

**Steven M. Grodsky, Ph.D.**  
Creative | Applied | Solutions-oriented

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## CURRENT APPOINTMENTS

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*Assistant Unit Leader*, U.S. Geological Survey New York Cooperative Fish and Wildlife Research Unit  
*Assistant Professor*, Department of Natural Resources and the Environment, Cornell University  
*Co-founder & Co-director*, *Wild Energy Initiative*, Cornell University and University of California, Davis  
*Adjunct Professor*, University of California, Davis

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## PREVIOUS APPOINTMENTS

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*Assistant Research Ecologist*, John Muir Institute of the Environment, University of California, Davis

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## EDUCATION AND TRAINING

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<b>Postdoc</b>	<b>Renewable Energy Ecology</b> <i>University of California, Davis</i> Advisor: Dr. Rebecca R. Hernandez	Sep. 2016 - Oct. 2019
<b>Ph.D.</b>	<b>Wildlife and Conservation Biology</b> <u>Minor: Entomology</u> <i>North Carolina State University</i> Advisor: Dr. Chris Moorman	Aug. 2011 - May 2016
<b>M.S.</b>	<b>Forest and Wildlife Ecology</b> <i>University of Wisconsin – Madison</i> Advisor: Dr. David Drake	Jul. 2008 - Dec. 2010
<b>B.S.</b>	<b>Conservation and Applied Ecology</b> <u>Certificate: Environmental Geomatics</u> <i>Rutgers, The State University of New Jersey</i>	Sep. 2004 - May 2008

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## PROFESSIONAL EXPERIENCE

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<b>Assistant Unit Leader   Assistant Professor</b> USGS NY Coop Unit   Dept. of Natural Resources and the Environment Cornell University	Dec. 2020 - present
<b>Adjunct Professor</b> John Muir Institute of the Environment University of California, Davis	Dec. 2020 - present
<b>Affiliated Faculty</b> Energy and Geography Graduate Groups University of California, Davis	Apr. 2020 - present

<b>Educator without Salary</b> John Muir Institute of the Environment University of California, Davis	Mar. 2020 - present
<b>Assistant Research Ecologist</b> John Muir Institute of the Environment University of California, Davis	Nov. 2019 - Dec. 2020
<b>Associate Scientist</b> Conservation Science Partners	Sep. 2019 - Dec. 2020
<b>Co-founder/Co-director – <i>Wild Energy Initiative</i></b> John Muir Institute of the Environment University of California, Davis	Jun. 2017 - present
<b>Postdoctoral Scholar</b> Department of Land, Air & Water Resources University of California, Davis	Sep. 2016 - Oct. 2019
<b>Doris Duke Conservation Scholars Program Mentor</b> North Carolina State University	Jun. 2016 - Aug. 2016
<b>Preparing the Professoriate Fellow</b> The Graduate School North Carolina State University	Jan. 2014 - Jan. 2015
<b>Global Change Fellow</b> Southeast Climate Adaptation Science Center United States Department of Interior	Sep. 2012 - Aug. 2014
<b>Research Assistant</b> Fisheries, Wildlife, and Conservation Biology Program North Carolina State University	Aug. 2011 - May 2016
<b>Associate Lecturer</b> Department of Biology University of Wisconsin – Richland	Jan. 2011 - May 2011
<b>Research Assistant</b> Department of Forest and Wildlife Ecology University of Wisconsin – Madison	Jul. 2008 - Dec. 2010

PEER-REVIEWED JOURNAL ARTICLES

2021

31. **Grodsky, S. M.**, J. W. Campbell, and R. R. Hernandez. 2021. Solar energy development impacts flower-visiting beetles and flies in the Mojave Desert. *Biological Conservation*. 263:109336.
30. **Grodsky, S. M.** 2021. Matching renewable energy and conservation targets for a sustainable future. *One Earth*. 4:924–926.
29. Campbell, J. W., **S. M. Grodsky**, A. P. Monroe, and J. A. Martin. 2021. Bee (Apoidea) community response to perennial grass treatments managed for livestock production and conservation. *Agriculture, Ecosystems and Environment*. 313:107391.

2020

28. Cagle<sup>1</sup>, A., A. Armstrong, G. Exley, **S. M. Grodsky**, J. Macknick, J. Sherwin, and R. R. Hernandez. 2020. The land sparing, water surface use efficiency, and water surface transformation of floating photovoltaic solar energy installations. (Special Issue: "Sustainable Water–Energy–Food Nexus"). *Sustainability*. 12:8154. doi:10.3390/su12198154.  
<sup>1</sup>PhD student mentee
27. Yang, Y., S. E. Hobbie, R. R. Hernandez, D. Tilman, **S. M. Grodsky**, Y-G. Zhu, Y. Luo, T. M. Smith, J. Fargione, J. M. Jungers, M. Yang, W-Q Chen. 2020. Restoring abandoned farmland to mitigate climate change on a full Earth. *One Earth*. 3:176–186.
26. **Grodsky, S. M.** & R. R. Hernandez. 2020. Reduced ecosystem services of desert plants from ground-mounted solar energy development. *Nature Sustainability*. 3:1036–1043. doi:10.1038/s41893-020-0574-x.  
\*Media coverage: ABC News (TV), Huffington Post, NPR, WIRED Magazine, Nature Plants, Inside Climate News
25. L. S. Saul-Gershenz, **S. M. Grodsky**, and R. R. Hernandez. 2020. Ecology of the Western Queen Butterfly *Danaus gilippus thersippus* (Lepidoptera: Nymphalidae) in the Mojave and Sonoran Deserts. *Insects*. 11:315. doi:10.3390/insects11050315.
24. **Grodsky, S. M.**, L. S. Saul-Gershenz, K. A. Moore-O’Leary, and R. R. Hernandez. 2020. Her Majesty’s desert throne: The ecology of queen butterfly oviposition on Mojave milkweed host plants. (Special Issue: Butterfly Conservation and Management). *Insects*. 11:257. doi:10.3390/insects11040257. **\*Editor’s Choice article.**

2019

23. **Grodsky, S. M.**, R. R. Hernandez, J. W. Campbell, K. R. Hinson, O. Keller, S. R. Fritts, J.A. Homyack, and C. E. Moorman. 2019. Ground beetle (Coleoptera: Carabidae) response to harvest residue retention: Implications for sustainable forest bioenergy production. (Special issue: Ecological Insights into the Sustainable Development of Bioenergy from Forests). *Forests*. 11:48. doi:10.3390/f11010048.

22. Hernandez R. R., A. Armstrong, J. Burney, G. Ryan, K. Moore-O'Leary, I. Diédhiou, **S. M. Grodsky**, L. Saul-Gershenz, R. Davis, J. Macknick, D. Mulvaney, G. A. Heath, S. B. Easter, M. K. Hoffacker, M. F. Allen, and D. M. Kammen. 2019. Techno-ecological synergies of solar energy produce beneficial outcomes that mitigate global environmental change. *Nature Sustainability*. 2:560–568.

\*Media coverage: PV Magazine, Solar Magazine

21. **Grodsky, S. M.**, L. S. Saul-Gershenz, K. A. Moore-O'Leary, J. P. Whitney, and R. R. Hernandez. 2019. Hare don't care! Consumption of a rare, desert milkweed containing phytochemicals by the black-tailed jackrabbit. *Journal of Arid Environments*. 174:103991. doi:10.1016/j.jaridenv.2019.103991.

20. Campbell, J. W., **S. M. Grodsky**, D. Halbritter, P. Vigueira, C. Vigueira, O. Keller, and C. H. Greenberg. 2019. Asian needle ant (*Brachyponera chinensis*) and woodland ant responses to repeated applications of fuel reduction methods. *Ecosphere*. doi:10.1002/ecs2.2547.

19. Cope<sup>1</sup>, G. C., J. W. Campbell, **S. M. Grodsky**, and J. D. Ellis. 2019. Evaluation of nest-site selection of ground-nesting bees and wasps (Hymenoptera) using emergence traps. *Canadian Entomologist*. 151:260–271.

<sup>1</sup>Undergraduate mentee

18. Campbell, J. W., C. B. Kimmel, **S. M. Grodsky**, C. Smithers, J. C. Daniels, and J. D. Ellis. 2019. Wildflower plantings harbor increased arthropod richness and abundance within intensively managed agricultural areas. *Ecosphere*. doi:10.1002/ecs2.2890.

## 2018

17. **Grodsky, S. M.**, C. E. Moorman, S. R. Fritts, J. W. Campbell, M. A. Bertone, C. E. Sorenson, S. B. Castleberry, and T. B. Wigley. 2018. Invertebrate community response to coarse woody debris removal for bioenergy production from intensively managed forests. *Ecological Applications*. 28:135–148.

\***Journal cover article** | Media coverage: Phys.org

16. **Grodsky, S. M.**, J. W. Campbell, S. R. Fritts, T. B. Wigley, and C. E. Moorman. 2018. Variable responses of non-native and native ants to coarse woody debris removal following forest bioenergy harvests. *Forest Ecology and Management*. 427:414–422.

\*Media coverage: Phys.org

15. Campbell, J. W., **S. M. Grodsky**, O. Keller, C. Vigueira, E. Waite, P. Vigueira, and C. Greenberg. 2018. Response of beetles (Coleoptera) to repeated applications of prescribed fire and other fuel reduction techniques in the southern Appalachian Mountains. *Forest Ecology and Management*. 429:294–299.

## 2017

14. Fritts, S. R., C. E. Moorman, **S. M. Grodsky**, D. W. Hazel, J. A. Homyack, C. B. Farrell, and S. B. Castleberry. 2017. Rodent response to harvesting woody biomass for bioenergy production in the southeastern United States. *Journal of Wildlife Management*. 81:1170–1178.

13. Virzi, T., J. L. Lockwood, R. G. Lathrop, **S. M. Grodsky**, and D. Drake. 2017. Predicting American oystercatcher breeding distribution in an urbanized coastal ecosystem using Maximum Entropy Modeling. (Special Issue: American Oystercatcher). *Waterbirds*. 40 (SP1):104–122.

2016

12. **Grodsky, S. M.**, C. E. Moorman, S. R. Fritts, S. B. Castleberry, and T. B. Wigley. 2016. Breeding, early-successional bird response to forest harvests for bioenergy. *PLOS One*. 11(10): e0165070. doi:10.1371/journal.pone.0165070.

11. **Grodsky, S. M.**, C. E. Moorman, S. R. Fritts, D. W. Hazel, J. A. Homyack, S. B. Castleberry, and T. B. Wigley. 2016. Winter bird use of harvest residues in clearcuts and the implications of forest bioenergy harvest in the southeastern United States. *Forest Ecology and Management*. 379:91–101.

10. Fritts, S. R., C. E. Moorman, **S. M. Grodsky**, D. W. Hazel, J. A. Homyack, S. B. Castleberry, K. H. Pollock, and C. B. Farrell. 2016. Can biomass harvesting guidelines sustain herpetofauna following harvest of logging residues for renewable energy? *Ecological Applications*. 26:926–939.

\*Media coverage: NPR, The News and Observer

9. Virzi, T., J. L. Lockwood, D. Drake, **S. M. Grodsky**, and T. Pover. 2016. Conservation implications of reproductive success of American oystercatchers in an urbanized barrier island complex. *Wader Study*. 123:202–212.

2015

8. **Grodsky, S. M.**, R. B. Iglay, C. E. Sorenson, and C. E. Moorman. 2015. Should invertebrates receive greater inclusion in wildlife research journals? *Journal of Wildlife Management*. 79:529–536.  
\*Inspired the Editor’s Message “*What Taxa are Appropriate for the Journal?*” in the May 2015 issue of the *Journal of Wildlife Management*

7. Fritts, S. R., **S. M. Grodsky**, D. W. Hazel, J. A. Homyack, S. B. Castleberry, and C. E. Moorman. 2015. Quantifying multi-scale habitat use of woody biomass by southern toads. *Forest Ecology and Management*. 346:81–88.

6. Fritts, S. R., C. E. Moorman, **S. M. Grodsky**, D. W. Hazel, J. A. Homyack, C. B. Farrell, and S. B. Castleberry. 2015. Shrew response to variable woody debris retention: Implications for sustainable forest bioenergy. *Forest Ecology and Management*. 336:35–43.

5. Drake, D., C. S. Jennelle, J. N. Lui, **S. M. Grodsky**, S. Schumaker, and M. Sponsler. 2015. Regional analysis of wind turbine-caused bat mortality. *Acta Chiropterologica*. 17:179–188.

Prior to 2015

4. **Grodsky, S. M.**, C. S. Jennelle, and D. Drake. 2013. Bird mortality at a wind-energy facility near a Wetland of International Importance. *The Condor: Ornithological Applications*. 115:700–711.

3. **Grodsky, S. M.**, C. S. Jennelle, D. Drake, and T. Virzi. 2012. Bat mortality at a wind-energy facility in southeastern Wisconsin. *Wildlife Society Bulletin*. 36:773–783.

2. **Grodsky, S. M.**, M. J. Behr, A. Gendler, D. Drake, B. D. Dieterle, R. J. Rudd, and N. L. Walrath. 2011. Investigating the causes of death for wind turbine-associated bat fatalities. *Journal of Mammalogy*. 92:917–925.

\*Media coverage: Nature, Renewable Energy Magazine, Wisconsin State Journal, Minneapolis Star Tribune

1. Garvin, J. C., C. S. Jennelle, D. Drake, and **S. M. Grodsky**. 2011. Response of raptors to a windfarm. *Journal of Applied Ecology*. 48:199–209.

*Under review*

Cagle, A. E., M. Shepard, **S. M. Grodsky**, A. Armstrong, S. M. Jordaan, and R. R. Hernandez. 2021. Standardized metrics to quantify solar energy-land relationships: A global systematic review. *Renewable and Sustainable Energy Reviews*.

Hernandez, R. R., A. E. Cagle, **S. M. Grodsky**, G. Exley, and S. M. Jordaan. 2021. Comments on: Land use for United States power generation: A critical review of existing metrics with suggestions for going forward (Renewable and Sustainable Energy Reviews 2201; 143:110911). *Renewable and Sustainable Energy Reviews*.

Yang, Y., Z. Jin, N. D. Mueller, R. R. Hernandez, **S. M. Grodsky**, L. Sloat, M. Chester, Y. G. Zhu, and D. Lobell. 2021. Climate feedbacks from irrigation inform sustainable adaptation. *Nature Sustainability*.

*In immediate prep*

**S. M. Grodsky**<sup>†</sup>, R. R. Hernandez<sup>†</sup>, L. M. Roche, M. Abu Najm, D. Bigelow, C. Hitaj, R. F. Johnson, A. Armstrong, and C. Brinkley. 2021. Rangevoltaics and solar feedlots: Opportunities for co-location of solar energy and livestock production. *Frontiers in Sustainability*.

<sup>†</sup>Authors contributed equally

**Grodsky, S. M.** & R. R. Hernandez. 2021. Digital (natural) histories of species existing in the Internet ecosystem. *BioScience*.

## BOOK

Moorman, C. E., **S. M. Grodsky**, and S. P. Rupp (eds.). 2019. *Renewable Energy and Wildlife Conservation*. Baltimore, Johns Hopkins University Press, 10 September 2019.  
<https://www.press.jhu.edu/news/blog/renewable-energy-ecology-next-frontier-%09conservation-science>

## BOOK CHAPTERS

Campbell, J. W & **S. M. Grodsky**. *In prep*. Invertebrate sampling. Pp. 555-580 in *The Wildlife Techniques Manual*. 9<sup>th</sup> edition. L. Powell and J. Carrol (eds.) Johns Hopkins University Press.

**Grodsky, S. M.**, S. R. Fritts, and R. R. Hernandez. 2019. Renewable energy ecology: The next frontier in wildlife science. Pp. 247-260 in *Renewable Energy and Wildlife Conservation*. C. Moorman, **S. Grodsky**, and S. Rupp (eds.). Johns Hopkins University Press.

Moorman, C. E., **S. M. Grodsky**, and S. P. Rupp. 2019. Introduction: Renewable energy and wildlife conservation. Pp. 1-13 *in* Renewable Energy and Wildlife Conservation. C. Moorman, **S. Grodsky**, and S. Rupp (eds.). Johns Hopkins University Press.

Murphy-Mariscal, M., **S. M. Grodsky**, and R. R. Hernandez. 2018. Solar energy development and the biosphere. Pp. 387-401 *in* A Comprehensive Guide to Solar Energy Systems. T. Letcher and V. Fthenakis (eds.). Elsevier.

**S. M. Grodsky**, C. E. Moorman, and K. R. Russell. 2016. Forest wildlife management. Pp. 47-85 *in* Ecological Forest Management Handbook. G. LaRocque (ed.). Taylor Francis Group/CRC Press.

#### PEER-REVIEWED PROCEEDINGS

**Grodsky, S. M.**, K. A. Moore-O'Leary, and R. R. Hernandez. 2017. From butterflies to bighorns: Multi-dimensional species-species and species-process interactions may inform sustainable solar energy development in desert ecosystems. Proceedings of the 31<sup>st</sup> Annual Desert Symposium (R. L. Reynolds, ed.). California State University Desert Studies Center. Zzyzx, CA. April 14-15, 2017.

Drake, D, J. N. Lui, C. S. Jennelle, **S. M. Grodsky**, S. Schumaker, and S. Sponsler. 2012. Regional analysis of wind turbine-caused bat fatality. Proceedings of the National Wind Coordinating Collaborative Wind Wildlife Research Meeting IX (S. Schwartz, ed.). Broomfield, Colorado. November 28-30, 2012. Resolve, Inc. Washington, DC.

**Grodsky, S. M.**, M. J. Behr, A. Gendler, N. L. Walrath, and D. Drake. 2010. Bat mortality at a wind farm in southeastern Wisconsin (with a special emphasis on causes of death for bats killed by wind turbines). Proceedings of the National Wind Coordinating Collaborative Wind Wildlife Research Meeting VIII (S. Schwartz, ed.). Lakewood, Colorado. October 19-21, 2010. Resolve, Inc. Washington, DC.

Drake, D., J. C. Garvin, C. S. Jennelle, and **S. M. Grodsky**. 2010. Response of raptors to a Wisconsin wind energy facility. Proceedings of the National Wind Coordinating Collaborative Wind Wildlife Research Meeting VIII (S. Schwartz, ed.). Lakewood, Colorado. October 19-21, 2010. Resolve, Inc. Washington, DC.

#### PEER-REVIEWED EXTENSION PUBLICATION

Fritts, S. R., **S. M. Grodsky**, and C. E. Moorman. 2014. Managing woody debris to sustain wildlife populations following woody biomass harvests. *Southeastern Partnership for Integrated Biomass Supply Chains*. Available at <http://www.se-ibss.org/publications-and-patents/peer-reviewed-publications/>.

#### SCIENTIFIC AND TECHNICAL REPORTS

*Published*

**S. M. Grodsky**, K. Tanner, J. Whitney, and R. R. Hernandez. 2020. Desert plant response to solar energy development: Trophic interactions, rare and invasive species, and management implications. CEC-500-2020-076. *California Energy Commission*.

**Grodsky, S. M.** & D. Drake. 2011. Bird and bat mortality at the Forward Energy Center in southeastern Wisconsin. Reference #152052. Final report prepared for the Public Service Commission of Wisconsin and Invenergy, LLC. Available at <http://www.stevegrodsky.com/publications/>.

*Unpublished*

- 2016 – 2020      **S. M. Grodsky**, K. Tanner, J. Whitney, and R. R. Hernandez. Optimizing solar facility configuration effects on habitat, managed plants, and essential species interactions. Monthly Reports/Annual Environmental Reports prepared for *California Energy Commission*.
- 2015              C. E. Moorman, D. W. Hazel, **S. M. Grodsky**, and S. R. Fritts. Evaluating biomass harvesting practices with respect to wildlife sustainability. Final report prepared for *North Carolina Department of Agriculture and Consumer Services Bioenergy Research Initiative*.
- 2015              C. E. Moorman, **S. M. Grodsky**, and S. R. Fritts. Evaluating biomass harvesting practices with respect to wildlife sustainability. Final report prepared for *North Carolina Biofuels Center*.
- 2012 – 2016      **S. M. Grodsky** & C. E. Moorman. Evaluating avian and arthropod response to implementation of woody biomass harvesting guidelines in the southeastern United States. Annual reports prepared for *National Council for Air and Stream Improvement, Inc.*
- 2012 – 2014      **S. M. Grodsky**, C. E. Moorman, and S. R. Fritts. Developing woody biomass harvesting guidelines for wildlife. Annual reports prepared for *Weyerhaeuser Company*.

**RESEARCH GRANTS AND CONTRACTS**

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*Awarded*

Informing solar energy development practices conducive to desert ecosystem conservation and management. *United States Bureau of Land Management (Nevada)*. 2021. PI. **\$256,000**.

Ecological restoration for techno-ecological synergies of solar energy: Promoting vegetation, pollinators, soil quality, and ecosystem services. *Electric Power Research Institute and Sacramento Municipal Utility District*. 2021. Co-PI. **\$788,000**.

Bolstering capacity for economically viable, commercial scale floating photovoltaic solar energy development with applied sustainability science. *Enel Green Power*. 2021. PI. **\$315,000**.

Impacts of solar energy development on desert wildlife and ecosystem services: Guidance for Best Management Practices, siting decisions, conservation planning, and ecosystem resiliency. *United States Bureau of Land Management (California)*. 2020. PI. **\$402,453**.

Quantifying and valuing fundamental characteristics and benefits of floating photovoltaic (FPV) systems. *United States Department of Energy Solar Energy Technologies Office*. 2020. Co-PI. **\$750,000**.



Informing pollinator conservation at Ivanpah Solar Electric Generating System in the Californian Mojave Desert. *United States Bureau of Land Management (California)*. 2019. PI. \$149,982.

Solar energy potential of the largest commercial buildings in the United States. *Center for Biological Diversity, John Muir Institute of the Environment, and College of Agricultural and Environmental Science*. 2017. Co-PI. \$57,000.

*In review*

Optimizing adaptation strategies at the nexus of grassland bird management and solar energy development in New York and New Jersey. *United States Department of Interior Northeast Climate Adaptation Science Center*. 2021. PI. \$290,123.

Measuring effects of solar energy development on the Mojave fringe-toed lizard. *United States Bureau of Land Management (California)*. 2021. PI. \$300,000

Assessing local to landscape-level interactions among wildlife and solar energy development in California's East Riverside Development Focus Area, Sonoran Desert, USA. *Bureau of Land Management (California)*. 2021. PI. \$100,000.

## **SELECTED FELLOWSHIPS AND SCHOLARLY AWARDS**

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Distinguished Postdoctoral Scholar Award. *Department of Land, Air & Water Resources*. University of California, Davis.

Global Change Fellowship. United States Department of Interior. *Southeast Climate Adaptation Science Center*. Raleigh, North Carolina. **\$42,000**

Preparing the Professoriate. *The Graduate School*. NC State University. **\$500**

Joseph E. and Robin C. Hightower Graduate Student Award in Fisheries and Wildlife Sciences. *Fisheries, Wildlife, and Conservation Biology Program*. NC State University. **\$2,000**

Namkoong Family Graduate Fellowship for Excellence in Conservation and Ethics. *Department of Forestry and Environmental Resources*. NC State University. **\$500**

Charles B. Davey Graduate Fellowship for Excellence in the Biological Sciences. *Department of Forestry and Environmental Resources*. NC State University. **\$500**

NCWF Scholarship. *North Carolina Wildlife Federation*. **\$1,500**

The Wildlife Society. *Renewable Energy Working Group Travel Grant*. **\$450**

Entomology 2015 Program Enhancement Fund. *Entomological Society of America*. **\$400**

Travel scholarship to attend the Wisconsin Chapter of the Wildlife Society's Annual Meeting. *Henry L. Russell Memorial Fund*. University of Wisconsin – Madison. **\$500**

*Xi Sigma Pi* Forestry Honor Society – *Mu* Chapter at the College of Natural Resources. NC State University

Science Communication Fellow. North Carolina Museum of Natural Sciences

James E. Applegate Award for the Outstanding Student in Wildlife Conservation\*. Department of Ecology, Evolution, and Natural Resources. Rutgers, The State University of New Jersey.

\*Awardee selected among all graduating seniors in the department by a faculty-member selection committee

## **PRESENTATIONS**

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\* = with published abstracts; oral presentations unless otherwise noted

### INVITED

**Grodsky, S. M.** 2021. Solar energy in desert ecosystems and the bright future of solar energy ecology. American Clean Power Siting and Environmental Compliance Virtual Summit 2021. Ithaca, New York.

**Grodsky, S. M.** 2021. Pollinators and solar: A starting point. Agriculture and Solar Summit for Cornell Cooperative Extension Educators. Ithaca, New York.

**Grodsky, S. M.** 2021. Effects of solar energy development on pollinators in the Mojave Desert. Bureau of Land Management/U.S. Fish and Wildlife Service. Sacramento, California.

**Grodsky, S. M.** 2021. Floatovoltaics: The next frontier in solar energy ecology. Shackleton/Sethi Lab Group. Ithaca, New York.

**Grodsky, S. M.** 2021. Energy ecology: Solutions for climate adaptation in a changing world. Northeast Climate Change Working Group. Ithaca, New York.

**Grodsky, S. M.,** K. Tanner, L. Saul-Gershenz, K. Moore-O'Leary, J. P. Whitney, and R. R. Hernandez. 2019. Solar energy ecology. Environmental Protection Agency. San Francisco, California.

**Grodsky, S. M.** 2019. The ecology of concentrating solar power at Ivanpah Solar Electric Generating System. Bureau of Land Management. Arden-Arcade, California.

**Grodsky, S. M.** 2018. Renewable energy ecology: The next frontier in wildlife science. Wildlife, Fish and Conservation Biology Departmental Seminar. University of California, Davis. Davis, California.

\***Grodsky, S. M.** 2018. Renewable energy ecology: The next frontier in conservation science. Spring 2018 Colloquium Series. Sacramento State Departments of Geology, Biological Sciences and Environmental Studies and the U.S. Geological Survey. Sacramento, California.

\***Grodsky, S. M.,** S. P. Rupp, and C. E. Moorman. 2017. Renewable energy and wildlife conservation: The next frontier in wildlife science. Symposium: "Advancing wildlife conservation and renewable energy: A synthesis of energy system technologies and identifying effects on wildlife". The Wildlife Society's 24<sup>th</sup> Annual Conference. Albuquerque, New Mexico.

\***Grodsky, S. M.,** K. A. Moore-O'Leary, and R. R. Hernandez. 2017. Next-generation solar energy ecology research in deserts. 31st Annual Desert Symposium. California State University Desert Studies Center. Zzyzx, California.

- Grodsky, S. M.** 2017. Exploring the renewable energy-wildlife nexus: Animal conservation in parallel with next-generation energy development. Institute of Transportation Studies. Sustainable Transportation Energy Pathways Seminar Series. Davis, California.
- Grodsky, S. M.** 2017. Energy and biodiversity. Energy and the Environment Seminar. Department of Land, Air & Water Resources. University of California, Davis, Davis, California.
- \***Grodsky, S. M.**, C. E. Moorman, J. A. Homyack, and T. B. Wigley. 2016. Forest bioenergy and wildlife conservation in North Carolina. North Carolina Chapter of the Wildlife Society Annual Meeting. Brown's Summit, North Carolina.
- \*Fritts, S. R., C. E. Moorman, **S. M. Grodsky**, D. W. Hazel, J. A. Homyack, C. B. Farrell, and S. B. Castleberry. 2016. Herpetofauna response to woody biomass harvesting. Symposium: "Response of amphibians and reptiles to anthropogenic disturbance". The Wildlife Society's 23<sup>rd</sup> Annual Conference. Raleigh, North Carolina.
- \*Moorman, C. E., **S. M. Grodsky**, S. R. Fritts, and D. W. Hazel. 2016. Does gleaning logging residues for renewable bioenergy threaten wildlife in the southeastern US? Department of Forestry and Environmental Conservation Seminar. Clemson University. Clemson, South Carolina.
- \***Grodsky, S. M.** 2015. Arthropods as wildlife, for wildlife: Bridging the gap between applied, entomological and wildlife sciences. Symposium: "Use of arthropods in wildlife and applied ecology: recognition of our common goals". Entomology 2015. Entomological Society of America's 2015 Meeting. Minneapolis, Minnesota.
- \*Moorman, C. E., **S. M. Grodsky**, and S. R. Fritts. 2015. Guiding development of biomass harvesting guidelines to ensure ecological sustainability of gleaning logging residues for renewable energy. NC State Forestry and Environmental Resources Departmental Seminar. Raleigh, North Carolina.
- \***Grodsky, S. M.**, R. B. Iglay, C. E. Sorenson, and C. E. Moorman. 2014. Do wildlife journals shrug at bugs? Symposium: "Integrating invertebrates into wildlife science and management: The importance of our most abundant and diverse wildlife group". The Wildlife Society's 21<sup>st</sup> Annual Conference. Pittsburgh, Pennsylvania.
- \***Grodsky, S. M.**, R. B. Iglay, C. E. Sorenson, and C. E. Moorman. 2014. Considerations for integration of invertebrates into wildlife research. Symposium: "Integrating invertebrates into wildlife science and management: The importance of our most abundant and diverse wildlife group". The Wildlife Society's 21<sup>st</sup> Annual Conference. Pittsburgh, Pennsylvania.
- \***Grodsky, S. M.** & D. Drake. 2014. Moving towards a sustainable energy future: a case study of wind energy development and wildlife. 2<sup>nd</sup> International Symposium on Energy Challenges and Mechanics. Aberdeen, Scotland, United Kingdom.
- \***Grodsky, S. M.**, S. R. Fritts, T. B. Wigley, and C. E. Moorman. 2014. A multi-pronged approach to measuring effects of private lands management on biodiversity: conservation and forest bioenergy. Symposium: "Applications of Biodiversity Metrics on Private Lands for Conservation Outcomes". Society for Conservation Biology's North American Congress for Conservation Biology. Missoula, Montana.

- \***Grodsky, S. M.**, C. E. Moorman, S. R. Fritts, S. B. Castleberry, and T. B. Wigley. 2013. Effects of biomass harvesting guidelines on avian habitat use. Symposium: “Wildlife Response to Intensive Management of Eastern Forests”. The Wildlife Society’s 20<sup>th</sup> Annual Conference. Milwaukee, Wisconsin.
- \***Grodsky, S. M.**, C. E. Moorman, S. B. Castleberry, T. B. Wigley, and S. R. Fritts. 2013. Effects of biomass harvesting guidelines on avian habitat use. Weyerhaeuser Sustainability Research Meeting - Catchlight Symposium. New Bern, North Carolina.
- \*Fritts, S. R., C. E. Moorman, D. W. Hazel, S. B. Castleberry, C. F. Farrell, J. A. Homyack, and **S. M. Grodsky**. 2013. Effects of biomass harvesting guidelines on herpetofauna use of clearcuts. Symposium: “Wildlife Response to Intensive Management of Eastern Forests”. The Wildlife Society’s 20<sup>th</sup> Annual Conference. Milwaukee, Wisconsin.

### CONTRIBUTED

- \*Castleberry, S. B., C. E. Moorman, S. R. Fritts, **S. M. Grodsky**, D. W. Hazel and J. A. Homyack. 2019. Wildlife occurrence data for risk-based assessment. International Workshop on Adequacy of Spatial Databases for Conducting Risk Assessments of Sustainable Wood Sourcing Practices of the U.S. Industrial Wood Pellet Industry Supplying European Energy Demand, Athens, GA.
- Fritts, S. R., C. E. Moorman, D. W. Hazel, J. A. Homyack, C. B. Farrell, **S. M. Grodsky**, S. B. Castleberry, D. Greene, and E. E. Evans. 2017. Rodent response to harvesting woody biomass for energy. The Wildlife Society’s 24<sup>th</sup> Annual Conference. Albuquerque, New Mexico.
- \*Moorman, C. E., **S. M. Grodsky**, S. R. Fritts, J. W. Campbell, C. E. Sorenson, M. A. Bertone, S. B. Castleberry, and T. B. Wigley. 2016. Multi-scale invertebrate response to harvest residue removal. The Wildlife Society’s 23<sup>rd</sup> Annual Conference. Raleigh, North Carolina.
- \*Campbell, J. W., **S. M. Grodsky**, C. Stanley-Stahr, J. D. Ellis, C. Smithers, and J. C. Daniels. 2016. Pollinators and other arthropod attraction to native wildflower plantings in Florida. XXV International Congress of Entomology/Annual Meeting of the Entomological Society of America. Orlando, Florida.
- \***Grodsky, S. M.**, C. E. Moorman, S. R. Fritts, S. B. Castleberry, and T. B. Wigley. 2015. How good is downed wood? Breeding bird response to gleaning harvest residues for renewable bioenergy. The Wildlife Society’s 22<sup>nd</sup> Annual Conference. Winnipeg, Manitoba.
- \*Maynard<sup>1</sup>, L., **S. M. Grodsky**, C. E. Moorman, and G. E. Hess. 2015. Downed wood in the neighborhood: Availability of woody debris in an urban-exurban matrix. International Urban Wildlife Conference. Chicago, Illinois.
- <sup>1</sup>Undergraduate mentee
- \***Grodsky, S. M.** & K. Douglass. 2015. Committing to a committee (*active learning group exercise*). North Carolina Chapter of The Wildlife Society’s Annual Meeting. Lake Logan, North Carolina.
- \*Campbell, J. W. & **S. M. Grodsky**. 2014. Pollinating insect communities in semi-natural grasslands managed for conservation benefits and biomass production. Entomological Society of America’s Annual Meeting. Portland, Oregon.

- \***Grodsky, S. M.**, R. B. Iglay, C. E. Sorenson, and C. E. Moorman. 2014. Invertebrates are wildlife too: Representation of “The Little Things That Run the World” in wildlife journals. The Statistics and Zoology Graduate Research Symposium. Raleigh, North Carolina.
- \*Fritts, S. R., C. E. Moorman, D. W. Hazel, J. A. Homyack, C. B. Farrell, **S. M. Grodsky**, K. H. Pollock, and S. B. Castleberry. 2014. Amphibian response to woody biomass harvesting. Texas Chapter of The Wildlife Society’s Annual Conference. Austin, Texas.
- Fritts, S. R., C. E. Moorman, D. W. Hazel, J. A. Homyack, S. B. Castleberry, C. B. Farrell, and **S. M. Grodsky**. 2013. Amphibian response to woody biomass harvesting. North Carolina Association of Environmental Professionals. Raleigh, North Carolina.
- Grodsky, S. M.** & C. E. Moorman. 2013. Renewable energy and wildlife: Sustaining natural resources in the face of global climate change. Southeast Climate Science Center Seminar Series. Raleigh, North Carolina.
- \***Grodsky, S. M.** & C. E. Moorman. 2013. Potential effects of woody biomass harvesting on avian habitat use. North Carolina Chapter of The Wildlife Society’s Annual Meeting. Columbia, North Carolina.
- \*Drake, D., J. N. Lui, C. S. Jennelle, **S. M. Grodsky**, S. Schumaker, and M. Sponsler. 2012. Regional analysis of wind turbine-caused bat fatality. National Wind Coordinating Collaborative Wind Wildlife Research Meeting IX. Broomfield, Colorado.
- \*Drake, D., **S. M. Grodsky**, M. J. Behr, A. Gendler, D. Drake, B. D. Dieterle, R. J. Rudd, and N. L. Walrath. 2012. Investigating the causes of death for wind turbine-associated bat fatalities. The Wildlife Society’s 19<sup>th</sup> Annual Conference. Portland, Oregon.
- Grodsky, S. M.**, C. E. Moorman, and D. W. Hazel. 2012. Potential effects of woody biomass harvesting on avian habitat use. Marine, Earth, and Atmospheric Sciences and Forestry and Environmental Resources Joint Graduate Student Symposium. Raleigh, North Carolina.
- \***Grodsky, S. M.** & D. Drake. 2012. Effects of wind farms on birds in Wisconsin: Lessons learned for the Southeast. Southeastern Partners in Flight Annual Meeting. Raleigh, North Carolina.
- \*Moorman, C. E., **S. M. Grodsky**, and D. W. Hazel. 2012. Potential effects of woody biomass harvests on avian habitat quality. Southeastern Partners in Flight Annual Meeting. Raleigh, North Carolina.
- \*Virzi, T., J. L. Lockwood, D. Drake, **S. M. Grodsky**, and T. Plover. 2011. Conservation of American oystercatchers (*Haematopus palliatus*) within an urbanized barrier island complex. The Waterbird Society’s 35<sup>th</sup> Annual Meeting. Annapolis, Maryland.
- \***Grodsky, S. M.**, M. J. Behr, A. Gendler, D. Drake, B. D. Dieterle, R. J. Rudd, and N. L. Walrath. 2011. Causes of death for wind turbine-associated bat fatalities. Wisconsin Chapter of The Wildlife Society’s Winter Meeting. Wisconsin Dells, Wisconsin.
- \*Drake, D., J. C. Garvin, C. S. Jennelle, and **S. M. Grodsky**. 2010. Response of raptors to a Wisconsin wind energy facility. National Wind Coordinating Collaborative Wind Wildlife Research Meeting VIII. Lakewood, Colorado.

- \***Grodsky, S., M.**, M. J. Behr, A. Gendler, N. L. Walrath, and D. Drake. 2010. Bat mortality at a wind farm in southeastern Wisconsin (with a special emphasis on causes of death for bats killed by wind turbines). National Wind Coordinating Collaborative Wind Wildlife Research Meeting VIII. Lakewood, Colorado.
- \***Grodsky, S. M.** & D. Drake. 2010. Preliminary results from a veterinary analysis of bats killed by wind turbines. Wisconsin Chapter of The Wildlife Society's Winter Meeting. Wausau, Wisconsin.
- \***Grodsky, S. M.** & D. Drake. 2009. Bat mortality at a wind farm in southeast Wisconsin, with a special emphasis on causes of death. 70<sup>th</sup> Annual Midwest Fish and Wildlife Conference. Springfield, Illinois.
- \***Grodsky, S. M.** & D. Drake. 2009. Investigating the impact of wind farms on birds and bats in southeastern Wisconsin. Wisconsin Chapter of The Wildlife Society's Winter Meeting. Madison, Wisconsin.

POSTER

- Cagle, A. E.<sup>1</sup>, A. Armstrong, G. Exley, **S. M. Grodsky**, J. Macknick, J. Sherwin, and R. R. Hernandez. 2020. Techno-hydrological attributes and land sparing opportunities of floating solar photovoltaics. American Geophysical Union's Fall Meeting. Virtual.  
<sup>1</sup>PhD student mentee
- Shepard, M.<sup>1</sup>, A. E. Cagle, S. M. Grodsky, A. Armstrong, and R. R. Hernandez. 2020. Delineating solar energy and land-use interactions: An exigency for standardized metrics. American Geophysical Union's Fall Meeting. Virtual.  
<sup>1</sup>Undergraduate mentee
- \***Grodsky, S. M.** & R. R. Hernandez. 2019. Solar energy development in deserts reduces ecosystem services and socioecological resources of indigenous people. American Geophysical Union's Fall Meeting. San Francisco, CA.
- \*Cagle<sup>1</sup>, A., M. Shepard, **S. M. Grodsky**, and R. R. Hernandez. 2019. Solar energy development in an era of looming land scarcity: Land-use metrics standardization and novel concepts. American Geophysical Union's Fall Meeting. San Francisco, CA.  
<sup>1</sup>PhD student mentee
- Grodsky, S. M.** and R. R. Hernandez. 2017. Who's hot, who's not? Effects of concentrating solar power heliostats on soil temperature at Ivanpah Solar Electric Generating System, Mojave Desert, USA. American Geophysical Union's Fall Meeting. New Orleans, Louisiana.
- Robles<sup>1</sup>, E. R., G. Ryan, **S. M. Grodsky**, and R. R. Hernandez. 2017. Solar energy potential of the largest commercial buildings in the United States. American Geophysical Union Fall Meeting. New Orleans, Louisiana.  
<sup>1</sup>Staff mentee
- Grodsky, S. M.**, C. E. Sorenson, and B. Overman. 2015. Building science communication skills in college freshman: a case study with entomophagy<sup>1</sup>. Marine, Earth, and Atmospheric Sciences and Forestry and Environmental Resources Joint Departmental Research Symposium. Raleigh, North Carolina.  
<sup>1</sup>Teaching presentation

\*Maynard<sup>1</sup>, L., **S. M. Grodsky**, G. R. Hess, and C. E. Moorman. 2015. Downed wood in the neighborhood: Availability of downed wood in an urban matrix. NC State Spring Undergraduate Research Symposium. Raleigh, North Carolina.

<sup>1</sup>Undergraduate mentee

\***Grodsky, S. M.**, C. E. Moorman, S. R. Fritts, S. B. Castleberry, and T. B. Wigley. 2014. Effects of biomass harvesting guidelines on avian habitat use. North Carolina Chapter of The Wildlife Society's Annual Meeting. Summit, North Carolina.

**Grodsky, S. M.**, C. E. Moorman, S. R. Fritts, S. B. Castleberry, and T. B. Wigley. 2014. Effects of biomass harvesting guidelines on avian habitat use. United States Department of Interior Southeast Climate Science Center Grand Opening. Raleigh, North Carolina.

\***Grodsky, S. M.**, C. E. Moorman, S. R. Fritts, S. B. Castleberry, and T. B. Wigley. 2013. Effects of woody biomass harvests on avian habitat use. The Wildlife Society's 20<sup>th</sup> Annual Conference. Milwaukee, Wisconsin.

\***Grodsky, S. M.**, S. R. Fritts, C. E. Moorman, S. B. Castleberry, J. A. Homyack, and T. B. Wigley. 2013. Evaluation of wildlife response to woody biomass harvesting. Project Directors Meeting - AFRI Foundational Programs: Soil Processes, Managed Ecosystems, and Ecosystem Services/Renewable Energy, Natural Resources, and Environment. Annapolis, Maryland.

## **TEACHING EXPERIENCE**

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Link to Teaching Portfolio: <http://smgrodsky.wixsite.com/teaching-portfolio>

### **INSTRUCTOR OF RECORD (4)**

#### *1) Energy Ecology Graduate Seminar*

Department of Natural Resources and the Environment, Cornell University

#### *2) Insects and People*

Department of Entomology, North Carolina State University

\*Course taught during participation in the Preparing the Professoriate program; my teaching for this course received the following media coverage: The Graduate School News (NCSU), NC State Bulletin, and the Entomology Department (NCSU) webpage

#### *3) Principles of Ecology*

Department of Biology, University of Wisconsin – Richland

#### *4) Animal Biology*

Department of Biology, University of Wisconsin – Richland

## **TEACHING ASSISTANT**

North Carolina State University

- Forest Wildlife Management
- Vertebrate Natural History
- Insects and People

Rutgers, The State University of New Jersey

- Ornithology (×2)
- Dendrology

## GUEST LECTURER

- Forest Wildlife Management (×3; NC State University)
- Introduction to Conservation Health (NC State Vet School)
- Vertebrate Natural History (NC State University)
- Wildlife Management (NC State University)
- Insects and People (NC State University)

## MENTORSHIP<sup>1</sup>

<sup>1</sup>Please see Publications and Presentations for designated mentee authors

### ***Advisor***

- Marie Hardouin, PhD student; Department of Natural Resources and the Environment, Cornell University: *Effects of solar energy development of desert wildlife site use*
- Yudi Li, PhD student; Energy Graduate Group - University of California, Davis: *Pollinator habitat restoration at solar facilities for multiple values*
- Alex Cagle, Ph.D. student; Energy Graduate Group – University of California, Davis: *Ecology of floatovoltaics*
- Jason Whitney, Ph.D. student; Geography Graduate Group – University of California, Davis: *The ecography of energy development*

### ***Graduate committee service***

- Mark Buckner (PhD student) - Department of Entomology, Cornell University

### ***Research staff***

- Laura Franklin; Field Specialist - Effects of solar energy development of desert wildlife site use (UC Davis/Cornell University: 2020-2021)
- Esther Robles; Junior Specialist - Solar energy potential of large commercial buildings (UC Davis: 2018-2020)

### ***Undergraduate researchers***

#### Cornell University

- Fiona Marks – Effects of co-locating grazing and solar energy production on ecosystem function

#### University of California, Davis

- Paloma Khilnani – Synthesis of insects in renewable energy ecology studies
- Morgan Shepard – Standardization of solar energy land-use metrics
- Allison Saranow – Energy and seafood study
- Kyle Johnson – Desert kit fox response to solar energy development
- Rachel Oelsner – Desert kit fox camera trap analysis
- Tatiana Moger – Desert kit fox and altered thermal landscapes using GIS
- Danielle Osborne – Solar energy effects on desert pollinators
- Alex Mehiel – Mojave Desert Plant Value System project
- Suellen Dias – Mojave Desert Plant Value System project
- Margaret Cooper – Mojave Desert Plant Value System project
- Matthew Gee – Mapping thermal landscape of solar facilities with remote sensing

#### University of Florida

- Grace Cope – Efficacy of trapping methods to capture ground-nesting bees



#### NC State University

- Alyssa Martinez (Doris Duke Conservation Scholars) – Waste-water remediation and wildlife
- Hannah Lacava (Doris Duke Conservation Scholars) – Waste-water remediation and wildlife  
Lexy Mash – Experiments to test mechanisms of invertebrate use of downed wood
- Lauren Maynard – Wildlife use of downed wood across an urbanization gradient
- Lindsey House – Relationships between insects and downed wood

#### University of Wisconsin – Richland

- Natural Resources Club Faculty Advisor

#### University of Wisconsin – Madison

- Kendra Abts – Select variables affecting technician detection rates for carcass searches under wind turbines  
\*Presented at the University of Wisconsin – Madison Senior Research Symposium
- Brittany Bauer – Meta-analysis of bat mortality at three wind farms in southeast Wisconsin  
\*Presented at the University of Wisconsin – Madison Senior Research Symposium

### SELECTED TECHNICAL TRAININGS ATTENDED

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*Climate Academy*. National Conservation Training Center. United States Fish and Wildlife Service. February 6 – July 11, 2014. Online course. Raleigh, North Carolina.

*Introduction to Structured Decision Making*. National Conservation Training Center. United States Fish and Wildlife Service. August 19-23, 2013. Shepherdstown, West Virginia.

*Wildlife Inventory and Monitoring: Technical Training and Workshop*. Wisconsin Chapter of The Wildlife Society. September 15-16, 2009. Trehaven, Wisconsin.

### SELECTED SCIENCE COMMUNICATION AND PUBLIC OUTREACH

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#### EDUCATIONAL WEBPAGE DESIGN

WildEnergy.org | stevegrotsky.com

#### WEBINARS

**Grodsky, S. M.**, C. E. Moorman, S. R. Fritts, S. B. Castleberry, D. W. Hazel, C. E. Sorenson, and T. B. Wigley. 2014. Bird and invertebrate response to woody biomass harvest: Preliminary findings and future directions. Biomass Harvesting Sustainability Webinar Series. North Carolina State University Forestry and Environmental Outreach Program.

Fritts, S. R., C. E. Moorman, D. W. Hazel, J. A. Homyack, C. B. Farrell, **S. M. Grodsky**, K. H. Pollock, and S. B. Castleberry. 2014. Small mammal, reptile, and amphibian response to biomass harvesting. Biomass Harvesting Sustainability Webinar Series. North Carolina State University Forestry and Environmental Outreach Program.

#### EDUCATIONAL VIDEOGRAPHY

**Grodsky, S. M.**, R. Weinrich, and D. Drake. 2009. Wind farms and wildlife: a documentary. Screened at the 2nd Annual Great Lakes Wind Collaborative Meeting. Milwaukee, Wisconsin.

## CONSERVATION EDUCATION

Wisconsin Department of Natural Resources Hunter Education Volunteer Instructor  
Wisconsin Department of Natural Resources Learn to Hunt Turkey Program Instructor

## PROFESSIONAL SERVICE AND MEMBERSHIPS

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### EDITORIAL SERVICE

- 2021 - present      Review Editor - Quantitative Sustainability Assessment specialty section in *Frontiers in Sustainability*
- 2020 - present      Topical Advisory Panel for the journal *Insects*
- 2014 – 2016      Editor – *North Carolina Wildlifer* (the quarterly publication of the North Carolina Chapter of the Wildlife Society)

### BOARD AND COMMITTEE SERVICE

- 2014 – 2016      Executive Board Member, Southeastern Section Representative – The North Carolina Chapter of The Wildlife Society
- 2014 – 2016      Chair, Communications Committee – The North Carolina Chapter of the Wildlife Society
- 2014/2015      Chair, The Frederick and Joan Barkalow Distinguished Conservationist Lecturer Committee – Fisheries, Wildlife, and Conservation Biology Program, North Carolina State University

### SEMINARS ORGANIZED

- 2021      *Wild Energy Initiative* Fall 2021 Seminar Series: Energy and the Environment in Transition. Weekly presentations from September 15<sup>th</sup> - December 1<sup>st</sup>, 2021. Co-sponsored by Cornell University (Grotsky) and University of California, Davis (R. R. Hernandez)

### SYMPOSIA ORGANIZED

- 2019      Sub-chair – Program Committee. American Fisheries Society and The Wildlife Society 2019 Joint Annual Conference. Reno, NV.
- 2015      Co-lead Organizer – “*Interdisciplinary Research Breakout Session*”. Marine, Earth, and Atmospheric Sciences and Forestry and Environmental Resources Joint Departmental Research Symposium. Raleigh, NC.
- 2015      Co-lead Organizer – “*Bird-invertebrate interactions in a changing world: A synthesis of understanding the importance of our most diverse wildlife group to Ornithology*”. Half-day panel discussion. The Wildlife Society’s 22<sup>nd</sup> Annual Conference. Winnipeg, Manitoba.

- 2015 Co-lead Organizer – “*Use of arthropods in wildlife and entomological ecology studies: Recognition of our common goals*”. Half day symposium. The Annual Meeting of the Entomological Society of America. Minneapolis, MN.
- 2014 Lead Organizer – “*Integrating invertebrates into wildlife science and management: The importance of our most abundant and diverse wildlife group*”. Half-day symposium. The Wildlife Society’s 21<sup>st</sup> Annual Conference. Pittsburgh, PA.

#### PROFESSIONAL PANELIST

- 2015 Panel Discussion: Bird-invertebrate interactions in a changing world: a synthesis of understanding the importance of our most diverse wildlife group to Ornithology. The Wildlife Society’s 22<sup>nd</sup> Annual Conference. Manitoba, Canada.
- 2013 Symposium: Wildlife Response to Intensive Management of Eastern Forests. The Wildlife Society’s 20<sup>th</sup> Annual Conference. Milwaukee, Wisconsin.
- 2011 Session: Fatality Impacts of Wind Turbines on Birds and Bats. National Wind Coordinating Collaborative Wind Wildlife Research Meeting VIII. Lakewood, Colorado.

#### REVIEWER FOR THE JOURNALS

Animals | Biological Conservation | Biomass and Bioenergy | Canadian Journal of Forest Research | Canadian Journal of Zoology | Diversity | Ecology | Ecology and Evolution | Ecological Applications | Environmental Management | Environmental Science and Technology | European Journal of Wildlife Research | Forests | Forest Ecology and Management | Journal of Field Ornithology | Journal of Forestry | Journal of Mammalogy | Nature Conservation | Scientific Reports | The Journal of the Kansas Entomological Society | Urban Ecosystems | Wilson Journal of Ornithology

#### PROFESSIONAL MEMBERSHIPS

The Wildlife Society | Society for Conservation Biology | Renewable Energy Working Group (TWS) | The Southeastern Section of the Wildlife Society | The North Carolina Chapter of the Wildlife Society | The Wisconsin Chapter of the Wildlife Society | Entomological Society of America

#### PRESENT\* AND PAST RESEARCH GROUPS

New York Cooperative Fish and Wildlife Research Unit\* | *Wild Energy Initiative*\* | John Muir Institute of the Environment\* | AridLab | Center for Spatial Technologies and Remote Sensing (CSTARS) | North Carolina State University Biomass Ecosystem Sustainability Team (BEST) | Department of Interior’s Southeast Climate Adaption Science Center