National Park Service-Northeast Temperate Network P.O. Box 177

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US Citizen

#### POSITIONS/APPOINTMENTS

Quantitative Ecologist (GS-0408-12), National Park Service Inventory and Monitoring
Program, Northeast Temperate Network, Bar Harbor, ME
Network Program Manager (GS-0408-13: 120-day temporary promotion), National Park
Service Inventory and Monitoring Program, Great Lakes Network, Ashland, WI
Maine Ecological Reserve Scientific Advisory Committee, Augusta, ME
External Graduate Faculty, University of Maine School of Biology and Ecology, Orono, ME
External Graduate Faculty, University of Maine School of Forest Resources, Orono, ME
Plant Ecologist (GS-0430-11), National Park Service Inventory and Monitoring Program,
Northeast Temperate Network, Bar Harbor, ME
Natural Resources Specialist (GS-0404-09), National Park Service Inventory and Monitoring
Program, Northeast Temperate Network, Bar Harbor, ME
Forest Crew Leader, SUNY - ESF & National Park Service Inventory and Monitoring
Program, Northeast Temperate Network, Bar Harbor, ME
Consulting Botanist, School of Forest Resources, University of Maine, Orono, ME
Consulting Botanist, USGS- Biological Resources Division, Ann Arbor, MI
Adjunct Professor of Natural Resources, Northland College, Ashland, WI
Plant Ecology Research Assistant, Northland College, Ashland, WI

#### **EDUCATION AND TRAINING**

2014-2018 University of Maine- Ph.D., Biological Sciences

Advisor: Dr. Brian McGill. Thesis: *Big data for small parks: Examining regional vegetation patterns to assess current condition and vulnerability of eastern national parks to climate change.* 

2003-2006 University of Maine- M.S., Ecology and Environmental Science

Advisor: Dr. Robert Wagner. Thesis: *Arboreal associations with epiphytes and the effects of gap harvesting in the Acadian forest of central Maine*.

1998-2002 Northland College- B.S., Natural Resources, Summa cum laude

### JOB RELATED SKILLS

- Thorough knowledge of and experience working in forest and wetland ecosystems in the Eastern US.
- Extensive experience developing and implementing long-term monitoring programs.
- Advanced statistical skills, including sample design, generalized linear modelling, hierarchical
  modelling/mixed effects modelling, multivariate statistics, spatial and conditional autoregressive
  modelling, and random forest modelling. Most experienced with a frequentist framework, but
  comfortable in a Bayesian framework.
- Advanced R programming and scripting skills, including functional programming and iteration, package development, version control and GitHub, developing R Markdown reports, data wrangling and manipulation, programming R Shiny apps, data visualization, and working with large datasets.
- Extensive experience conducting spatial analysis and analyzing large datasets, including working with the National Land Cover Database, PRISM climate data, US Forest Service Forest Inventory and Analysis data, NOAA historic weather station data, and Environmental Protection Agency National Aquatic Resource Survey data.

- Adept with GIS and GPS technologies, relational databases, spreadsheets, and word processing. Proficiency with the following software: Microsoft Excel, Word, Access, and PowerPoint, ArcGIS, R and R Studio, Adobe Creative Design Suite, EndNote, and FileMaker.
- Fluent in R and HTML/CSS programming languages, intermediate experience programming in SQL, and introductory experience with Python, Visual Basic, JavaScript, and LaTeX.
- Experience teaching applied R programming to NPS scientists and technicians, including getting started, data wrangling, data visualization, GIS in R, R Markdown, functional programming, building R packages, and version control and GitHub.

### TEACHING EXPERIENCE

Winter 2022	Intro to R: Lessons designed: Prep for Training and Visualizing Spatial Data
Winter 2022	Advanced R: Lessons designed: Prep for Training; Data Retrieval: GIS in R and
	Downloading FIA data; R Markdown; R Packages.
Fall 2020	R for NPS Resource Managers
Summer 2020	Intro to R and GIS mapping in QGIS for seasonal technicians
2017 & 2018	Guest Lecture for 5041 Forest Ecology at College of the Atlantic
Fall 2015-17	Guest Lecture for EES 489 Ecology and Environmental Science Capstone Class at UMaine
Fall 2005	Graduate Teaching Assistant (TA) for General Entomology at University of Maine
2004-2005	National Science Foundation GK-12 Teaching Fellow at University of Maine
2003-2004	Graduate TA for Introductory Biology and Biology of Organisms at University of Maine
2002-2003	Adjunct Professor in Natural Resources at Northland College

#### AWARDS

#### National Park Service:

2023 Director's Award for Natural Resource Research

2019 Inventory and Monitoring Division's Excellence in Science Award

2019 Inventory and Monitoring Division's Group Award for the Eastern Forest Work Group University of Maine:

2017 Fay Hyland-Hilborn Prize for Outstanding Graduate Student in Plant Biology

2004 Mark W. Houseweart Memorial Award for Forest Research

### Northland College:

Natural Science Faculty Award for Class of 2002

Class of 2001 Award for Class of 2002

2002 Matthew Berg Endowment Award for Natural Resources

### **PUBLICATIONS**

**K.M. Miller**, S.J. Perles, J.P. Schmit, E.R. Matthews, A.S. Weed, J.E. Comiskey, M.R. Marshall, P. Nelson, and N.A. Fisichelli. 2023. Overabundant deer and invasive plants drive widespread regeneration debt in eastern national parks. Ecological Applications 33(4):e2837 1-24. https://doi.org/10.1002/eap.2837.

Schmit, J.P., **K.M. Miller**, E.R. Matthews, A. Brolis. 2022. Do parks help forests? Frontiers in Young Minds 10:729784. https://doi.org/10.3389/frym.2022.729784.

Doser, J.W., A.S Weed, E.F. Zipkin, **K.M. Miller**, A.O. Finley. 2021. Trends in bird abundance differ among protected forests but not bird guilds. Ecological Applications 31(6): e02377 1-15. https://doi.org/10.1002/eap.2377.

**Miller, K.M.**, B.J. McGill, A.S. Weed, C.E. Seirup, J.A. Comiskey, E.R. Matthews, S.J. Perles, and J.P. Schmit. 2021. Long-term trends indicate that invasive plants are pervasive and increasing in eastern national parks. Ecological Applications 31(2):e02239 1-17. https://doi.org/10.1002/eap.2239.

**Miller, K.M.**, and B.J. McGill. 2019. Compounding human stressors cause major regeneration debt in over half of eastern US forests. Journal of Applied Ecology 56(6):1355-1366. https://doi.org/10.1111/1365-2664.13375.

- Miller, K.M., B.J. McGill, B.R. Mitchell, J. Comiskey, F.W. Dieffenbach, E.R. Matthews, S.J. Perles, J.P. Schmit, and A.S. Weed. 2018. Eastern national parks protect greater species diversity than unprotected matrix forests. Forest Ecology and Management 414:74-84. https://doi.org/10.1016/j.foreco.2018.02.018.
- **Miller, K.M.**, and B.J. McGill. 2018. Land use and life history limit migration capacity of eastern tree species. Global Ecology and Biogeography 27(1): 57-67. http://dx.doi.org/10.1111/geb.12671
- Fisichelli, N.A., and **K.M. Miller.** 2018. Weeds, worms, and deer: positive relationships among common forest understory stressors. Biological Invasions. https://doi.org/10.1007/s10530-017-1630-y
- Miller, K.M., F.W. Dieffenbach, J.P. Campbell, W.B. Cass, J.A. Comiskey, E.R. Matthews, B.J. McGill, B.R. Mitchell, S.J. Perles, S. Sanders, J.P. Schmit, S. Smith, A.S. Weed. 2016. National Parks in the eastern United States harbor important older forest structure compared with matrix forests. Ecosphere 7(7): 1-20. http://dx.doi.org/10.1002/ECS2.1404
- **Miller, K.M.**, B.R. Mitchell, and B.J. McGill. 2016. Constructing multimetric indices and testing ability of landscape metrics to assess condition of freshwater wetlands in the Northeastern US. Ecological Indicators 66:143-152.
- Miller, K.M., and B.R. Mitchell. 2014. A new tool for power analysis of fixed plot data: Using simulations and mixed effects models to evaluate forest monitoring metrics. Ecosphere 5(9): 1-23.
- Grace, J.B., D.R. Schoolmaster, Jr., E.W. Schweiger, B.R. Mitchell, **K.M. Miller**, and G.R. Guntenspergen. 2014. Connecting the dots: a collaborative USGS-NPS effort to expand the utility of monitoring data. The George Wright Forum 31(2): 181-190
- Schoolmaster Jr., D.R., J.B.Grace, E.W. Schweiger, G.R. Guntenspergen, B.R. Mitchell, **K.M. Miller**, and A.M. Little. 2013. An algorithmic and information-theoretic approach to multimetric index construction. Ecological Indicators 26: 14-23.
- Grace, J.B., D.R. Schoolmaster Jr., G.R. Guntenspergen, A.M. Little, B.R. Mitchell, **K.M. Miller**, and E. W. Schweiger. 2012. Guidelines for a graph-theoretic implementation of structural equation modeling. Ecosphere 3(8):73. http://dx.doi.org/10.1890/ES12-00048.1
- **Miller, K.M.**, R. Wagner, and S. Woods. 2008. Arboreal arthropod associations with epiphytes following gap harvesting in the Acadian forest of Maine. The Bryologist 111: 424-434.
- Miller, K.M., R. Wagner, and S. Woods. 2007. Effect of gap harvesting on epiphytes and bark-dwelling arthropods in the Acadian forest of central Maine. Canadian Journal of Forest Research 37: 2175-2187.

### **BOOK CHAPTERS**

Mitchell, B.R., G.L. Tierney, E.W. Schweiger, **K.M. Miller**, D. Faber-Langendoen, and J.B. Grace. 2014. Getting the message across: Using ecological integrity to communicate with resource managers. In: Guntenspergen, G.R. (ed.) Application of Threshold Concepts in Natural Resource Decision Making. Springer, New York.

#### PRESS COVERAGE & OUTREACH

- Fenston, J. and T. Turner. "Local forests are failing to produce the next generation of trees." *The DCist*. 20 December 2023. https://dcist.com/story/23/12/20/dc-local-forests-failing-tree-regeneration/.
- Levulis, J. "Study finds most forests in eastern national parks at risk." *WAMC Northeast Public Radio*. 24 April 2023. https://www.wamc.org/news/2023-04-24/study-finds-most-forests-in-eastern-national-parks-at-risk.
- Crowe, K, C., "Deer becoming a national park nemesis- Invasive plant species and climate change are also threats to historic acreage." *Times Union*. 13 April 2023. https://www.timesunion.com/news/article/deer-threaten-saratoga-roosevelt-vanderbilt-17893287.php.
- Martinez, G. "Deer, invasive plants are a grave threat to park forests in eastern U.S., study says." *CBS News*. 6 April 2023. https://www.cbsnews.com/news/deer-national-parks-invasive-plants-threat-eastern-u-s/
- Hargrave, A. "Save a forest? Shoot a deer, NPS study finds." *Greenwire*. 05 April 2023. https://subscriber.politicopro.com/article/eenews/2023/04/05/save-a-forest-shoot-a-deer-nps-study-finds-00090541
- Peters, G.M. "Blazes and colors." *National Parks: The Magazine of the National Parks Conservation Association.* Winter 2023, pp 57-59.

- Schuett, E. "Invasive plants threaten national parks; Vermont manages to decrease invasive population." ECONEWS VT. 23 February 2021. http://www.econewsvt.org/news/invasive-plants-threaten-national-forests-vermont-manages-to.
- Schmitt, C. "All Hope is not lost: managing invasive plants in eastern parks." 22 February 2021. https://www.scsparkscience.org/all-hope-is-not-lost-managing-invasive-plants-in-eastern-parks/v
- Campbell, F. "Invasive plants in national parks Progress?" 10 February 2021. Center for Invasive Species Prevention Newsletter. http://nivemnic.us/invasive-plants-in-national-parks-progress/
- MDIslander News. "ANP least invaded park in study" MDIslander. 21, December 2020. p. B002.
- Schmitt, C. "The Understory: The Future Forest of Acadia, Part 4." 2 October 2019. https://schoodicinstitute.org/understory-the-future-forest-of-acadia-part-4/
- Barton, A. "Are Eastern USA Temperate Forests Regenerating?" 16 April 2019. *Envirobites Blog*. https://envirobites.org/2019/04/16/are-eastern-usa-temperate-forests-regenerating/
- McLeish, T. "Discoveries: Barriers Ahead." 2019. Northern Woodlands Magazine. 26(3): 72-73.
- Broom, D. "Acadia's forests 'super healthy'." MDIslander. 12 September 2019. p. A2.
- Schmitt, C. "The Understory: The Future Forest of Acadia, Part 3." 31 July 2019. https://schoodicinstitute.org/understory-the-future-forest-of-acadia-part-3/
- Ostrander, M. "Can we help our forests prepare for climate change?" *SIERRA Magazine*. January/February 2019 Issue. https://www.sierraclub.org/sierra/2019-1-january-february/feature/can-we-help-our-forests-prepare-for-climate-change
- McDonough MacKenzie, C. "Hidden in plain sight: the secret tree diversity of cultural national parks in the east." *PLOS Ecology Community Blog.* 6 June 2018. https://blogs.plos.org/ecology/2018/06/06/hidden-in-plain-sight-the-secret-tree-diversity-of-cultural-national-parks-in-the-east/
- Miller, K.M. 2016. Healthy Forests are Messy Forests! Friends of Acadia Journal. 21(2): 16-17.

#### **TECHNICAL REPORTS**

- Miller K.M., A.S. Weed, C.E. Seirup, A.J. Kozlowski., and M.J. Johnson. 2022. Quality assurance plan for the Northeast Temperate Network and Mid-Atlantic Network long-term forest monitoring protocol. Natural Resource Report. NPS/NETN/NRR—2022/2430. National Park Service. Fort Collins, Colorado. https://doi.org/10.36967/2293.
- Miller, K. M., and A. S. Weed. 2021. Quality assurance plan for the Northeast Temperate Network permanent freshwater wetland monitoring protocol for Acadia National Park. Natural Resource Report NPS/NETN/NRR—2021/2277. National Park Service, Fort Collins, Colorado. <a href="https://doi.org/10.36967/nrr-2286695">https://doi.org/10.36967/nrr-2286695</a>.
- Miller, K.M., B.R. Mitchell, and A.S. Weed. 2021. Northeast Temperate Network permanent freshwater wetland monitoring protocol for Acadia National Park: 2020 revision. Natural Resource Report NPS/NETN/NRR—2021/2276. National Park Service, Fort Collins, Colorado. https://doi.org/10.36967/nrr-2286693.
- Miller, K.M., and A.S. Weed. 2017. Freshwater wetland monitoring in Acadia National Park: Northeast Temperate Network 2011-2016 summary report. National Resources Report NPS/NETN/NRR—2017/1418. National Park Service, Fort Collins, CO.
- Tierney, G.L., B.R. Mitchell, K.M. Miller, J. Comiskey, A. Kozlowski, and D. Faber-Langendoen. 2015. Northeast Temperate Network long-term forest monitoring protocol: 2015 revision. Natural Resource Report NPS/NETN/NRR—2015/923. National Park Service, Fort Collins, CO.
- Wheeler, J.S., K.M. Miller, and B.R. Mitchell. 2015. Forest health monitoring in the Northeast Temperate Network: 2014 summary report. National Resource Report NPS/NETN/NRR 2015/973. National Park Service, Fort Collins, CO.
- Miller, K.M. 2014. Salt marsh vegetation monitoring at Boston Harbor Islands National Recreation Area: 2013 summary report for Thompson Island. Natural Resource Data Series NPS/NETN/NRDS 2014/664. National Park Service, Fort Collins, CO.

- Miller, K.M., B.R. Mitchell, P.J. Curtin, and J.S. Wheeler. 2014. Forest health monitoring in Acadia National Park: 2006-2011 summary report. Natural Resource Report NPS/NETN/NRR—2014/777. National Park Service, Fort Collins, CO.
- Miller, K.M., B.R. Mitchell, J.S. Wheeler. 2014. Forest health monitoring in the Northeast Temperate Network: 2013 summary report. Natural Resource Technical Report NPS/NETN/NRTR 2014/894. National Park Service, Fort Collins, CO.
- Tierney, G.L., B.R. Mitchell, K.M. Miller, J. Comiskey, A. Kozlowski, and D. Faber-Langendoen. 2014. Northeast Temperate Network long-term forest monitoring protocol: 2014 revision. Natural Resource Report NPS/NETN/NRR—2014/805. National Park Service, Fort Collins, CO.
- Tierney, G.L., K.M. Miller, and B.R. Mitchell. 2014. Rare woodland and forest community monitoring protocol for Acadia National Park: 2014 revision. Natural Resource Report NPS/NETN/NRR—2014/893. National Park Service. Fort Collins. CO.
- Wheeler, J.S., and K.M. Miller. 2014. Invasive species early detection in the Northeast Temperate Network: 2013 summary report. Natural Resource Data Series. NPS/NETN/NRDS—2014/638. National Park Service. Fort Collins, Colorado.
- Miller, K.M., E.K. Heck, and B.R. Mitchell. 2013. Ecological integrity of tree regeneration in Acadia National Park spruce-fir forests. Natural Resource Report NPS/ACAD/NRR—2013/660. National Park Service. Fort Collins, CO
- Miller, K.M., B.R. Mitchell, F.W. Dieffenbach, and J.S. Wheeler. 2013. Forest health monitoring in the Northeast Temperate Network: 2012 summary report. Natural Resource Report NPS/NETN/NRTR 2013/678. National Park Service, Fort Collins, CO.
- Miller, K.M., and B.R. Mitchell. 2013. Permanent freshwater wetland monitoring protocol for Acadia National Park. Natural Resource Report NPS/NETN/NRR—2013/653. National Park Service, Fort Collins, CO.
- Tierney, G.L., F.W. Dieffenbach, B.R. Mitchell, and K.M. Miller. 2013. Appalachian National Scenic Trail plot-based forest monitoring protocol. Natural Resource Report NPS/NETN/NRR—2013/633. National Park Service, Fort Collins, Colorado.
- Tierney, G.L., B.R. Mitchell, K.M. Miller, J.A. Comiskey, A.J. Kozlowski, and D. Faber-Langendoen. 2013. Northeast Temperate Network long-term forest monitoring protocol: 2013 revision. Natural Resource Report NPS/NETN/NRR—2013/639. National Park Service, Fort Collins, CO.
- Wheeler, J.S., and K.M. Miller. 2013. Invasive species early detection in the Northeast Temperate Network: 2012 summary report. Natural Resource Data Series NPS/NETN/NRDS—2013/470. National Park Service, Fort Collins, CO.
- Miller, K.M., B.R. Mitchell, and J.S. Wheeler. 2012. Forest health monitoring in the Northeast Temperate Network: 2011 summary report. Natural Resource Technical Report NPS/NETN/NRTR—2012/604. National Park Service, Fort Collins, CO.
- Tierney, G.L., K.M. Miller, and B.R. Mitchell. 2012. Rare woodland and forest community monitoring protocol for Acadia National Park: Northeast Temperate Network. Natural Resource Report NPS/NETN/NRR—2012/529. National Park Service, Fort Collins, CO.
- Wheeler, J.S., and K.M. Miller. 2012. Invasive species early detection report in the Northeast Temperate Network: 2010-2011 summary report. Natural Resource Data Series. NPS/NETN/NRDS—2012/267. National Park Service, Fort Collins, CO.
- Miller, K.M., B.R. Mitchell, G.L. Tierney, and J.S. Wheeler. 2011. Northeast Temperate Network forest health monitoring report: 2010. Natural Resource Report NPS/NETN/NRR—2011/399. National Park Service, Fort Collins, CO.
- Miller, K.M., G.L. Tierney, and B.R. Mitchell. 2010. Northeast Temperate Network forest health monitoring report: 2006-2009. Natural Resource Report NPS/NETN/NRR—2010/206. National Park Service, Fort Collins, Colorado.
- Miller, K.M., G.L. Tierney, and B.R. Mitchell. 2009. Northeast Temperate Network 2006-2008 forest health monitoring report. Natural Resource Report NPS/NETN/NRR—2009/104. National Park Service, Fort Collins, Colorado.

#### **PRESENTATIONS**

- Miller, K.M. 2023. Lessons learned from 18 years of monitoring in Acadia National Park. Schoodic Institute Lunch and Learn Series, Bar Harbor, ME. 22 August 2023 (Invited Speaker).
- Miller, K.M. 2023. How do deer populations impact our forests? Marsh-Billings-Rockefeller National Historical Park Working Woodlands Workshop, Woodstock, VT. 22 June 2023 (Invited Speaker).
- Miller, K.M. 2022. Resilient Forests in Eastern National Parks. Resilient Forest Training, National Conservation Training Center, Shepherdstown, WV. 1 November 2022 (Keynote Speaker).
- Miller, K.M., A. Miller-Rushing, R. Cole-Will. 2022. A case study of applying RAD at Acadia National Park. NPS Southeast Region Climate Change Training. 2 March 2022.
- Miller, K.M., R. Cole-Will, A. Miller-Rushing. 2022. Thinking outside the boundary: How regional analyses are informing management in Acadia National Park. NPS Inventory and Monitoring Division Scientists Meeting. 24 January 2022.
- Miller, K.M. 2020. Forest health monitoring in eastern national parks: Lessons learned and future concerns. Forest Ecosystem Monitoring Cooperative Conference. December 17, 2020 (Invited Plenary).
- Perles, S.J., K.M. Miller (co-presenters), E. Sharron. 2020. All hope is not lost: Trends in invasive plants in eastern national parks and a strategic tool to protect park resources. Inventory and Monitoring Division Webinar. December 10, 2020.
- Miller, K.M. 2020. Regeneration issues in northeastern forests. Northern Institute of Applied Climate Science Forest Adaptation Webinar Series, 25 June 2020 (Invited Speaker).
- Miller, K.M. 2019. Forest health in eastern national parks: Current trends and future concerns. Human Ecology Forum at College of the Atlantic, Bar Harbor, ME, 12 November 2019 (Invited Speaker).
- Miller, K.M. 2019. 20 years after the Natural Resource Challenge: What next? Acadia National Park Science Symposium, Bar Harbor, ME, 24 October 2019 (Invited Speaker).
- Miller, K.M. 2019. Managing for climate change in eastern national parks. Sierra Club- Maine Chapter Climate Action Conference, Belfast, ME, 4 May, 2019 (Invited Speaker).
- Miller. K.M. 2018. Forest health in eastern national parks: current condition and future concerns. NPS-National Capital Region Science Forum Webinar Series, 12 December, 2018 (Invited Speaker).
- Miller, K.M. 2018. Forest health in eastern national parks: current condition and future concerns. Sigurd Olson Environmental Institute Evening Lecture, Ashland, WI, 7 November, 2018 (Invited Speaker).
- Miller, K.M. 2018. Forest health in eastern national parks: current condition and future concerns. Yale University Forest Forum, New Haven, CT, 25 October 2018 (Invited Speaker).
- Miller, K.M., C.E. Seirup, and A.S. Weed. 2018. Invasive species trends in Northeast Temperate Network park forests. Acadia National Park Science Symposium, Bar Harbor, ME, 20 October 2018 (poster).
- Bietsch, S.A., K.M. Miller, C.E. Seirup, and A.S. Weed. Forest trends in Acadia National Park. Acadia National Park Science Symposium, Bar Harbor, ME, 20 October 2018 (poster).
- Miller, K.M. 2018. Managing for change in Acadia's Forests. Acadia National Park Brown Bag Series, Bar Harbor, ME, 19 July 2018 (Invited Speaker).
- Miller, K.M., and C.E. Seirup. 2018. Forest health trends in the Northeast Temperate Network. Acadia National Park Brown Bag Series, Bar Harbor, ME, 12 July 2018 (Invited Speaker).
- Miller, K.M. 2018. Big data analyses for eastern temperate forests. NPS-Inventory and Monitoring Division National Scientist Meeting, Grand Canyon, AZ, 31 January 2018 (Invited Speaker).
- Miller, K.M. 2017. Forests in Acadia National Park and impacts of red pine scale. Red Pine Decline and the Management of Acadia's Forests: A Community Discussion. Northeast Harbor Library, Northeast Harbor, ME, 17 August 2017 (Invited Speaker).
- Miller, K.M., and B. Henkel. 2017. Wetland monitoring in Acadia National Park and implications for Great Meadow. Acadia National Park Brown Bag Series, Bar Harbor, ME, 14 February 2017 (Invited Speaker).
- Miller, K.M., 2016. Wetland Monitoring in Acadia National Park. Northeast and Mid-Atlantic Wetland Working Group Joint Meeting. Galloway, NJ, 1 November 2016 (Invited Speaker).
- Miller, K.M., 2016. New tools to assess condition of freshwater wetlands in the Northeastern US: Multimetric indices for vegetation, soil, chemistry, algae taxa, and water chemistry. New England Wetlands Webinar Series, 10 March 2016 (Invited Speaker).

- Miller, K.M. 2015. Forest and Wetland Communities in Acadia National Park. Interpretive Division Resource Session. Acadia National Park, Bar Harbor, ME, 7 July 2015 (Invited Speaker).
- Miller, K.M. 2015. Forest health in northeastern national parks: Current status and future concerns. University of Maine Forestry Seminar, April 17, Orono, ME (Invited Speaker).
- Miller K.M., and J.S. Wheeler. 2014. 9 Years of forest health monitoring in Acadia National Park. Acadia National Park Science Symposium, Winter Harbor, ME, 1 October 2014 (poster).
- Miller, K.M., B.R. Mitchell, and B.J. McGill. Using the Forest Service Climate Change Tree Atlas and National Land Cover Data to predict changes in forest composition in Northeastern National Parks. Ecological Society of America Annual Meeting, Baltimore, MD, 9-14 August 2015 (poster).
- Miller, K.M. 2014. 8 Years of Forest Health Monitoring in Acadia National Park. Schoodic Institute, Winter Harbor, ME, 05 March 2014 (Invited Speaker).
- Miller, K.M., and J.S. Wheeler. 2014. 8 Years of forest health monitoring in Acadia National Park. Acadia National Park Science Symposium, Winter Harbor, ME, 16 April 2014 (poster).
- Miller K.M. 2014. 8 Years of Forest Health Monitoring in Acadia National Park. Interpwoods. Bar Harbor, ME, 18 June 2014 (Invited Speaker).
- Wheeler, J.S., K.M. Miller, F.W. Dieffenbach, and B.R. Mitchell. 2014. Comparing metrics of forest health between Acadia national Park and surrounding forestlands. Northeast Natural History Conference 2014, Springfield, MA, 7-9 April 2014.
- Wheeler, J.S. K.M. Miller, F.W. Dieffenbach, and B.R. Mitchell. 2014. 2014. Comparing metrics of forest health between Acadia national Park and surrounding forestlands. Acadia National Park Science Symposium, Winter Harbor, ME, 16 April 2014 (poster).
- Miller, K. M., F.W. Dieffenbach, and B.R. Mitchell. 2013. Comparing metrics of forest health between national parks and surrounding forestlands using data collected by the Northeast Temperate Network and the U.S. Forest Service Forest Inventory and Analysis program. Ecological Society of America annual meeting. 7 August 2013 Minneapolis, MN.
- Miller, K.M. 2013. Vital Signs Monitoring in the Northeast Temperate Network. Maine Association of Professional Soil Scientists Annual Meeting. 12 March 2013, Hallowell, ME. (Invited Speaker)
- Miller, K. M. and S. J. Perles. 2012. Patterns in forest soil chemistry across Eastern U.S. national parks. Ecological Society of America annual meeting. 7 August 2012, Portland, OR.
- Miller, K.M., J.S. Wheeler, and B.R. Mitchell. 2012. 7 years of forest health monitoring in Acadia National Park. Acadia Science Symposium. Winter Harbor, ME, 23 October 2012 (poster).
- Wheeler, J.S., and K.M. Miller. 2012. Early detection of invasive species surveillance monitoring and rapid response in northeastern parks. Acadia Science Symposium. Winter Harbor, ME, 23 October 2012.
- Miller, K.M. 2011. Applications of vegetation monitoring data for management and planning. George Wright Society Biennial Meeting, 16 March 2011, New Orleans, LA. (presented by J. Comiskey)
- Miller, K.M., G.L. Tierney, B.R. Mitchell, and D. Faber-Langendoen. 2010. Using the USNVC to enhance assessment of forest health in Northeastern U.S. National Parks. Ecological Society of America annual meeting. 3 August 2010, Pittsburgh, PA.
- Miller, K.M., and S.A. Woods. 2005. Arboreal invertebrate associations with lichen epiphytes and impacts of harvested canopy gaps. Entomological Society of America annual meeting. 17 December 2005, Fort Lauderdale, FL.
- Miller, K.M., S.A. Woods, and S.B. Selva. 2005. Characterizing the influence of canopy gaps on the arboreal invertebrate and macrolichen community in the Acadian spruce/fir forest. Society for Conservation Biology annual meeting. 18 July 2005, Brasilia, Brazil (poster).
- Miller, K.M., and S.A. Woods. 2005. Arboreal lichen and invertebrate associations and impacts of gap harvesting. Acadian Entomological Society annual meeting. 20 June 2005, Fredericton, New Brunswick.

### **SERVICE**

Reviewer for: Conservation Biology, Forest Ecology and Management, Frontiers in Ecology and the Environment, Global Ecology & Biogeography, Journal of Ecology, Natural Areas Journal, and Science of Remote Sensing

### **GRADUATE COMMITTEES**

Colby Bosley-Smith. 2024 – present. PhD topic: Coastal red spruce forests growth and dynamics. University of Maine.

Megan Grega. 2024 – present. MS Thesis topic: Red spruce (*Picea rubens*) growth and physiological responses to climate change. University of Maine.

Laura Braun. 2020 – 2023. MS Thesis: Rockweed harvests and their impacts on the intertidal system. University of Maine.

Amanda Butak. 2012 – 2014. MS Thesis: Vegetation Composition, Structure, and Ecophysiology of Maritime Ledge Ecosystems. University of Maine.

### **WEBSITES**

GitHub: <a href="https://github.com/KateMMiller">https://github.com/KateMMiller</a>

Google Scholar: <a href="https://scholar.google.com/citations?user=p8gc">https://scholar.google.com/citations?user=p8gc</a> rEAAAAJ&hl=en&oi=sra

Research Gate: <a href="https://www.researchgate.net/profile/Kathryn Miller8">https://www.researchgate.net/profile/Kathryn Miller8</a>