

# Kathryn M. Miller

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## SUMMARY

Senior Quantitative Ecologist (GS-13) with 20+ years of experience directing ecological monitoring, landscape restoration, and data science modernization across U.S. National Parks. Proven leader in developing automated analytics and decision-support tools that inform park planning, conservation policy, and climate resilience efforts across eastern parks. Recognized with multiple national awards for technical innovation, ground-breaking research, and measurable outcomes.

- Founding member of the National Park Service [Resilient Forest Initiative](#) to increase forest resilience in eastern national parks through landscape-level restoration, information sharing, and innovative science.
- Thorough knowledge of and experience sampling forest and wetland ecosystems in the Eastern US.
- Extensive experience developing and implementing long-term monitoring programs, developing ecological indicators, and integrating with management.
- Advanced statistical skills, including sample design, generalized linear mixed modelling, multivariate statistics, spatial and conditional autoregressive modelling, and machine learning.
- Advanced data science skills, including functional programming and iteration, package development, version control and GitHub, automated reporting, data wrangling and manipulation, and data visualization. Fluent in R and HTML/CSS, and experience with SQL, LaTeX, and Python.
- Extensive experience analyzing complex datasets, including the National Land Cover Database, gridded climate and weather station data, US Forest Service Forest Inventory and Analysis data, and Environmental Protection Agency National Aquatic Resource Survey data.
- Extensive experience working on and leading interdisciplinary teams for planning, monitoring, and implementation of management actions in national parks.
- Adept with GIS and GPS technologies, relational databases, spreadsheets, and word processing.

## POSITIONS/APPOINTMENTS

2025-present	Quantitative Ecologist (GS-0408-13: 1-year temporary promotion), National Park Service Biological Resources Division, Fort Collins, CO
2020-present	Quantitative Ecologist (GS-0408-12), National Park Service Inventory and Monitoring Division (NPS IMD), Northeast Temperate Network, Bar Harbor, ME
2023	Network Program Manager (GS-0408-13: 120-day temporary promotion), NPS IMD, Great Lakes Network, Ashland, WI
2023-present	Maine Ecological Reserve Scientific Advisory Committee, Augusta, ME
2020-present	External Graduate Faculty, University of Maine School of Biology and Ecology, Orono, ME
2013-2018	External Graduate Faculty, University of Maine School of Forest Resources, Orono, ME
2009-2020	Plant Ecologist (GS-0430-11), NPS IMD Northeast Temperate Network, Bar Harbor, ME
2007-2009	Natural Resources Specialist (GS-0404-09), NPS IMD Northeast Temperate Network, Bar Harbor, ME
2006	Forest Crew Leader, SUNY – ESF & NPS IMD Northeast Temp. Network, Bar Harbor, ME
2005	Consulting Botanist, School of Forest Resources, University of Maine, Orono, ME
2003	Consulting Botanist, USGS – Biological Resources Division, Ann Arbor, MI
2002-2003	Adjunct Professor of Natural Resources, Northland College, Ashland, WI
2000-2002	Plant Ecology Research Assistant, Northland College, Ashland, WI

## EDUCATION

2014-2018	University of Maine – Ph.D., Biological Sciences, Advisor: Dr. Brian McGill.
2003-2006	University of Maine – M.S., Ecology and Env. Science, Advisor: Dr. Robert Wagner
1998-2002	Northland College – B.S., Natural Resources, Summa cum laude

## AWARDS

[NPS 2023 Director's Award for Natural Resource Research](#)

## Kathryn M. Miller

NPS 2023 Regional Director's Award for Natural Resource Research  
NPS 2019 Inventory and Monitoring Division's Excellence in Science Award  
NPS 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  
University of Maine 2004 Mark W. Houseweart Memorial Award for Forest Research  
Northland College Natural Science Faculty Award for Class of 2002  
Northland College Class of 2001 Award for Class of 2002  
Northland College 2002 Matthew Berg Endowment Award for Natural Resources

### TEACHING EXPERIENCE

Winter 2025 IMD Scientist Training: Management Relevant Trend Analysis Module  
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

### 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>.  
\*Rated among the top 10 most-cited papers in *Ecological Applications* published in 2023.  
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.

## Kathryn M. Miller

- 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.
- 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.
- 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.

### PRESS COVERAGE & OUTREACH

- Pipkin, Whitney. "Park Service works to change the future of failing forests." *Bay Journal*. 24 January 2025. [https://www.bayjournal.com/news/wildlife\\_habitat/park-service-works-to-change-the-future-of-failing-forests/article\\_0ccf7d8c-da80-11ef-ab84-fbbf398aaaf0.html](https://www.bayjournal.com/news/wildlife_habitat/park-service-works-to-change-the-future-of-failing-forests/article_0ccf7d8c-da80-11ef-ab84-fbbf398aaaf0.html).
- 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.

## Kathryn M. Miller

- 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. <https://doi.org/10.36967/nrr-2286695>.
- 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.

## Kathryn M. Miller

- 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. 2024. How a regional perspective helps us understand Acadia's forests. Acadia National Park Science Symposium, Winter Harbor, ME, 10 October 2024 (invited speaker).
- 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.



## Kathryn M. Miller

- 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).

## **Kathryn M. Miller**

- Miller K.M. 2014. 8 Years of Forest Health Monitoring in Acadia National Park. Interwoods. 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. 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

### **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.