Miranda T. Curzon
Department of Natural Resource Ecology and Management
234 Science II
Iowa State University
Ames, IA 50010

EDUCATION

Ph.D. Natural Resources Science & Management (Forests: Biology, Ecology, Conservation & Management). 2014. University of Minnesota, Saint Paul, MN. *Dissertation:* Productivity, recovery, diversity, and function of aspen-dominated forests vary in response to biomass harvest severity. Advisor: Dr. Anthony W. D'Amato.

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- M.S. Natural Resources (Forestry). 2008. University of Vermont, Burlington, VT. *Thesis*: Canopy gap dynamics and spatial distribution in old-growth riparian northern hardwood-conifer forests, Adirondack Mountains, NY. Advisor: Dr. William Keeton.
- B.A. Ecology & Biodiversity, Environmental Science, Literary Studies. 2005. University of Denver, Denver, CO.

RESEARCH EXPERIENCE

2017-present	Assistant Professor. Department of Natural Resources Ecology and Management. Iowa
	State University, Ames, IA.

2015-2017	Postdoctoral Fellow.	Department of	of Interior	Northeast	Climate	Science Center	,
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2014-2017	Research Associate. The	he University of Minnesota.	St. Paul. MN.
201 1- 201/	Research Associate. 11	ne University of Minnesota.	Di. I aui, MIIV.

- 2010-2014 Graduate Research Assistant. The University of Minnesota. St. Paul, MN.
- 2005-2007 Graduate Research Assistant. University of Vermont, Burlington, VT.
- 2003 Research Assistant. University of Idaho. Moscow, Idaho.

TEACHING EXPERIENCE

Course Instruction

Assistant Professor. Iowa State University, Ames, IA (October, 2017-present)

- Instructor, FOR 302: Silviculture (4 credits; Spring 2018-2022)
- Instructor, NREM 460: Natural Resource Controversies (3 credits; Fall 2022)
- Co-instructor, FOR 206: Forestry Camp (4 credits; Fall 2018, 2019, 2021)
- Co-instructor, NREM 505: Ecological Silviculture & Wildlife (3 credits; Fall 2021)
- Co-instructor, NREM 505: NREM Reads *The Home Place: Memoir of a Colored Man's Love Affair with Nature* (1 credit; Fall 2020)
- Co-instructor, NREM 504: Forest Landscapes, Wildlife & Silviculture (3 credits; Fall 2020)
- Instructor, FOR 201: Forest Biology (2 credits; Fall 2019)
- Instructor, NREM 490/590: Advanced topics in silviculture and applied forest ecology (2 credits; Fall 2018)

Instructor. University of Minnesota, St. Paul, MN (2013-2015)

• Instructor (Spring 2015), Managing Forest Ecosystems: Silviculture (FNRM 3411/5411; 29 students)

- Instructor (Spring 2015), Managing Forest Ecosystems: Silviculture Lab (FNRM 5413; 12 students)
- Co-Instructor (Fall 2013), Ecology of Managed Systems (ESPM 3108/5108; 65 students)

Graduate Teaching Assistant. University of Minnesota, St. Paul, MN (2010)

Responsible for assisting undergraduate and graduate students with course material outside of class and managing grades on assignments and exams.

• Managing Forest Ecosystems: Silviculture (FR3411/5411; 50 students), 1 semester

Graduate Teaching Assistant. University of Vermont, Burlington, VT (2005 – 2007)

Responsible for reinforcing concepts and providing assistance to graduate and undergraduate students enrolled in multiple courses (below). Coached undergraduate students on their writing, led field trips, and facilitated group discussions.

- Natural History and Field Ecology (NR 001; 20 students), 1 semester
- Biostatistics (NR 25; 25 students), 2 semesters
- Conservation Biology (NR 224), 1 semester
- Wildlife Conservation (WFB 74), 1 semester
- Remote Sensing (NR 146), 1 semester
- Global Environmental Assessment (ENSC 130), 1 semester

Graduate advising and mentoring

Major Professor

- 1. Anne-Ultélie Poinçon. PhD student in Forestry, Iowa State University, current.
- 2. Katrina Fernald. MS student in Forestry, Iowa State University, Graduated Fall 2021.
- 3. Schwager, Julia. MS student in Forestry, Iowa State University, Graduated Fall 2020.
- 4. Lewis Weichmann. MS student in Forestry, Iowa State University, Graduated Fall 2020.

Committee Member

- 1. Samantha Myers. MS student in Environmental Conservation, University of Massachusetts Amherst, Spring 2021-present.
- 2. Carullo, Sally. MS student in Environmental Science, Iowa State University, Graduated Spring 2019.

PROFESSIONAL EXPERIENCE

Field Research Assistant. Natural Areas Program, Colorado State Parks. Denver, CO.

Monitored private land protected by voluntary conservation agreements with the Natural Areas Program, monitored endangered plant populations, and coordinated volunteers.

2008-2009 Stewardship Ecologist. The Nature Conservancy. Boulder, CO.

Managed stewardship of preserves owned by The Nature Conservancy, assessed the efficacy of conservation efforts through monitoring, collaborated with researchers on the development of studies to measure conservation success, provided map (ArcGIS) support for conservation easements, coordinated with private landowners and government agencies on addressing conservation concerns including forest restoration and invasive species management.

2008 Science Technician, Stewardship. The Nature Conservancy. Boulder, CO.

Mapped, monitored, and managed invasive species on TNC preserves, collaborated with private landowners and government agencies on invasive species management statewide, addressed stewardship concerns on TNC preserves and easements.

2007 Easement Monitoring Intern. The Nature Conservancy. Montpelier, VT.

Monitored private and public lands with conservation easements administered by TNC

and assisted with stewardship of TNC preserves.

2004-2005 NEPA Compliance Intern. National Park Service. Denver, Colorado.

Contributed to environmental impact statements, coded public comments, and provided

map (ArcGIS) support.

PUBLICATIONS

*Indicates graduate student author

RESEARCH (peer-reviewed):

2022

Curzon, M.T., Slesak, R.A., Palik, B.J., & Schwager, J.K*. 2022. Harvest impacts to stand development and soil properties across soil textures: 25-year response of the aspen Lake States LTSP installations. Forest Ecology and Management, 504, 119809. https://doi.org/10.1016/j.foreco.2021.119809

2021

Page-Dumroese, D. S., Morris, D. M., Curzon, M. T., & Hatten, J. A. 2021. The Long-Term soil productivity study after three decades. Forest Ecology and Management, 497, 119531. https://doi.org/https://doi.org/10.1016/j.foreco.2021.119531

2020

Curzon, M.T., Kern, C.C., Baker, S.C., Palik, B.J., D'Amato, A.W., 2020. Retention forestry influences understory diversity and functional identity. Ecological Applications. 30(5), e02097. https://doi.org/https://doi.org/10.1002/eap.2097

Curzon, M.T., Palik, B.J., D'Amato, A.W., and Schwager, J.* 2020. Long-term soil productivity study: 25-year vegetation response to varying degrees of disturbance in aspen-dominated forest spanning the upper Lake States. In: Pile, Lauren S.; Deal, Robert L.; Dey, Daniel C.; Gwaze, David; Kabrick, John M.; Palik, Brian J.; Schuler, Thomas M., comps. The 2019 National Silviculture Workshop: a focus on forest management-research partnerships. Gen. Tech. Rep. NRS-P-193. Madison, WI: U.S. Department of Agriculture, Forest Service, Northern Research Station: 42-52.

2019

Dymond, S.F., D'Amato, A.W., Kolka, R.K., Bolstad, P.V., Sebestyen, S., Gill, K., and Curzon, M.T. 2019. Climatic controls on peatland black spruce growth in relation to water table variation and precipitation. Ecohydrology 12(7).

2017

- Clough, B., Curzon, M.T., Russell, M., Domke, G., and Woodall, C. 2017. Climate-driven variation in stem wood density of tree species in the eastern United States: ecological impact and implications for national biomass assessments. Global Ecology and Biogeography 26(10): 1153-1164.
- Curzon, M.T., A.W. D'Amato, and B.J. Palik. 2017. Early regeneration response to aggregate overstory and harvest residue retention in Populus tremuloides (Michx.)-dominated forests. New Forests 48(5): 719-734.
- Curzon, M.T., D'Amato, A.W., Fraver, S., Palik, B.J., Gleason, A., Bottero, A., and Foster, J. 2017. Harvesting influences functional identity and diversity over time in forests of the northeastern U.S.A. Forest Ecology and Management 400: 93-99.
- Curzon, M.T., S.C. Baker, C.K. Kern, B.J. Palik, and A.W. D'Amato. 2017. Influence of mature overstory trees on adjacent 12-year regeneration and the woody understory: Aggregated retention versus intact forest. Forests 8(2): 31.
- Curzon, M.T., A.W. D'Amato, S. Fraver, E. Huff, and B.J. Palik. 2017. Succession, climate, and neighborhood dynamics influence tree growth over time: an 87-year record of change. Journal of Vegetation Science 28: 82-92.

2016 or before

- Curzon, M.T., A.W. D'Amato, and B.J. Palik. 2016. Bioenergy harvest impacts to biodiversity and resilience in woody vegetation vary across aspen-dominated forest ecosystems in the Lake States region, USA. Applied Vegetation Science 19:667-678.
- Curzon, M.T., A.W. D'Amato, and B.J. Palik. 2014. Harvest residue removal and soil compaction impact forest productivity and recovery: potential implications for bioenergy harvests. Forest Ecology and Management. 329(1): 99-107.
- Curzon, M.T. and W.S. Keeton. 2010. Spatial characteristics of canopy disturbance in riparian old-growth hemlock northern hardwood forests, Adirondack Mountains, New York, USA. Canadian Journal of Forest Research. 40: 13-25.
- Roon, D.A., **M.E. Thomas**, K.C. Kendall, and L.P. Waits. 2005. Evaluating mixed samples as a source of error in non-invasive genetic studies using microsatellites. Molecular Ecology 14(1): 195-201.

OUTREACH

- Cram, D., Curzon, M.T., Gunn, J., Leahy, J., Schmierer, J., and Smith, K. 2021. The next generation of forest stewards helps with climate change knowledge gaps. *Forest Steward* 6(1):3-6.
- Curzon, M.T., A.W. D'Amato, and B.J. Palik. 2015. Soil texture matters: the effects of removing harvest residues. Forestry Source 20(5):12. Reprinted from an online research report sponsored by the University of Minnesota Extension. http://www.myminnesotawoods.umn.edu/2014/10/researchreport-harvest-residues-and-compaction-impact-productivity

PRESENTATIONS

*Indicates graduate student author

RESEARCH (presenter in bold):

- **Slesak, R.** Curzon, M., Fleming, R., Morris, D., and Palik, B. 2021. Long-term Soil Productivity Study in the Upper Great Lakes Ecoregion: Common Findings, Management Implications, and the Need for Continued Assessment. Oral presentation (virtual) for the Soil Science Society of American Annual Meeting. Salt Lake City, UT. November 7-10.
- Wiechmann, L.* Curzon, M.T., and Palik, B.J. 2021. Adaptability of natural regeneration in redpine dominated ecosystems following experimental climate adaptation treatments. Oral presentation (virtual) for the Ecological Society of America Annual Meeting. August 3.
- **Fernald, K.*** Curzon, M.T. Wiechmann, L.J. 2021. Impacts of removing invasive honeysuckle (*Lonicera* maackii) on breeding forest birds in southern Iowa. Oral presentation (virtual) for the Ecological Society of America Annual Meeting. August 2.
- **Wiechmann, L.*** Curzon, M.T., and Palik, B.J. 2021. Climate adaptation treatment impacts on adaptability and composition of natural regeneration in red pine-dominated ecosystems 5 years post-treatment. Poster presentation (virtual) for the Northern Hardwoods Conference. June 15-16.
- **Schwager, J.K.*** Curzon, M.T., and Palik, B.J. 2021. Impacts of Biomass Harvesting and Compaction on Drought Response of Aspen-dominated Forest. Poster presentation (virtual) for the Northern Hardwoods Conference. June 15-16.
- **Fernald, K.*** Curzon, M.T. 2021. Impacts of removing invasive honeysuckle on breeding forest birds in southern Iowa. Oral presentation (virtual) for the Iowa Chapter The Wildlife Society Annual Meeting. February 9. (140+ attendees)

2020

- Curzon, M.T., Wiechmann, L*., Fernald, K. *, Palik, B.J., and Harms, T. 2020. Silviculture and Applied Forest Ecology Research in Upper Midwestern Forest Ecosystems. Poster (virtual) for The Nature Conservancy Conservation Science Summit. Oct. 5.
- **Wiechmann, L.*** Curzon, M.T., and Palik, B.J. 2020. Community composition of Pinus- resinosadominated stands five years after experimental harvest. Oral presentation for the Department of Natural Resource Ecology and Management Graduate Ignite Talks. March 6.(~50 attendees)
- **Schwager, J.*,** Curzon, M.T., and Palik, B.J. 2020. Impacts of harvest and drought on aspendominated forests in the Lake States. Oral presentation for the Department of Natural Resource Ecology and Management Graduate Ignite Talks. March 6. (~50 attendees)
- **Fernald, K.*** and Curzon, M.T. 2020. Forest breeding bird community response to invasive honeysuckle removal. Oral presentation for the Department of Natural Resource Ecology and Management Graduate Ignite Talks. March 6. (~50 attendees)
- **Wiechmann**, L.J.*, Curzon, M.T., and Palik, B.J. 2020. Future adaptability of natural regeneration in red pine-dominated stands following experimental harvest. Oral Presentation at the Forestry and Wildlife Research Review. Cloquet, MN. January 9. (120 attendees)

2019

Curzon, M.T., Kern, C.C., Baker, S.C., Palik, B.J., and D'Amato, A.W. 2019. Aggregated retention influences understory functional identity and diversity in similar, but not identical ways to intact forest. Seminar at the North American Forest Ecology Workshop. Flagstaff, AZ. June 25.

2018

Bottero, A., Curzon, M.T., D'Amato, A.W.,, Palik, B.J., Bradford, J.B., Fraver, S., Hutchison, T.F., Lhotka, J.M., Vitasse, Y., and Rigling, A. 2018. Effetto della riduzione della densità del popolamento sulla resilienza alla siccità degli ecosistemi forestali. Seminar at the IV Congresso Nazionale Di Selvicoltura. November 5-9.

- **Foster, J.R.** D'Amato, A.W., Itter, M., Reinikainene, M., and Curzon, M.T. 2017. Landsat Timeseries for the masses: Predicting wood biomass growth from tree-rings using departures from mean phenology in Google Earth Engine. Invited poster at the American Geophysical Union Fall Meeting. December 11.
- Curzon, M.T., D'Amato, A.W., Fraver, S., Palik, B.J., Gleason, A., Bottero, A., and Foster, J. 2017. Harvesting influences functional identity and diversity in forests across the northeastern USA. Poster at the Society of American Foresters Annual Convention. Albuquerque, NM. November 16.
- Curzon, M.T., D'Amato, A.W., Fraver, S., Palik, B.J., Bradford, J.B., Gleason, A., Bottero, A., and Foster, J. 2017. Impacts of climate, disturbance, and management on the growth and dynamics of northern forest ecosystems. Poster at the Northeast Climate Science Center Regional Meeting. Amherst, MA. May 15.

2016 or before

- Curzon, M.T. A.W. D'Amato, C. Kern, B.J. Palik, S. Baker. 2016. Retention forestry: Implications for diversity and function in aspen-dominated forests. Seminar at the Society of American Foresters Annual Convention. Madison, WI. November 5.
- Curzon, M.T., D'Amato, A.W., Fraver, S., Foster, J.R., Palik, B.J., Bradford, J.B., Botterro, A., Gleason, K.E. 2016. Management influences functional composition and diversity in northern hardwood and mixed conifer forests of New England, USA. Seminar at ECANUSA Forest Science Conference, Burlington, VT. September 30 (35 attendees).
- Curzon, M.T., D'Amato, A.W., Fraver, S., Foster, J.R., Bradford, J.B., Palik, B.J., Gleason, K., and Boterro, A. 2016. Management influences functional identity and functional diversity in northern forests across the northeastern USA. Seminar at 101st Annual Meeting of the Ecological Society of America, Fort Lauderdale, FL. August 10 (12 attendees).
- **Dymond, S.,** R. Kolka, P. Bolstad, K. Gill, M. Curzon, and A. D'Amato. 2015. Excess growing-season water limits lowland black spruce productivity. Poster at the American Geophysical Fall Meeting. San Francisco, CA. December 16.
- Curzon, M.T., A.W. D'Amato, and B.J. Palik. 2015. Aspen-Dominated Forest Response to Organic Matter Removal and Compaction Varies with Site Conditions. Invited seminar at the Soil Science Society of America Annual Meeting, Minneapolis, MN. November 16 (30 attendees).
- **Curzon, M.T.,** A.W. D'Amato, and B.J. Palik. 2015. Historic patterns of neighborhood crowding and composition influence growth of red pine. Seminar at 10th North American Forest Ecology Workshop, Veracruz, Mexico. (40 attendees).
- **Curzon, M.T.,** A.W. D'Amato, and B.J. Palik. 2013. Biomass harvests in the Lake States: How aggregated overstory retention and residual woody debris influence the understory. Seminar at 9th North American Forest Ecology Workshop, Bloomington, IN. (15 attendees).
- **Curzon, M.T.**, A.W. D'Amato, and B.J. Palik. 2013. Functional responses to varying disturbance severities 15 years following biomass harvests in aspen forests. Seminar at 98th Annual Meeting of the Ecological Society of America. Minneapolis, MN. (30 attendees).
- **Curzon, M.T.,** A.W. D'Amato, and B.J. Palik. 2012. Harvest-related disturbance effects on species richness and community composition in Lake States aspen-dominated forests. Seminar at 97th Annual Meeting of the Ecological Society of America. Portland, OR. (15 attendees)
- **Keeton, W.S.**, C.E. Kraft, D.R. Warren, J.P. Stovall, and M.T. Curzon. 2012. A re-evaluation of biomass dynamics and riparian functions in late-successional forests of the northeastern U.S. Invited Seminar at the 97th Annual Meeting of the Ecological Society of America. Portland, OR.

- Curzon, M.T., A.W. D'Amato, and B.J. Palik. 2011. Productivity and species composition response to biomass removal and soil compaction in aspen-dominated forests of the Lake States. Seminar at 8th North American Forest Ecology Workshop. Roanoke, VA. June 20 (32 attendees).
- **Keeton, W.S.**, C. Kraft, J. Stovall, M.T. Curzon, D.R. Warren, and J. Nunery. 2009. Old-growth riparian forests have dramatic effects on Adirondack stream habitats: a synthesis of seven years of research. Seminar at the Adirondack Research Consortium, Old Forge, N.Y., March 4-5.
- **Curzon, M.** T., and W.S. Keeton. 2007. Canopy gap dynamics in old-growth riparian forests along low order streams, Adirondack Mountains, NY. Seminar at 92nd Annual Meeting of the Ecological Society of America, San Jose, CA.
- **Thomas, M. E.** and R. L. Sanford, Jr. 2005. Lower treeline in the Front Range foothills. Poster at 90th Annual Meeting of the Ecological Society of America, Montreal, Canada.
- **Thomas, M.** E., D. A. Roon, L. P. Waits, and K. C. Kendall. 2004. Mixed hair samples from grizzly bear populations: an assessment of noninvasive genetic sampling methods. Poster at the 89th Annual Meeting of the Ecological Society of America, Portland, OR.

OUTREACH (presenter in bold):

2017-2021

- **Curzon, M.T**. 2021. An introduction to the Adaptive Silviculture for Climate Change (ASCC) Network. Seminar for the Iowa SAF Fall Meeting. October 20.
- **Curzon, M.T.** 2020. Projected Shifts in Tree Habitat Suitability and Implications for Silviculture. Seminar for the Iowa SAF Adaptation Planning and Practices for Iowa's Forests Workshop. December 7.
- **Curzon, M.T**. 2020. Adaptive silviculture for climate change at Yellow River State Forest. Yellow River State Forest (virtual) Field Day. October 15.
- **Wiechmann**, L.J.*, Curzon, M.T., and Palik, B.J. 2020. Future adaptability of natural regeneration in red pine-dominated stands following experimental harvest. Forestry and Wildlife Research Review. Cloquet, MN. January 9.
- Curzon, M.T., Palik, B.J., D'Amato, A.W., and Schwager, J.* 2019. Vegetation response to soil compaction and biomass removal in Lake States aspen-dominated forest. Seminar at the USFS National Silviculture Workshop. Bemidji, MN. May 23.
- **Curzon, M.T.** 2018. Forest ecosystems of Iowa. Recorded lecture for the Master Conservationist Program.

Before 2017

- Curzon, M.T., A.W. D'Amato, B.J. Palik, and C.K. Kern. 2016. Influence of aggregated overstory retention on regeneration and biodiversity in aspen-dominated forests. Annual Forest and Wildlife Research Review, Cloquet, MN, January 12. 125 attendees.
- Curzon, M.T., A.W. D'Amato, and B.J. Palik. 2015. Succession and related neighborhood dynamics influence growth of red pine over 87 years. Invited seminar at the Chequamegon-Nicolet National Forest. October 22. 10 attendees.
- **Curzon, M.T.**, A.W. D'Amato, and B.J. Palik. 2015. Aspen-dominated forest response to harvest residue removal and compaction varies with site conditions. Invited seminar at the Chippewa National Forest Science Meeting, Bemidji, MN. March 17. 60 attendees.
- **Curzon, M.T.**, A.W. D'Amato, and B.J. Palik. 2015. Forest response to harvest residue removal and associated practices varies with site conditions. Invited seminar at the Annual Forest and Wildlife Research Review, Cloquet, MN. February 24. 120 attendees.

Curzon, M.T., A.W. D'Amato, and B.J. Palik. 2011. Forest productivity response to organic matter removal and soil compaction in aspen-dominated forests of the Lake States. Poster at the 8th Annual Forestry, Wildlife, and Natural Resources Research Review, Cloquet, MN. February 22.

GRANTS (Total awarded = \$542,632)

Awarded

Attacking honeysuckle from the air: Evaluating forest and wildlife responses to aerial applications of glyphosate. *Federal Aid in Wildlife Restoration*, *US Fish & Wildlife Service*. (\$259,050; \$136,165 to ISU). PIs: T. Harms and **M. Curzon.** 2018-2021.

Restoring Adaptive Capacity in Driftless Area forests. USFS Landscape Scale Restoration Competitive Process, USDA Forest Service State & Private Forestry. (\$281,477; \$112,313 to ISU). PIs: M. Curzon and Jeff Goerndt.

Impact of honeysuckle removal on forest bird communities in southern Iowa. Iowa Department of Natural Resources Biodiversity Program Small Grants. PIs: Katrina Fernald and M. Curzon. 2020-2021.

PROFESSIONAL MEMBERSHIPS

Ecological Society of America Society of American Foresters Forest Stewards Guild Xi Sigma Pi (Forestry Honors Society)

UNIVERSITY SERVICE

- Faculty Advisor, Xi Sigma Pi, Alpha Gamma Chapter (2018-present)
- Member, NREM Diversity, Equity, and Inclusion Committee, 2019-present
- Member, NREM Curriculum Committee, 2021-present
- Member, ISU Campus Tree Advisory Committee, 2019-present
- Member, Faculty Search Committee (Assistant Professor of Fisheries/Aquaculture), 2022
- Member, Faculty Search Committee (Department Chair, Department of Natural Resource Ecology and Management), 2021
- Member, Faculty Search Committee (Assistant Professor of Forestry), 2018

PROFESSIONAL SERVICE

- Chair elect, Iowa Society of American Foresters (2022-present)
- Officer (Science and Technology), Society of American Foresters Iowa Chapter (2018-present)
- Reviewer: Ecology, New Forests, Forest Ecology and Management, Biodiversity and Conservation, Canadian Journal of Forest Research, Environmental Planning and Management, Forests, Forest Science, Soil Science Society of America Journal
- USFS and USGS friendly reviews
- Volunteer, Natural Resources Association of Graduate Students, University of Minnesota. (2012-2014)

• Judge, Academy for Science and Agriculture Annual Science Fair, Vadnais Heights, MN. (2012-2014)

FELLOWSHIPS AND AWARDS

- UMN Postdoctoral Career Development Award, \$400 (2016)
- University of Minnesota Doctoral Dissertation Fellowship, \$22,500 plus tuition (2013-2014)
- Student scholarship, North American Forest Ecology Workshop, \$350 (2011)

PROFESSIONAL DEVELOPMENT

- Project LE/ARN Workshop. Iowa State University. May, 2018.
- Implicit Bias Workshop. Iowa State University. September 29, 2018.
- USGS Climate Science Center Early Career Training. November 1-3, 2016. Amherst, MA.
- Preparing Future Faculty: Teaching in Higher Education. January-May, 2013. (3 credits)
- North American Dendrochronological Fieldweek. May 28-June 5, 2012. Jemez Springs, NM.
 - Efroymson coaches' training (The Nature Conservancy). 2008. Allenspark, CO.