McShea and B. B. Casper. 2013. White-tailed deer (*Odocoileus virginianus*) positively affect the growth of mature northern red oak (*Quercus rubra*) trees. Ecosphere, 4 doi:10.1890/ES13-00036.1

Malcolm, K.D., W.J. McShea , T.R. Van Deelen, H.J. Bacon, F. Liu, S. Putman, X. Zhu, and J.L. Brown. 2013. Analyses of fecal and hair glucocorticoids to evaluate short- and long-term stress and recovery of Asiatic black bears (*Ursus thibetanus*) removed from bile farms in China. General and Comparative Endocrinology 185:97-106.

Lynam, A. J., K. E. Jenks, N. Tantipisanuh, W. Chutipong, D. Ngoprasert, G. A. Gale, R. Steinmetz, R. Sukmasuang, N. Bhumpakphan, L. I. Grassman, Jr., P. Cutter, S. Kitamura, D. H. Reed, M. C. Baker, W. McShea , N. Songsasen, and P. Leimgruber . 2013. Terrestrial activity patterns of wild cats as revealed from camera trapping. The Raffles Bulletin of Zoology 61: 407-415.

McGarvey J. C., N. A. Bourg, J. R. Thompson, W. J. McShea and X. Shen. 2013. Effects of twenty years of deer exclusion on woody vegetation at three life history stages in a Mid-Atlantic temperate deciduous forest. Northeast Naturalist, 20:451-468.

Lovely, K. R., W. J. McShea, N. W. Lafon, and D. E. Carr. 2013. The influence of land parcelization on deer population densities in a rural county of Virginia. Wildlife Society Bulletin. 37:360-367.

Duckworth, J. W.,... W. J. McShea,...(25 co-authors). 2012. Why South-East Asia should be the world's priority for averting imminent species extinctions, and a call to join a developing cross-institutional programme to tackle this urgent issue. Sapiens 5.2.

Erb, P. L., W. J. McShea and R. P. Guralnick. 2012. Anthropogenic influences on macro-level mammal occupancy in the Appalachian Trail corridor. PLoS ONE 7: e42574. doi:10.1371/journal.pone.0042574

Guan, T-P, B. Ge, W.J. McShea, S. Li, Y. Song, and C. M. Stewart. 2012. Seasonal migration by a large forest ungulate: a study on takin (*Budorcas taxicolor*) in Sichuan Province, China. European Journal of Wildlife Research, 59: 81-91.

Guan, T. B. Ge, D. M. Powell, W. J. McShea, S. Li, and Y. L. Song. 2012. Does a temperate ungulate that breeds in summer exhibit rut-induced hypophagia? Analysis of time budgets of male takin (*Budocorcus taxicolor*) in Sichuan, China. Behavioural Processes 89:286-291.

- Li, S., W. J. McShea, D. Wang, Z. Lu and X. Gu. 2012. Gauging the impact of management expertise on the distribution of large mammals across protected areas. Diversity and Distributions. 18: 1166–1176.
- Li, S., W. J. McShea, D. Wang, J. Huang, and L. Shao. 2012. A direct comparison of camera-trapping and sign transects for monitoring wildlife in a giant panda reserve, China. Wildlife Society Bulletin. 36: 538–545
- Song, Y.L., B. M. Ge, T. P. Guan, D. Powell, and W. J. McShea. 2011. Effects of the earthquake on wildlife behavior: a case study of takin (*Budorcas taxicolor*) in Tangjiahe National Nature Reserve, China. Ecological Research. 26:217-223.
- McShea, W. J. 2012. Ecology and management of white-tailed deer in a changing world. Annals of the New York Academy of Sciences. 1249:45-56.
- Shen, X., S. Li, N. Chen, S. Li, W. J. McShea, and Z. Lu. 2012. Does science replace traditions? Correlates between traditional Tibetan culture and local bird diversity in Southwest China. Biological Conservation 145: 160-170.
- Gratwicke, B., M. Evans, E. H. Campbell Grant, J. Greathouse, W. J. McShea, N. Rotzel and R. C. Fleischer. 2011. Low prevalence of *Batrachochytrium dendrobatidis* detected in Appalachian salamanders from Warren County, Virginia, USA. Herpetological Review 43:217-219.
- Swaigood, R. R., F. Wei, W. J. McShea, D. E. Wildt, A. J. Kouba, and Z. Zhang. 2011. Can science save the giant panda (*Ailuropoda melanoleuca*)? Unifying science and policy in an adaptive management paradigm. Integrative Zoology. 6:290-297.
- McShea, W. J., C. Stewart, L. Kearns, and S. Bates. 2011. Road bias for deer density estimates at two National Parks in Maryland. Wildlife Society Bulletin. 35:177-184.
- McShea, W. J. and S. J. Davies. 2011. Seasonally dry forests of tropical Asia: an ecosystem adapted to seasonal drought, frequent fire, and human activity. Pages 1-8 *In* The Ecology and Conservation of Seasonally Dry Forests in Asia. Edited by W. J. McShea, S. J. Davies and N. Bhumpakphan. Smithsonian Scholarly Press.
- Rappole, J. H., Nay Myo Swe, Myint Aung, and W. J. McShea. 2011. Seasonality in avian community of a dipterocarp monsoon forest and related habitats in Myanmar's Central Dry Zone. Pages 131-150 *In* The Ecology and Conservation of Seasonally Dry Forests in Asia. Edited by W. J. McShea, S. J. Davies and N. Bhumpakphan. Smithsonian Scholarly Press.
- McShea, W. J. and M. C. Baker. 2011. Tropical deer in the seasonal dry forests of Asia; ecology, concerns and potential for conservation. Pages 165-178 *In* The Ecology and Conservation of Seasonally Dry Forests in Asia. Edited by W. J. McShea, S. J. Davies and N. Bhumpakphan. Smithsonian Scholarly Press.

Bhumpakphan, N. and W. J. McShea. 2011. Distribution and ecology of banteng and gaur in dry forests of Thailand. Pages 179-195 *In The Ecology and Conservation of Seasonally Dry Forests in Asia*. Edited by W. J. McShea, S. J. Davies and N. Bhumpakphan. Smithsonian Scholarly Press.

Liu, F. W. J. McShea, D. L. Garshelis, X. Zhu, D. Wang, and L. Shao. 2011. Human-wildlife conflicts influence attitudes but not necessarily behaviors: Factors driving the poaching of bears in China. *Biological Conservation* 144: 538-547.

Li, S., D. Wang, X. Gu, and W. J. McShea. 2010. Beyond pandas, the need for a standardized monitoring protocol for large mammals in Chinese Nature Reserves. *Biodiversity and Conservation* 19: 3195-3206.

Li, S., W. J. McShea, D. Wang, L. Shao, and X. Shi. 2010. The use of infrared-triggered cameras for surveying phasianids in Sichuan Province, China. *IBIS* 152: 299-309.

Heckel, C. D., N. A. Bourg, W. J. McShea and S. Kalisz. 2010. Nonconsumptive effects of a generalist ungulate herbivore drive decline of unpalatable forest herbs. *Ecology* 91:319-326.

McShea, W. J. C. Stewart, L. Peterson, P. Erb, R. Stuebing and B. Gimán. 2009. The importance of secondary forest blocks for terrestrial mammals within an *Acacia*/secondary forest matrix in Sarawak, Malaysia. *Biological Conservation* 142: 3108-3119.

Liu, F., W. J. McShea, D. L. Garshelis, X. Zhu, D. Wang, J. Gong, and Y. Chen. 2009. Spatial distribution as a measure of conservation needs: an example with Asiatic black bears in Southwestern China. *Biodiversity and Distribution* 15: 649-659.

Garshelis, D. L., H. Wang, D. Wang, X. Zhu, S. Li, and W. J. McShea. 2008. Do revised giant panda estimates aid in their conservation? *Ursus* 19:168-176.

McShea, W. J., C. M. Stewart, L. J. Kearns, S. Liccioli, and D. Kocka. 2008. Factors affecting autumn deer/vehicle collisions in a rural Virginia county. *Human-Wildlife Conflicts* 2: 110-121.

McShea, W. J., W. M. Healy, P. Devers, T. Fearer, F. H. Koch, D. Stauffer, and J. Waldon. 2007. Forestry Matters: Decline of oaks will impact wildlife in hardwood forests. *Journal of Wildlife Management* 71: 1717-1728.

Stewart, C. M., W. J. McShea, and B. P. Piccolo. 2007. The impact of white-tailed deer foraging on agricultural resources at 3 National Historical Parks in Maryland. *Journal of Wildlife Management*. 71:1525-1530.

Giman, B., R. Steubing, N. Megum, W. J. McShea, and C. Stewart. 2007. A camera trapping inventory for mammals within a mixed use planted forest in Sarawak. The Raffles Bulletin of Zoology 55: 209-215.

Buij, R., W. J. McShea, P. Campbell, M. E. Lee, F. Dallmeier, S. Guimondou, L. Mackaga, N. Guiseougou, S. Mboumba, J. E. Hines, J. D. Nichols, and A. Alonso. 2007. Patch-occupancy models indicate human activity as major determinants of forest elephant *Loxodonta cyclotis* seasonal distribution in an industrial corridor in Gabon. Biological Conservation 135: 189-201.

Wang D., Li Sheng, W. J. McShea, and Li Ming Fu. 2006. Use of Remote-trip Cameras for Wildlife Surveys and Evaluating the Effectiveness of Conservation Activities at a Nature Reserve in Sichuan Province, China. Environmental Management 28:942-951.

O'Brien, C.J., W. McShea, S. Guimondou, P. Barriere, and M. Carleton. 2006. Terrestrial small mammals (Soricidae and Muridae) from the Gamba Complex protected areas, Gabon: species composition and comparison of sampling techniques. Pages 353-363. In Alonso, A, M. E. Lee, P. Campbell, O. S. G. Pauwels and F. Dallmeier, eds. Gamba, Gabon: Biodiversity of an equatorial African rainforest. Bulletin of the Biological Society of Washington, No. 12

Bourg, N. A., W. J. McShea, and D. E. Gill. 2005. Putting a cart before the search: successful habitat prediction for a rare forest herb. Ecology 86: 2793-2804.

Koy, K., W. J. McShea, P. Leimgruber, B. N. Haack, and M. Aung. 2005. Percent canopy-cover —using Landsat imagery to delineate habitat for Myanmar's endangered Eld's deer (*Cervus eldi*). Animal Conservation 8:289-296.

McShea, W. J., K. Koy, T. Clements, A. Johnson, C. Vongkhamheng, and M. Aung. 2005. Finding a needle in the haystack: Regional analysis of suitable Eld's deer (*Cervus eldi*) forest in Southeast Asia. Biological Conservation 125:101-111.

McShea, W. J. 2005. Forest Ecosystems without Carnivores: When ungulates rule the world. Pages 138-153 In Large Carnivores and the Conservation of Biodiversity. J. C. Ray, K. Redford, R. S. Stenbeck, and J. Berger editors. Island Press.

Vega Rivera, J. H., W. J. McShea, and J. H. Rappole. 2003. Comparison of breeding and post-breeding movements and habitat requirements for the scarlet tanager. The Auk 120: 632-644.

Demaria, M. R., W. J. McShea, K. Koy, and N. O. Maceira. 2003. Pampas deer conservation with respect to habitat loss and protected area considerations in San Luis, Argentina. Biological Conservation 115: 121-130.

- McShea, W. J., J. Pagels, J. Orrock, E. Harper, and K. Koy. 2003. Mesic deciduous forest as patches of small mammal richness within an Appalachian mountain forest. Journal of Mammalogy 84:627-643.
- Leimgruber, P., W. J. McShea, and G. D. Schnell. 2002. Effects of scale and logging on landscape structure in a forest mosaic. Environmental Monitoring and Assessment 74:141-166.
- McShea, W. J., and W. M. Healy. 2002. Oaks and acorns as the basis for ecosystem management. Pages 1-12 In Oak Forest Ecosystems: ecology and management for wildlife. Edited by William J. McShea and W. M. Healy. John Hopkins University Press.
- Healy, W. M., and W. J. McShea. 2002. Goals and guidelines for ecosystem management of oak forests. Pages 333-340 In Oak Forest Ecosystems: ecology and management for wildlife. Edited by William J. McShea and W. M. Healy. John Hopkins University Press.
- Tomás, W. M., W. J. McShea, G. H. B. de Miranda, J. R. Moreira, G. Mourão and P. A. L. Borges. 2001. Survey of a pampas deer, *Ozotoceros bezoarticus leucogaster* (Artiodactyla, Cervidae), population in the Pantanal wetland, Brazil, using the distance sampling technique. Animal Biodiversity and Conservation, 24:101-106.
- Leimgruber, P., W. J. McShea, C. J. Brookes, Bolor-Erdene, C. Wemmer, and C. Larson. 2001. Spatial patterns in relative primary productivity and gazelle migration in the Eastern Steppes of Mongolia. Biological Conservation. 102:205-212.
- Fletcher, J. D., L. A. Shipley, W. J. McShea, and D. L. Shumway. 2001. Wildlife herbivory and rare plants: the effects of white-tailed deer, rodents and insects on growth and survival of Turk's Cap Lily. Biological Conservation. 101:229-238.
- McShea, W. J., M. Aung, D. Poszig, C. Wemmer, and S. Monfort. 2001. Forage, habitat use and sexual segregation by a tropical deer species (*Cervus eldi* thamin) in a dipterocarp forest. Journal of Mammalogy 82:848-857.
- Aung, M., W. J. McShea, S. Htung, A. Than, T. M. Soe, S. Monfort, and C. Wemmer. 2001. Ecology and social organization of a tropical deer (*Cervus eldi* thamin). Journal of Mammalogy 82:836-847.
- Fletcher, J. D., W. J. McShea, L. A. Shipley, and D. Shumway. 2001. Use of common forest forbs to measure browsing pressure by white-tailed deer (*Odocoileus virginianus* Zimmerman) in Virginia, USA. Natural Areas Journal. 21:172-176.
- Vega Rivera, J. H., C. A. Haas, J. H. Rappole, and W. J. McShea. 2000. Parental care of fledgling Wood Thrushes. Wilson Bulletin 112:233-237.

- Murray, S., S. L. Monfort, L. Ware, W. J. McShea and M. Bush. 2000. Anesthesia in female white-tailed deer using Telazol and Xylazine. Journal of Wildlife Diseases. 36:670-675.
- Orrock, J. L., J. L. Pagels, W. J. McShea, and E. K. Harper. 2000. Predicting presence and abundance of a small mammal species: the effect of scale and resolution. Ecological Applications. 10:1356-1366.
- McShea, W. J. and J. H. Rappole. 2000. Managing the abundance and diversity of breeding bird populations through manipulation of deer populations. Conservation Biology 14:1161-1170.
- McShea, W. J. 2000. The influence of acorn crops on annual variation in rodent and bird populations. Ecology 81:228-238.
- McShea, W. J., E. G. Reese, T. W. Small, and P. J. Weldon. 2000. An experiment on the ability of free-ranging turkey vultures (Cathartes aura) to locate carrion by chemical cues. Chemoecology 10:49-50.
- Orrock, J. L., E. K. Harper, J. F. Pagels, and W. J. McShea. 1999. Additional records of the rock vole, Microtus chrotorrhinus, in Virginia. Banisteria 14:36-38.
- Vega-Rivera, J. H., W. J. McShea, J. H. Rappole, and C. A. Haas. 1999. Postbreeding season movements and habitat use by adult wood thrushes in Northern Virginia. Auk 116: 458-466.
- McShea, W. J., P. Leimgruber, M. Aung, S. Monfort, and C. Wemmer. 1999. Range collapse of a tropical cervid (Cervus eldi) and determining the extent of remaining habitat. Animal Conservation 2:173-183.
- Vega-Rivera, J. H., W. J. McShea, J. H. Rappole, and C. A. Haas. 1998. Pattern and chronology of prebasic molt for the wood thrush and its relation to reproduction and migration departure. Wilson Bulletin 110: 384-392.
- Smallwood, P. D., M. A. Steele, E. Ribbens, and W. J. McShea. 1998. Detecting the effects of seed hoarders on the distribution of tree species: grey squirrels (Sciurus carolinensis) and oaks (Quercus spp.) as a model system. Pages 250-272 In Ecology and Evolutionary Biology of Tree Squirrels. M. A. Steele, J. E. Merritt, and D. A. Zegers eds. Virginia Museum of Natural History Press.
- Vega-Rivera, J. H., J. H. Rappole, W. J. McShea and C. A. Haas. 1998. Wood Thrush postfledgling movements and habitat use in Northern Virginia. Condor 100:69-78.
- McShea, W. J. and J. H. Rappole. 1997. The science and politics of managing deer within a protected area. Wildlife Society Bulletin 25:443-446.

McShea, W. J., and J. H. Rappole. 1997. Variable song rates for three species of passerines, and implications for estimating bird populations. Journal of Field Ornithology 68:367-375.

McShea, W. J., S. L. Monfort, S. Hakim, J. Kirkpatrick, I. Liu, J. W. Turner, Jr., L. Chassey, and L. Munson. 1997. The effect of immunocontraception on the behavior and reproduction of white-tailed deer. Journal of Wildlife Management 41:560-569.

McShea, W. J., H. B. Underwood and J. H. Rappole. 1997. Deer management and the concept of overabundance. pp. 1-7 In The Science of Overabundance: Deer ecology and population management. W. J. McShea, H. B. Underwood, and J. H. Rappole, eds. Smithsonian Institution Press.

McShea, W. J. and J. H. Rappole. 1997. Herbivores and the ecology of forest understory birds. pp. 298-309 In The Science of Overabundance: Deer ecology and population management, W. J. McShea, H. B. Underwood, and J. H. Rappole, eds. Smithsonian Institution Press.

Jones, C., W. J. McShea, M. J. Conroy and T. H. Kunz. 1996. Capturing Mammals. pp. 115-156 In Measuring and Monitoring Biological Diversity: Standard Methods for Mammals. D. E. Wilson, F. R. Cole, J. D. Nichols, R. Rudran and M. S. Foster, eds. Smithsonian Institution Press.

Wemmer, C., T. H. Kunz, G. Lundie-Jenkins, and W. J. McShea. 1996. Mammalian Sign. pp. 157-176 In Measuring and Monitoring Biological Diversity: Standard Methods for Mammals. D. E. Wilson, F. R. Cole, J. D. Nichols, R. Rudran and M. S. Foster, eds. Smithsonian Institution Press.

Hakim, S., W. J. McShea, and J. R. Mason. 1996. The attractiveness of a liquid bait to white-tailed deer in the Central Appalachian Mountains, Virginia, USA. Journal of Wildlife Diseases 32:395-398.

McShea, W. J., M. V. McDonald, E. S. Morton, R. Meier, and J. H. Rappole. 1995. Long-term trends in habitat selection by Kentucky Warblers. Auk 112:375-381.

Leimgruber, P., W. J. McShea and J. H. Rappole. 1994. Predation on artificial nests in large forest blocks. Journal of Wildlife Management 58:255-261.

McShea, W. J. and G. Schwede. 1993. Variable acorn crops, and the response of white-tailed deer and other mast consumers. Journal of Mammalogy 74:999-1006.

McShea, W. J., C. Wemmer, and M. Stuwe. 1993. Conflict of interests: A public hunt at the National Zoo's Conservation and Research Center. Wildlife Society Bulletin 21:492-497.

Schwede, G., H. Hendrichs, and W. McShea. 1993. Social and spatial organization of female white-tailed deer, Odocoileus virginianus, during the fawning season. Animal Behaviour 45:1007-1017

Rappole, J. H., W. J. McShea, and J. Vega-Rivera. 1993. Evaluation of two survey methods in upland avian breeding communities. Journal of Field Ornithology 64:55-70.

Gould, E., W. McShea and T. Grand. 1993. Function of the star in the star-nosed mole (Condylura cristata). Journal of Mammalogy 74:108-117.

McShea, W. J. and J. H. Rappole. 1992. White-tailed deer as keystone species within forest habitats of Virginia. Virginia Journal of Science 43:177-186.

McShea, W. J. and A. Gilles. 1992. A comparison of traps and fluorescent powder to describe foraging for mast by Peromyscus leucopus. Journal of Mammalogy 73:218-222.

McShea, W. J. and D. M. Madison. 1991. Alternate approaches to the study of small mammal dispersal: insights from radiotelemetry. Pp. 319-332 In Animal Dispersal: Small mammals as a model. ed. by W. Z. Lidicker Jr. and N. S. Stenseth. Chapman & Hall Publ.

McShea, W. J. 1990. Predation and its potential impact on the behavior of microtine rodents. Pp. 101-110 In Social Systems and Population Cycles in Voles. ed. by R. H. Tamarin, R. Ostfeld, S. Pugh and G. Bujalska. Birkhauser Verlag. 229 pp.

McShea, W. J. 1990. Social tolerance and proximate mechanisms of dispersal between overwintering groups of meadow voles (Microtus pennsylvanicus). Animal Behaviour 39:346-351.

McShea, W. J. 1989. Reproductive synchrony and home range size in a territorial microtine. Oikos 56:182-186.

McShea, W. J. and D. M. Madison. 1989. Measurements of reproductive traits in a field population of meadow voles. Journal of Mammalogy. 70:132-141.

Madison, D. M. and W. J. McShea. 1987. Seasonal changes in reproductive tolerance, spacing and social organization in meadow voles: a microtine model. American Zoologist. 27:899-908.

McShea, W. J. and D. M. Madison. 1987. Partial mortality of nestling meadow voles. Animal Behaviour. 35:1253-1255.

McShea, W. J. and D. M. Madison. 1986. Sex ratio shifts within litters of meadow voles (Microtus pennsylvanicus). Behavioral Ecology and Sociobiology 18: 431-436.

McShea, W. J. and D. M. Madison. 1984. Communal nesting between reproductively active females in a spring population of Microtus pennsylvanicus. Canadian Journal of Zoology. 62:344-346.

McShea, W. J. and E. N. Francq. 1984. Microhabitat selection by Peromyscus leucopus. Journal of Mammalogy. 65:675-678.

Madison, D. M., R. W. FitzGerald, and W. J. McShea. 1984. Dynamics of social nesting in overwintering voles (Microtus pennsylvanicus): possible consequences for population cycling. Behavioral Ecology and Sociobiology. 5:9-18.

## **ADDITIONAL PUBLICATIONS**

LaManna, J.A., Mangan, S.A., Alonso, A., Bourg, N.A., Brockelman, W.Y., Bunyavejchewin, S., Chang, L.W., Chiang, J.M., Chuyong, G.B., Clay, K... McShea, W. J. ... and Cordell, S., 2018. Response to Comment on "Plant diversity increases with the strength of negative density dependence at the global scale". Science, 360(6391), p.eaar5245.

Zhao, J. and W. McShea. 2018. Behind eMammal's Success: A Data Curator With A Data Standard. Journal of eScience Librarianship, 7(3) [doi:10.7191/jeslib.2018.1154](https://doi.org/10.7191/jeslib.2018.1154)

McShea W. J., B. Pukazhenthil and K. Rodriguez-Clark. 2018. A review of captive breeding options being considered by Parks Canada for Woodland Caribou (*Rangifer tarandus caribou*). Jasper National Park Scientific Committee. 21 pp.

Kays, R., Forrester, T. and McShea, W., 2016. A Community Effort to Document Wildlife. The Wildlife Professional.

Gonzalez-Akre, E., McShea, W., Bourg, N., Anderson-Teixeira, K. 2015. Leaf traits data (SLA) for 56 woody species at the Smithsonian Conservation Biology Institute-ForestGEO Forest Dynamic Plot. Front Royal, Virginia, USA. [Data set]. Version 1.0. ([www.try-db.org](http://www.try-db.org)).

Costello, R., W. J. McShea, T. D. Forrester, A. W. Parsons, S. Schuttler, M. C. Baker-Whitton, and R. Kays. 2017. Citizen Science and Biophilic Cities; the great experiment. Biophilic Cities Journal 1: 22-27.

He, Z., Kays, R., Zhang, Z., Ning, G., Huang, C., Han, T.X., Millspaugh, J., Forrester, T. and McShea, W., 2016. Visual informatics tools for supporting large-scale collaborative

wildlife monitoring with citizen scientists. IEEE Circuits and Systems Magazine, 16: 73-86.

McShea, W. J. 2015. 5 Myths about Giant Pandas. Washington Post. August 28, 2015 [https://www.washingtonpost.com/opinions/five-myths-about-pandas/2015/08/28/d4a96b1c-4bfe-11e5-bfb9-9736d04fc8e4\\_story.html](https://www.washingtonpost.com/opinions/five-myths-about-pandas/2015/08/28/d4a96b1c-4bfe-11e5-bfb9-9736d04fc8e4_story.html)

Harris, R.B., Brook, S.M. and McShea, W.J., 2015. *Cervus albirostris*. The IUCN Red List of Threatened Species 2015: e. T4256A61976756.

Gray, T.N.E., Brook, S.M., McShea, W.J., Mahood, S., Ranjitsingh, M.K., Miyunt, A., Hussain, S.A. and Timmins, R., 2015. *Rucervus eldii*. The IUCN Red List of Threatened Species, 2015.

Rejou-Mechain, M., Muller-Landau, H. C., Detto, M., Thomas, S. C., Toan, T. L., Saatchi, S.... S., McShea, W. J.... & Brockelman, W. Y. 2014. Local spatial structure of forest biomass and its consequences for remote sensing of carbon stocks. Biogeosciences Discussions, 11: 5711.

Jansen, P.A., Forrester, T.D. and McShea, W.J., 2014. Protocol for camera-trap surveys of mammals at CTFs-ForestGEOsites. Smithsonian Tropical Research Institute. Ancon. 35 pp.

Chutipong, W., Tantipisanuh, N., Ngoprasert, D., Lynam, A.J., Steinmetz, R., Jenks, K.E., Grassman Jr, L.I., Tewes, M., Kitamura, S., Baker, M.C. and McShea, W., 2014. Hala-Bala Wildlife Research Station. Wildlife Research Division.96-136.

Tantipisanuh N., Chutipong W., Ngoprasert D., Lynam A. J., Steinmetz R., Sukmasuang R., Jenks K. E., Grassman Jr. L. I., Cutter P., Kitamura S., Baker M. C., McShea W., Bhumpakphan N., Gale G. A. & Reed D. H. 2014. Recent distribution records, threats and conservation priorities of small cats in Thailand. IUCN Cat News Special Issue: 8, 31-35.

Baker, M.C., W. J. McShea, N. Bhumpakphan, R. Sukmasuang, N. Sisuruk, K. Siripattaranukul and J.G. Howard. 2012. A Spotted Linsang *Prionodon pardicolor* observation from eastern Thailand. Small Carnivore Conservation 47: 58-59.

McShea, W. J. and S. Gonzalez. 2012. Deer Abundance: it's not what it seems. Zooquaria 78: 12-15

Li M., Li S., Wang D., McShea W. J. and Chen L. 2011. The Daily Activity Patterns of Takin *Budorcas taxicolor* in Winter and Spring at Tangjiahe Nature Reserve, Sichuan Province. Sichuan Journal of Zoology, 30: 850-855.

Nugent, G. ,W. J. McShea, J. Parkes, S. Woodley, J. Waithaka, J.Moro, R. Gutierrez,

- C. Azorit, F. Mendez Guerrero, W. T. Flueck and J. M. Smith-Flueck. 2011. Policies and management of overabundant deer (native or exotic) in protected areas. Animal Production Science 51:384-389.
- Kocka, D. and B. McShea. 2011. Big cats in Virginia: the facts ain't lion. Virginia Wildlife February 2011, 19-21.
- Li, S., D. Wang, Z. Lu, and W. J. McShea. 2010. Cats living with Pandas: the status of wild felids within giant panda range, China. IUCN Cat News. 52:20-23.
- McShea, B. and S. Gonzalez. 2009. Deer: An expanded network and proposed regional Task Forces to meet conservation needs. Species 50:21.
- Chapter editor for: Vogliotti, A., D. M. Varela, A. Andriolo. 2010. Camera Traps. In: Duarte, J.M.B. and Gonzalez, S. (Eds.) Neotropical Cervidology. pp. 296-305. IUCN/FUNEP, Gland/Jaboticabal.
- Li Sheng, Wang Dajun & W. J. McShea. 2008. The Noisy World in the Silent Forest. Chinese National Geography 575: 86-105. (In Chinese)
- Cooch, E, C. Haney, T. O'Meara, J. Edwards, and W. J. McShea. 2007. Patuxent Wildlife Research Center, 5-year strategic review. Strategic Research Program Review. Patuxent Wildlife Research Center, Patuxent Md.
- Giman, B., N. Megom, W. McShea, and C. Stewart. 2007. Conservation of small carnivores in planted forest. Proceedings of the Regional Conference of Biodiversity Conservation in Tropical Planted Forests in Southeast Asia. Pages 1-10. Grand Perfect Snd. Bhd. Bintulu, Sarawak.
- Monfort, S. L., W. J. McShea, and C. M. Wemmer. Eld's deer (or Brow-antlered deer, Sangai or Thamin) Cervus eldi. In Mammals of South Asia, edited by A. J. T. Johnsingh. Island Press. (In Press)
- McShea, W. J. 2006. Smithsonian's CRC Monitors Change: A restored Avtex site welcomes gradual wildlife recovery. Avtex Dispatch 5: 4.
- Hallam, C.D., W. J. McShea, S. Ounmany, A. J. Johnson, S. Nouansyvong, and R. N. Stenhouse. 2006. Management Plan for The Eld's Deer Sanctuary, Xonbuly District, Savannakhet Province, Lao PDR: 2006-2011. Wildlife Conservation Society, Lao Program Office, Vientiane, Peoples Democratic Republic of Laos. 55 pages.
- McShea, W. J. and M. Songer. 2005. Saving Giant Pandas, One Person at a Time. ZooGoer Magazine 34:16-17.
- McShea, W. J., X. Zhu, and D. Garshelis. 2005. China's Black Bears. Earthwatch Foundation. 38 pp.

- McShea, W.J. 2004. Conservation and restoration of Eld's Deer. IUCN Deer Specialist Group Newsletter 19:25-26. <http://iibce.edu.uy/citogenetica/deer/en8.ht>
- McShea, W. J. 2002. Mammals and humans: Field techniques for studying mammals. Grzimek's Animal Life Encyclopedia, Volume 13. Thomson Gale Publishing, Chicago, IL.
- Churchill, J. L., W. J. McShea and R. Reynolds. 2002. A classification model for identifying Virginia bats by search-phase echolocation calls using discriminant function analysis. Virginia Department of Game and Inland Fisheries, Richmond, VA. 42 pp.
- McShea, W. J. and M. Aung. Status of thamin (Cervus eldi) in Myanmar. 2001. Pages 13-15, Global herdbook of Eld's deer. Edited by N. Manchar and C. Mauget. Museum National d'Histoire Naturelle, Paris, France.
- McShea, W. J. 2000. Interactions of deer, birds and plants in the Shenandoah National Park. Pp. 33-36. *In* Proceedings of the Conference on The Impact of Deer on the Biodiversity and Economy of the State of Pennsylvania. Pennsylvania Audubon Society, Harrisburg, PA.
- McShea, W. J. 1999. Review of Geist, V. 1998. Deer of the World: Their Ecology, Behavior, and Evolution. Stackpole Books. Arctic 54:415-416.
- McShea, W. J. 1999. Survey report on potential of Mahamyaing region for status as a protected area. Forest Department, Yangon, Union of Myanmar. 12 pp.
- McShea, W. J., and J. Buff. 1999. Measuring Biodiversity: A Forest Ecology Manual for Teachers. Smithsonian Institution, Conservation and Research Center.
- McShea, W. J., P. Leimgruber, J. Waldon, and D. Morton. 1997. GIS and Remote Sensing for Wildlife Managers: A technical manual to the use of Geographical Information Systems in conservation and wildlife management. Smithsonian Institution, Conservation and Research Center.
- Stuwe, M. and W. J. McShea. 1996. Biodiversity Monitoring Training Manual for Technical Officers in Vietnam National Parks and Reserves. GEF Project, Hanoi, Vietnam, 45 pp.
- Monfort, S. and W. McShea. 1995. Report on status of brow-antlered deer (Cervus eldi) within Chatthin Wildlife Sanctuary. Forest Department, Yangon, Union of Myanmar. 28 pp.
- McShea, W. J. 1993. Ecology of breeding birds within forest communities. Audubon Naturalist, 19:12-14.

- McShea, W. J. 1992. The small mammal community within Mahazat As Said: A preliminary study of its composition, distribution and richness. National Wildlife Research Center, Taif, Saudi Arabia. 20 pp.
- McShea, W. J. 1992. White-tailed deer and forest communities. *Arbor Vitea*, 3:12.
- McShea, W. J. 1992. Eggknapping at CRC. *Zoogoer*, 21:29.
- McShea, W. J. and J. Rappole. 1992. Ecology of breeding birds within continuous forest tracts. *Neotropical Migratory Bird Conservation Program Newsletter*, 2:21.
- Leimgruber, P. and W. McShea. 1991. Do Peromyscus prey on bird eggs? *Peromyscus Newsletter*, 12:31-32.
- McShea, W. J. 1990 through 2000. Shenandoah Wildlife. Earthwatch Foundation. 44 pp.
- McDonald, M. V. and W. J. McShea. 1990. Tulip tree-hickory forest. *Journal of Field Ornithology Suppl.* 60:45-46.
- McShea, W. J., L. Hartman, J. Blew, S. Mabey. 1989. Breeding Bird Census: Tulip Tree-Hickory Forest. *Journal of Field Ornithology Suppl.* 60:32.
- Mabey, S., W. J. McShea, J. Blew, L. Hartman. 1989. Breeding Bird Census: Young Black Locust Shrubland. *Journal of Field Ornithology Suppl.* 60:54.
- Madison, D. M., R. W. FitzGerald, and W. J. McShea. 1983. Movement of meadow voles in winter: implications for vole management in orchard habitat. In R. E. Byers (editor), *Proceedings of the Seventh Eastern Pine and Meadow Vole Symposium*, Harpers Ferry, West Virginia. 18 pp.
- McShea, W. J. 1985. Influences on the postpartum behavior of female meadow voles within a natural population. Dissertation, State University of New York, Binghamton.
- Madison, D. M., R. W. FitzGerald and W. J. McShea. 1985. A user's guide to the successful radiotracking of small rodents in the field. pp. 28-39 In F. M. Long (editor), *Proceedings of the Fifth International Conference on Wildlife Biotelemetry*. Laramie, Wyoming.
- McShea, W. J. 1981. Arboreal behavior within a population of Peromyscus leucopus. Thesis, University of New Hampshire, Durham.

## **PROFESSIONAL SOCIETIES**

American Society of Mammalogists  
 Society for Conservation Biology  
 IUCN/SSC

Ecological Society of America  
The Wildlife Society

### **TEACHING EXPERIENCE (Last 10 years)**

Modules in Deer Ecology; Smithsonian/Mason School of Conservation Fall and Spring 2013, 2014, 2015, 2016, 2017  
 Field Techniques in Conservation Biology; Edith Cowan University, Perth, Australia (at SCBI) July 2014  
 Small Carnivore Survey Techniques, Tapraya National Park, Thailand, November 3-8, 2009.  
 Community-based Conservation of Eld's Deer, Savvanakhet Province, Lao PDR, April 2003, 2004. January 2005  
 Large Mammal Survey Techniques, Tangjiahe Panda Reserve, October 2003, May 2004, June 2005, June 2006, April 2007, March 2008, March 2009  
 Bear Ecology and Radiotelemetry Workshop, Sichuan Province, November 2002 – 2004, October 2005- 2007, August 2008  
 GIS and Remote Sensing for Panda Reserve Managers: Wolong Panda Reserve, June 2001; Tangjiahe Panda Reserve, May 2002  
 Innovations in Conservation Science (Module), Department of Biology, George Mason University, Fairfax, VA, Fall 2000, Spring 2003- 2010  
 Field Techniques in Conservation Biology; Department of Biology, University of Pennsylvania, Spring 1993-2000; Summer 2002; Spring 2003 - 2010  
 Wildlife Management Techniques, Ulaan Baator, Mongolia, October 1999; Tangjiahe, China, October 2001  
 IUCN Deer Specialist Group, Census and Survey Techniques for Tropical Deer Populations; Mata Grosso de Sol, Brazil, December 1998, November 1999, November 2000  
 Secondary School Teacher Training: Forest Ecology Module; Conservation and Research Center, Front Royal, VA, September 1998, June 1999, April 2000, June 2002, June 2003, June 2006, July 2007-2009  
 GIS and Remote Sensing for Wildlife Managers; Conservation and Research Center, Front Royal, VA, June 1997, January 1998, September 1998, February 1999, December 1999, April 2000, December 2000

### **GRADUATE STUDENT ADVISOR**

#### **Current**

Justin Cooper, Master's, George Mason University  
 Olivia Cosby, Master's, University of Wisconsin

#### **Past**

Hongliang Bu, PhD, Peking University  
 Amy Johnson, PhD, George Mason University  
 Megan Baker, Master's, George Mason University  
 Wang Fang, PhD, Peking University

Karl Malcolm, PhD, University of Wisconsin  
 Peter Erb, Master's, University of Colorado  
 Guan Tian Pei, PhD, Beijing Normal University  
 Heather Lessig, Master's, Virginia Tech University  
 Liu Fang, PhD, Peking University  
 Li Sheng, PhD, Peking University  
 Andrew Trent, Master's, Virginia Tech University  
 Carrie O'Brien, Master's, Utah State University  
 Darl Fletcher, Master's, University of Maryland  
 Kevin Koy, Master's, George Mason University  
 Andre Gilles, Master's, University of Kiel, Germany  
 Tyson Walker, Master's, Virginia Commonwealth University  
 John Orrock, Master's, Virginia Commonwealth University  
 Kim Korth, Master's, Virginia Commonwealth University  
 Rhonda Houser, Master's, Virginia Commonwealth University  
 Peter Leimgruber, Master's, Christian-Albrechts-Universität, Germany  
 Peter Leimgruber, PhD, University of Oklahoma  
 Norm Bourg, PhD, University of Maryland  
 Salah Hakim, PhD, University of Montana  
 Jorge Vega, PhD, Virginia Tech University  
 Jim Rieger, SI Postdoctoral Fellowship

## **PRESENTATIONS AND LECTURES (LAST 6 YEARS)**

2009

Southeast Deer Managers Study Group, Maryland; Mississippi St University; Peking University, Beijing; UVA Experimental Farm; Chinese Academy of Forestry, Beijing; Northeast Invasive Plant Council, Altoona, PA; University of California, Berkeley

2010

International Deer Congress (2 presentations); Peking Forestry University; NPS National Capital Region; Smithsonian Naturalist Museum.

2011

The Wildlife Society (2 presentations); Peking University; Annual Meeting Forest Ecology and Management, Roanoke, VA; American Chestnut Foundation Annual Meeting, Sheperdstwon, WV.

2012

IUCN SSC Chairs Meeting, Abu Dhabi; Virginia Native Plant Society; AZA Giant Panda Science Advisory Meeting, San Diego;

2013

Society for Conservation Biology; International Mammal Congress; Edinburgh Giant Panda Research Symposium; AZA Giant Panda Science Advisory Group; Virginia State Invasive Species Conference;

2014

Society of Conservation Biology; The Wildlife Society; TEDx, Washington DC; Chinese Academy of Forestry; Maryland Master Naturalist Conference; NY State Invasive Species Network, Webinar; AZA Giant Panda Advisory Group;

2015

AZA Giant Panda Advisory Group; Bridgewater College; Virginia Academy of Sciences Annual Meeting (keynote); Smithsonian/Mason School of Conservation;

2016

AZA Giant Panda Advisory Group, Peking University, American Botanical Society, Association of Ecosystem Research Centers,

2017

AZA Giant Panda Advisory Group, International Mammal Congress, Northeast Association of Fish and Wildlife Agencies, Smithsonian Associates, Restoration Society, National Park Service Webinar.