

# William F. Porter

## Curriculum Vitae

Updated January 2019

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### Professional Responsibilities

- Director, Boone and Crockett Quantitative Wildlife Center at Michigan State University, 2014 – present.
- Boone and Crockett Professor of Wildlife Conservation, Michigan State University College of Agriculture and Natural Resources, 2010 – present.
- Professor Emeritus, State University of New York College of Environmental Science and Forestry, 2010 – present.
- Professor, State University of New York College of Environmental Science and Forestry, 1988 – 2010.
- Associate Professor, State University of New York College of Environmental Science and Forestry, 1982 – 1988.
- Assistant Professor, State University of New York College of Environmental Science and Forestry, 1978 – 1982.
- Director, Adirondack Ecological Center, State University of New York College of Environmental Science and Forestry, 1981 – 2010.
- Director, Roosevelt Wild Life Station, State University of New York College of Environmental Science and Forestry 1999 – 2010.
- Executive Chairman of Faculty Governance, State University of New York College of Environmental Science and Forestry, 1994 – 1998.
- Ecologist GS-14 Schedule A, National Park Service, 1990 –1994.

### Education

- Leadership Development Program, 1991-92, State Agricultural Experiment Station System, Indianapolis, Indiana and Washington, D.C.
- Ph.D. 1979, Ecology and Behavioral Biology, University of Minnesota, Minneapolis.
- M.S. 1976, Ecology and Behavioral Biology, University of Minnesota, Minneapolis.
- B.A. 1973, Biology with Iowa Teaching Certification, University of Northern Iowa, Cedar Falls.

### Honors and Awards

- Distinguished Service Award, 2010, State University of New York College of Environmental Science and Forestry
- Award for Best New Non-fiction: *The Great Experiment in Conservation*, Syracuse University Press, 2010, Adirondack Center for Writing
- Earth Day Award for Leadership in Adirondack Park, 2004, Adirondack Park Agency
- Henry S. Mosby Award for Outstanding Contributions to Research, 1998, National Wild Turkey Federation
- Distinguished Teacher of the Year, 1998, Undergraduate Student Association, State University of New York College of Environmental Science and Forestry
- Elected Fellow, 1986, American Association for the Advancement of Science
- Certified Wildlife Biologist, 1982, The Wildlife Society
- Distinguished Award for Service, 1981, Minnesota State Chapter of the National Wild Turkey Federation
- Outstanding Graduate in the Department of Biology, 1973, University of Northern Iowa
- Outstanding Graduate in College of Natural Sciences, 1973, University of Northern Iowa

### **Current Professional Activity**

- Deputy Chair, Boone and Crockett Club University Programs Committee
- Member, North American Interdisciplinary Chronic Wasting Disease Consortium (NCDC 234)
- Steering Committee Member and Associate Editor, National Wild Turkey Symposium
- Member, Midwest Deer and Turkey Technical Committee
- Board of Directors, Adirondack Research Consortium Board of Directors
- Board of Directors, Shingle Shanty Preserve and Research Station
- Member, Michigan Chronic Wasting Disease Working Group
- Executive Committee Member, Sustainable Michigan Endowed Project
- Planning Committee Co-chair, Innovations in Collaborative Modeling Conference
- Coordinator, Theodore Roosevelt Conservation and Environmental Leadership Fellowship
- Member, MSU College of Agriculture and Natural Resources Promotion and Tenure Committee

### **Current Research**

- Adaptation and resilience in habitat planning: Coupled human and natural systems models of oak management in a changing climate. Sponsor: Michigan Department of Natural Resources. With C. Hoving.
- Assessing drivers of spread and transmission of chronic wasting disease in Michigan deer. Sponsor: Michigan Department of Natural Resources. With D. Williams and J. Trudeau.
- Effects of land-use policy on wildlife conservation across northern forested landscapes. Sponsor: Boone and Crockett Endowment. With K. Frens.
- Evaluating the impacts of landscape-level changes on the abundance and distribution of record book white-tailed deer across a large geographic region. Sponsor: Michigan Department of Natural Resources. With D. Williams and R. Cain.
- Evaluating the interaction of emerging diseases on white-tailed deer populations. Sponsor: Hal and Jean Glassen Memorial Foundation. With D. Williams and S. Christensen.
- Management solutions for chronic wasting disease. Sponsors: Michigan Department of Natural Resources, MSU CANR, MSU Extension and MSU AgBioResearch. With D. Williams, J. Cook and N. Thompson.
- Population dynamics of brown bears in Katmai National Park and Preserve, AK. Sponsor: Boone and Crockett Endowment. With D. Williams and L. Skora.
- Potential wolf expansion into the Northern Lower Peninsula of Michigan – Impacts on cervid ecology and local economies. Sponsor: Boone and Crockett Endowment. With N. Jaffe.
- Quantitative Wildlife Center research and biometrics support for DNR Wildlife Division. Sponsor: Michigan Department of Natural Resources. With D. Williams.

## Recent Publications (from a total of 6 books, 28 book chapters and 124 refereed/invited articles)

### Books

*Accepted; Not Yet Published*

Porter, W.F., Parent, C. J., and D.M. Williams, editors. Wildlife and landscapes: Principles and applications for broad-scale management. Baltimore, MD: Johns Hopkins University Press in affiliation with The Wildlife Society. In progress.

Schmitt Olabisi, L., McNall, M., Porter, W., and J. Zhao, editors. Innovations in collaborative modeling. East Lansing, MI: Michigan State University Press. In progress.

### Book Chapters

*Accepted; Not Yet Published*

Jarzyna M.A., V.L. Atkin Dahm, B. Zuckerberg, and W.F. Porter. Consequences of climate change for wildlife. In: Koprowski, J.L. and Krausman, P.R., editors. International wildlife: Contemporary challenges in a changing world. The Wildlife Society and Johns Hopkins University Press. In Press.

Porter, W.F. Foreword in deCalesta, D., Eckley, M. and Pierson, T., editors. Deer management for forest landowners and managers. Taylor & Francis Publishers. 680 pp. In Press.

Porter, W.F. and K. Frens. The landscape conservation movement. In: Mahoney, S., and V. Geist, editors. The North American model of wildlife conservation. Johns Hopkins University Press. In Press.

*Published*

Porter, W., R. Mason, and K. Frens. 2018. The protection acts. In: Leopold, B., Cummins, J. and Kessler, W., editors. North American wildlife policy and law. Boone and Crockett Club. p. 193-208.

Porter, W. F., and K. F. Millenbah. 2017. Being a professional and acting professionally. In: Henke, S. and P. Krausman, editors, Wildlife professions: Becoming marketable for employment. Johns Hopkins University Press. p. 166-170.

Porter, W. F. 2014. Lessons in leadership. In: Taylor, W., A. J. Lynch and N. J. Leopold (editors). Future of fisheries: perspectives for emerging professionals. American Fisheries Society. Bethesda, Maryland. p. 365-370.

Jarzyna, M. A., B. Zuckerberg, and W. F. Porter. 2013. Climate change and wildlife. In: Krausman, P. R., and J. W. Cain; editors. Wildlife management and conservation: contemporary principles and practices. Baltimore, MD: Johns Hopkins University Press and Bethesda, MD: The Wildlife Society. p. 262-278.

Humphries, R. W. Porter, S. Hanisch and A. Bowling. 2011. Concerns about lead in ammunition. In: Reneau, J. and J. E. Spring; editors. Records Book of North American Big Game. Missoula, MT: Boone and Crockett Club. p. 23-28.

## **Refereed and Invited Articles**

### *Online First Status*

Peach, M., J. Cohen, J. Frair, P. Sullivan, W. Porter, and C. Lang. The value of protected areas to avian persistence across 20 years of climate and land use change. *Conservation Biology*. In Press.

### *Published*

Crawford, J.C., A.C. Dechen Quinn, D.M. Williams, B.A. Rudolph, K.T. Scribner, and W.F. Porter. 2018. Fine-scale spatial genetic structure of deer in a suburban landscape. *Journal of Wildlife Management* 82(3): 596-607.

Crosby, A.D. and W.F. Porter. 2018. A spatially-explicit, multi-scale occupancy model for large-scale population monitoring. *Journal of Wildlife Management* 82(6): 1300-1310.

Snow N.P., Z. Zhang, A.O. Finley, B.A. Rudolph, W.F. Porter, D.M. Williams, and S.R. Winterstein. 2018. Regional-based mitigation approaches to reduce wildlife-vehicle collisions at large scales. *Journal of Wildlife Management* 82(4): 756-765.

Whitman, B.J., W.F. Porter, A.C. Dechen Quinn, D.M. Williams, J. Frair, B. Underwood, and J.C. Crawford. 2018. Movement behavior preceding autumn mortality for white-tailed deer in central New York. *Journal of Mammalogy* 99(3): 675-683.

Stevens, B.S., J.R. Bence, W.F. Porter, and M.L. Jones. 2017. Identifying target reference points for harvesting assessment-limited wildlife populations: a case study. *Ecological Applications*. 27:1916–1931.

Stevens, B.S., J.R. Bence, W.F. Porter, and C.J. Parent. 2017. Structural uncertainty limits generality of fall harvest strategies for wild turkeys. *Journal of Wildlife Management*. 81(4): 617-628.

Bowling, A. C., D. M. Williams, C. J. Parent, W. F. Porter, M. V. Schiavone, and B. Swift. 2016. Brooding over broods: regional impacts of habitat quality on wild turkeys in New York State. *Proceedings of the National Wild Turkey Symposium*. 11:315–328.

Fleming, K. K., and W. F. Porter. 2016. Comparison of landscape, patch, and local habitat effects on risk of predation of artificial wild turkey nests. *Proceedings of the National Wild Turkey Symposium*. 11:271-282.

Guber, A.K., D.M. Williams, A.C. Dechen Quinn, S.B. Tamrakar, W.F. Porter, and J.B. Rose. 2016. Model of pathogen transmission between livestock and white-tailed deer in fragmented agricultural and forest landscapes. *Environmental Modelling and Software* 80:185-200.

Jarzyna, M.A., B. Zuckerberg, A.O. Finley and W.F. Porter. 2016. Synergistic effects of climate and land cover: grassland birds are more vulnerable to climate change. *Landscape Ecology* 31(10): 2275-2290.

Parent, C. J., B. S. Stevens, A. C. Bowling, and W. F. Porter. 2016. Wild turkey harvest trends across the Midwest in the 21st century. *Proceedings of the National Wild Turkey Symposium*. 11:211–224.

Stevens, B. S., J. R. Bence, W. F. Porter, and C. J. Parent. 2016. Ecology matters: robustness and management tradeoffs for maximum harvests of wild turkeys. *Proceedings of the National Wild Turkey Symposium*. 11:189–210.

- Dechen Quinn, A. C. and W. F. Porter. 2015. A new approach to teaching: Inspiring a passion for wildlife conservation. *Fair Chase Magazine* 31:58-62.
- Mountrakis, G., C. Beier, W. Porter, B. Zuckerberg, M. Jarzyna, J. Wiley Jr, W. Zhuang, and H. Jin. 2015. Using LIDAR to assess the roles of climate and land-cover dynamics as drivers of changes in biodiversity. Final Report to the National Aeronautics and Space Administration (NASA). 66pp.
- Jarzyna, M. A., W.F. Porter, B. A. Maurer, B. Zuckerberg, and A. O. Finley. 2015. Landscape fragmentation affects responses of avian communities to climate change. *Global Change Biology*. 21(8): 2942–2953.
- Jarzyna, M. A., B. Zuckerberg, W. F. Porter, A. O. Finley and B. A. Maurer. 2015. Spatial scaling of temporal changes in avian communities. *Global Ecology and Biogeography* 24:1236-1248. doi:10.1111/geb.12361.
- Snow, N. P., D. M. Williams, and W. F. Porter. 2015. Under-reporting of wildlife-vehicle collisions does not hinder predictive modeling for large ungulates. *Biological Conservation*. 181: 44-53.
- Dechen Quinn, A. C., D. M. Williams, W. F. Porter, S. D. Fitzgerald, and K. Hynes. 2014. Effects of capture-related injury on post-capture movement rates of white-tailed deer. *Journal of Wildlife Diseases*. 50(2):250–258.
- Jarzyna, M. A., A. O. Finley, W. F. Porter, B. A. Maurer, C. M. Beier, and B. Zuckerberg. 2014. Accounting for space-varying nature of the relationships between temporal community turnover and the environment. *Ecography* 37:1073-1083.
- Snow, N. P., D. M. Williams, and W. F. Porter. 2014. A landscape-based approach for delineating hotspots of wildlife-vehicle collisions. *Landscape Ecology*. 29(5):817–829.
- Spilman, C.J., N. Schoch, W. F. Porter, and M.J. Glennon. 2014. The effects of lakeshore development on common loon (*Gavia immer*) productivity in Adirondack Park, New York, USA. *Waterbirds* 37:94-101.
- Williams, D. M., A. C. Dechen Quinn and W. F. Porter. 2014. Informing disease models with temporal and spatial contact structure among GPS-collared individuals in wild populations. *PLOS ONE* 9(1): e84368.
- Dechen Quinn, A.C., D.M. Williams, and W.F. Porter. 2013. Landscape structure influences white-tailed deer space use. *Journal of Mammalogy* 94:398-407.
- Porter, W. F. 2013. Managing wolves: the value of long-term research. *Fair Chase Magazine* 28(3).
- Porter, W. F., and M. A. Jarzyna. 2013. Effects of landscape-scale forest change on the range contraction of ruffed grouse in New York State, USA. *Wildlife Society Bulletin* 37:198–208.
- Sadoti, G. B. Zuckerberg, M. A. Jarzyna and W. F. Porter. 2013. Applying occupancy estimation and modeling to the analysis of atlas data. *Diversity and Distributions* 19:804-814.
- Schildwatcher, G., and Porter, W. F. 2013. Changing landscapes: predators and policy constraints. *Fair Chase Magazine* 28(4).
- Dechen Quinn, A. C., M. S. Kirchgessner, B. A. Rudolph, D. M. Williams and W. F. Porter. 2012. Applying new analytical tools to the wicked problem of wildlife disease management. *Transactions of the North American Wildlife and Natural Resources Conference*.

- Dechen Quinn, A. C., D. M. Williams, and W. F. Porter. 2012. Postcapture movement rates can inform data-censoring protocols for GPS-collared animals. *Journal of Mammalogy* 93:456-463.
- Demarais, S., L. Cornicelli, R. Kahn, E. Merrill, C. Miller, J. M. Peek, W. F. Porter and G. A. Sargeant. 2012. Ungulate management in the national parks of the United States and Canada. The Wildlife Society Technical Review 12-05. The Wildlife Society, Bethesda, MD.
- Kirchgeßner, M. S., E. J. Dubovi, W. F. Porter, N. C. Zyllich and C. M. Whipps. 2012. Prevalence and spatial distribution of antibodies to bovine viral diarrhoea virus and *Coxiella burnetii* in white-tailed deer (*Odocoileus virginianus*) in New York and Pennsylvania. *Journal of Zoo and Wildlife Medicine* 43:466-472.
- Ma, Z., B. Zuckerberg, W.F. Porter, and L. Zhang. 2012. Use of localized descriptive statistics for exploring the spatial pattern changes of bird species richness at multiple scales. *Applied Geography* 32:185-194.
- Ma, Z., B. Zuckerberg, W.F. Porter, and L. Zhang. 2012. Spatial poisson models for examining the influence of climate and land cover pattern on bird species richness. *Forest Science* 58: 61-74.
- Williams, D.M., Dechen Quinn A., and W.F. Porter. 2012. Impact of Habitat-Specific GPS Positional Error on Detection of Movement Scales by First-Passage Time Analysis. *PLOS ONE* 7: e48439.
- Williams, D. A. C. Dechen Quinn, and W. F. Porter. 2012. Landscape effects on scales of movement by white-tailed deer in an agricultural-forest matrix. *Landscape Ecology* 27: 45-57.
- Dechen Quinn, A. D. Williams and W. Porter. 2011. Dead deer walking: Chronic wasting disease in New York State. *Fair Chase Magazine*. 26:32-36.
- Gorham, D. A. and W. F. Porter. 2011. Examining the potential of community design to limit human conflict with white-tailed deer. *Wildlife Society Bulletin* 35: 201-208.
- Nielsen, C. K. and W. F. Porter. 2011. Ecology and management of deer in developed landscapes: An Introduction. *Wildlife Society Bulletin* 35: 124-125.
- Porter, W. F. 2011. How to catch a moose. *Professors Column*. *Fair Chase Magazine*. 26(2):28
- Porter, W., W. Healy, S. Backs, B. Wakeling and D. Steffen. 2011. Managing wild turkeys in the face of uncertainty. *National Wild Turkey Symposium* 10: 1-9.
- Skrip, M., W. Porter, B. Swift and M. Schiavone. 2011. Fall-winter survival of ruffed grouse in New York State. *Northeast Naturalist* 18:394-410.
- Cox, G. L., A. M. Woods, T. P. Holmes, W. F. Porter and J. D. Erickson. 2010. Survey of public priorities as a guide for sustainable investment strategies in four Northern Forest states. *Adirondack Journal of Environmental Studies* 16:15-23.
- Danks, Z. D. and W. F. Porter. 2010. Temporal, spatial, and landscape habitat characteristics of moose-vehicle collisions in western Maine. *Journal of Wildlife Management* 74:1229-1241.
- Zuckerberg, B. and W. F. Porter. 2010. Thresholds in the long-term responses of breeding birds to forest cover and fragmentation. *Biological Conservation* 143(4): 952-962.