

## Yvette L. Dickinson

Assistant Professor  
College of Forest Resources and Environmental Science  
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### Education

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- 2011      **Doctor of Philosophy (Ph.D.)** in Forest Resources, The Pennsylvania State University, PA.  
Dissertation: The influence of silvicultural management on forest structure  
Supervisor: Dr. Eric Zenner
- 2008      **Master of Science (M.Sc.)** in Environmental Science with first class honors, University of  
Canterbury, New Zealand  
Thesis: The spatial patterning of *Hieracium pilosella* L. invaded short tussock grasslands  
Supervisor: Dr. David Norton
- 2004      **Bachelor of Forestry Science (B.For.Sc.)** with first class honors, University of Canterbury, New  
Zealand  
Honors dissertation: The ecological management planning of native plants on plantation forest  
estates  
Supervisor: Dr. David Norton

### Professional Experience

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- May 2020 – present  
    **Associate Professor of Silviculture**, College of Forest Resources and Environmental Sciences,  
    Michigan Technological University, MI.
- Aug. 2014 – May 2020  
    **Assistant Professor of Silviculture**, College of Forest Resources and Environmental Sciences,  
    Michigan Technological University, MI.
- Jan. 2012 – July 2014  
    **Temporary Assistant Professor**, Colorado Forest Restoration Institute, Forest and Rangeland  
    Stewardship, Colorado State University, CO.
- Jan. 2004 – Dec. 2007  
    **Forestry Advisor** (Warranted Forestry Officer under Part IIIA of Forests Act 1949), Indigenous  
    Forestry Unit (IFU), Ministry of Agriculture and Forestry, New Zealand

### Awards

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- Technology Transfer Publication Award (2017) – Awarded by the US Forest Service Rocky Mountain Research  
Station to Tinkham, W.T., **Dickinson, Y.**, Hoffman, C.M., Battaglia, M.A., Ex, S., Smith, F. and Underhill, J. (2017)  
*Visualization guide to heterogeneous forest structures following treatment in the southern Rocky Mountains*. Gen.  
Tech. Rep. RMRS-GTR-365. Fort Collins, CO. U.S. Department of Agriculture, Forest Service, Rocky Mountain  
Research Station. 72p.
- Graham Whyte Forestry Prize (2009) – Awarded annually to the top graduate student at the New Zealand School of  
Forestry, University of Canterbury – NZ\$500
- Todd Foundation for Excellence Award (2007) – Jointly awarded by the New Zealand Vice-Chancellors' Committee  
and the Todd Foundation for Excellence – NZ\$5,000
- Pukehou Pouto Scholarship (2007) – Awarded by the New Zealand Vice-Chancellors' Committee – NZ\$10,000

Sadie Balkind Award (2007) – Awarded by the Canterbury Branch of the New Zealand Federation of Graduate Women – NZ\$500

Laura J Clad Memorial Scholarship (2007) – Awarded by the University of Canterbury – NZ\$2,400 (award declined due to conditions of acceptance)

New Zealand Institute of Forestry (NZIF) Undergraduate Scholarship (2003) – Awarded to an undergraduate student at a New Zealand University studying in a forestry related field – NZ\$1,000

M.R. Jacobs Prize for Silviculture (2002) – Awarded annually to the top student in silviculture at each forestry school within Australia and the New Zealand School of Forestry – Book Prize

Kitchener Memorial Scholarship (2000) – Awarded by the New Zealand Vice-Chancellors' Committee – NZ\$500

## Research grants

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\$2,140,941 total external research funding as PI or Co-PI, and \$189,967 internal support as PI or Co-PI

- 2019 – 2024 **NSF Growing Convergence Research Collaborative Research: GCR: A Convergent Discipline in Socio-Technological System Transitions: Research on Michigan Community & Anishinaabe Renewable Energy Sovereignty (MICARES)** – \$3,600,000 project total (\$153,599 direct funding for my contribution)  
Senior Personnel on large collaborative project led by Dr. Kathleen Halvorsen (PI, Michigan Tech), Dr. Doug Bessette (PI, Michigan State University), and Evelyn Ravidran (PI, Keweenaw Bay Indian Community).
- 2017 – 2022 **US Department of Agriculture, Agriculture and Food Research Initiative (AFRI) Foundational Program Novel timber production systems to protect productivity and sustainability of Northern Hardwoods in the North-Central region** – \$500,000  
PI on project with Dr. Christopher Webster (Michigan Tech), and Dr. Robert Froese (Michigan Tech)
- 2018 – 2021 **McIntire-Stennis program Gathering Giizhik (Northern White Cedar) in a changing landscape** – \$24,000  
Principle Investigator
- 2016 – 2021 **National Park Service Great Lakes Northern Forest CESU: Beech reintroduction at Pictured Rocks National Lakeshore and Sleeping Bear Dunes National Lakeshore** – \$492,045  
PI on project with Dr. Andrew Storer (Michigan Tech), and Dr. Tara Bal (Michigan Tech)
- 2019 **Ecosystem Science Center, Michigan Technological University Developing a northern white cedar swamp map for Michigan's Upper Peninsula** – \$7,000  
Co-PI on project with Dr. Rodney A. Chimner (PI, Michigan Tech), and Robin Clark (Co-PI, Michigan Tech)
- 2017 – 2019 **US Forest Service, Forest Products Lab Effect of silvicultural practices on the physical and mechanical properties of Lake States Hardwoods** – \$60,333  
Co-PI on project with Dr. Xiping Wang (US Forest Service)
- 2016 – 2019 **2016 Wood Innovations Funding Opportunity, US Department of Agriculture, Forest Service Ensuring salvaged, beetle-killed trees are utilized for the highest and best use through the application of new technologies** – \$344,277  
PI on project with Dr. Robert (Bob) Ross (US Forest Service), Dr. Xiping Wang (US Forest Service), John Forsman (Michigan Tech), Dr. Mark Rudnicki (Michigan Tech), Dr. Xinfeng Xie (Michigan Tech)
- 2014 – 2018 **McIntire-Stennis program Increasing species diversity and landscape-scale forest complexity of Northern hardwood forests through even- and two-aged management** – \$28,000  
Principle Investigator

- 2017 **American Forest Management, Inc.** *Evaluation of strip-clearcutting on Northern Hardwoods to regenerate hard maple* – \$7,298  
Co-PI on project with Dr. Christopher Webster (Michigan Tech)
- 2014 – 2017 **Joint Fire Science Program** *Assessing factors that influence landscape fuels treatment effectiveness* – \$337,343  
Co-PI on project with Dr. Chad Hoffman (PI, Colorado State University) and Dr. William ‘Ruddy’ Mell (Co-PI, US Forest Service), Dr. Seth Ex (Co-PI, Colorado State University) and Dr. Russell Parsons (Co-PI, US Forest Service)
- 2016 **American Forest Management, Inc.** *Evaluation of strip-clearcutting on Northern Hardwoods to regenerate hard maple* – \$6,350  
Co-PI on project with Dr. Christopher Webster (Michigan Tech)
- 2014 – 2016 **Warner College of Natural Resources Chevron Fellowship 2014** *Management of sudden aspen decline (SAD) on private land in Piceance Basin, CO* – \$137,440  
Co-PI on project with Dr. Tony Cheng (PI, Colorado State University) and Dr. Wayne Shepherd (Co-PI, Retired US Forest Service)
- 2013 – 2016 **Joint Fire Science Program** *Assessing the effectiveness of spatially heterogeneous fuels reduction restoration treatments* – \$338,915  
Co-PI on project with Dr. Chad Hoffman (PI, Colorado State University), Dr. Michael Battaglia (Co-PI, US Forest Service), Dr. Anthony Cheng (Co-PI, Colorado State University), and Dr. Fredrick Smith (Co-PI, Retired Colorado State University)
- 2015 **Huron Mountain Wildlife Foundation** *Restoration of fire-dependent, mixed-pine forests in upper Michigan: the effect on bird communities, forest structure, and understory vegetation* – \$2,380  
PI on project with Dr. R. Gregory Corace, III (PI, US Fish and Wildlife Service), Dr. P. Charles Goebel (Cooperator, Ohio State University), and Dr. Daniel M. Kashian (Cooperator, Wayne State University)
- 2015 **Michigan Technological University Research Excellence Fund – Infrastructure Enhancement (REF-IE)** *Remote data acquisition from forests, streams and wildlife for research and instruction* – \$45,527  
Co-PI on project with Dr. Andrew Burton (PI, Michigan Tech), Dr. Joseph Wagenbrenner (Michigan Tech), Dr. Amy Marcarelli (Michigan Tech), and Dr. Robert Froese (Michigan Tech)
- 2007 – 2008 **Miss E L Hellaby Grassland Research Trust** *Spatial patterning of Hieracium invaded short tussock grassland communities* – NZ\$10,150  
Principle Investigator

## Peer-Reviewed Publications

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Note: \* indicates student co-author

Hupperts, S. F.\*, Webster, C. R., Froese, R. E., Lilleskov, E., Marcarelli, A. and **Dickinson, Y.L.** (2020) Increasing ground-layer plant taxonomic diversity masks declining phylogenetic diversity along a silvicultural disturbance gradient. *Canadian Journal of Forest Research*.

Hupperts, S. F.\*, Webster, C. R., Froese, R. E., and **Dickinson, Y.L.** (2020). Seedling and sapling recruitment following novel silvicultural treatments in Great Lakes northern hardwoods. *Forest Ecology and Management* 462: 117983.

Vickers, L.A., McWilliams, W.H., Knapp, B.O., D’Amato, A.W., Dey, D.C., **Dickinson, Y.L.**, Kabrick, J.M., Kenefic, L.S., Royo, A.A., Saunders, M.R., Shifley, S.R. and Westfall, M.R., (2019) Are current seedling demographics poised to regenerate northern US forests? *Journal of Forestry* fvz046: 1–21

**Dickinson, Y.L.**, Battaglia, M.A. and Asherin, L. (2019) Evaluation of the GENGYM diameter growth model and potential modifications in structurally-complex ponderosa pine (*Pinus ponderosa* Douglas ex C. Lawson) forests. *Journal of Forest Ecology* 448: 1–10

- Dickinson, Y.L.**, Wang, X., Wiedenbeck, J. and Ross, R.J. (2019) *Effects of silvicultural practices on engineering properties of northern hardwood species of the Great Lakes region — A Literature Review*. General Technical Report FPL-GTR-269. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory. 17p.
- Addington, R.N., Aplet, G.H., Battaglia, M.A., Briggs, J.S., Brown, P.M., Cheng, T.S., **Dickinson, Y.**, Feinstein, J.A., Fornwalt, P.J., Gannon, B., Julian, C., Pelz, K.A., Regan, C.M., Thinnis, J., Truex, R., Underhill, J. and Wolk, B. (2018) *Principles and practices for the restoration of ponderosa pine and dry mixed-conifer forests of the Colorado Front Range*. Gen. Tech. Rep. RMRS-GTR-372. Ft Collins, CO. US Department of Agriculture, Forest Service, Rocky Mountain Research Station. 121p.
- Fahey, R.T., Alvshere, B., Burton, J.I., D'Amato, A., **Dickinson, Y.L.**, Keeton, W.S., Kern, C.C., Larson, A.J., Palik, B.J., Puettmann, K.J., Saunders, M.R., Webster, C.R., Atkins, J.W., Gough, C.M., Hardiman, B.S. (2018) Shifting conceptions of complexity in forest management and silviculture. *Forest Ecology and Management*. 421:59–71
- Hupperts, S.F.\* **Dickinson, Y.L.**, Webster, C.R., Kern, C.C. (2018) Promoting structural and species diversity in Great Lakes northern hardwoods: a conceptual model and its application. *Forestry: An International Journal of Forest Research* <https://doi.org/10.1093/forestry/cpy026>
- McWilliams, W.H., Westfall, J.A., Brose, P.H., Dey, D.C., D'Amato, A.W., **Dickinson, Y.L.**, Fajvan, M.A., Kenefic, L.S., Kern, C.C., Laustsen, K.M., Lehman, S.L., Morin, R.S., Ristau, T.E., Royo, A.A., Stoltman, A.M. and Stout, S.L. (2018) *Subcontinental-scale patterns of large-ungulate herbivory and synoptic review of restoration management implications for midwestern and northeastern forests*. Gen. Tech. Rep. NRS-182. Newtown Square, PA. U.S. Department of Agriculture, Forest Service, Northern Research Station. 24 p. <https://doi.org/10.2737/NRS-GTR-182>
- Webster, C.R., **Dickinson, Y.L.**, Burton, J.I., Frelich, L.E., Jenkins, M.A., Kern, C.C., Raymond, P., Saunders, M.R., Walters, M.B., Willis, J.L. (2018) Promoting and maintaining diversity in contemporary hardwood forests: confronting contemporary drivers of change and the loss of ecological memory. *Forest Ecology and Management* 421: 98–108 (Tamm Review)
- Widen, M.J.\*, Petras O'Neil\*, M.A., **Dickinson, Y.L.**, Webster, C.R. (2018) *Rubus* persistence within silvicultural openings and its impact on regeneration: The influence of opening size and advance regeneration. *Forest Ecology and Management* 427: 162–168
- Dickinson, Y.L.** and Cadry, J.\* (2017) Evaluation of tree designation methods for implementing spatially heterogeneous restoration: a mixed methods study. *Journal of Sustainable Forestry* 36(1):47–64
- Tinkham, W.T., **Dickinson, Y.**, Hoffman, C.M., Battaglia, M.A., Ex, S., Smith, F. and Underhill, J. (2017) *Visualization of forest structures following treatment in the southern Rocky Mountains*. Gen. Tech. Rep. RMRS-GTR-365. Fort Collins, CO. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 72p.
- Dickinson, Y.L.**, Giles, E.\*, Pelz, K.\* and Howie, J.\* (2016) Have we been successful? Monitoring horizontal forest complexity for forest restoration projects. *Restoration Ecology* 24(1): 8–17
- Vakili, E.\*, Hoffman, C. M., Keane, R. E., Tinkham, W. T., and **Dickinson, Y.** (2016). Spatial variability of surface fuels in treated and untreated ponderosa pine forests of the southern Rocky Mountains. *International Journal of Wildland Fire* 25(11): 1156–1168
- Dickinson, Y.** (2014) Landscape restoration of a forest with a historically mixed-severity fire regime: What was the historical landscape pattern of openings and canopy? *Forest Ecology and Management* 331: 264–271
- Dickinson, Y.L.**, Zenner, E.K., and Miller, D.A. (2014) Examining the effect of diverse management strategies on landscape scale patterns of forest structure in Pennsylvania using novel remote sensing techniques. *Canadian Journal of Forest Research* 44: 301–312
- Underhill, J., **Dickinson, Y.L.**, Rudney, A. and Thinnis, J. (2014) Silviculture of the Colorado Forest Restoration Initiative. *Journal of Forestry* 112(5): 484–493
- Zenner, E.K., **Dickinson, Y.L.** and Peck, J. E. (2013) Recovery of forest structure and composition to harvesting in different strata of mixed even-aged central Appalachian hardwoods. *Annals of Forest Science* 70(2): 151–159

**Dickinson, Y.L.** and Norton, D. A. (2011) Divergent fine-scale spatial patterns in New Zealand's short tussock grasslands. *New Zealand Journal of Ecology* 35(1): 76–82

**Dickinson, Y.L.** and Zenner, E. K. (2010) Allometric equations for the aboveground biomass of selected common eastern hardwood understory species. *Northern Journal of Applied Forestry* 27(4): 160–165

Norton, D. A., **Dickinson, Y.** and Van Leuween, M. (2007) Ecology of a *Ranunculus lyallii* population at its eastern distributional limit in Canterbury. *New Zealand Journal of Botany* 45(1): 81–85

## Other Publications

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Note: \* indicates student co-author

**Dickinson, Y.L.**, Battaglia, M.A. and Asherin, L.A. (2017) Evaluation of the FVS-CR Diameter Growth Model and Potential Modifications in Structurally-Complex Ponderosa Pine Forests. In: Keyser, C.E., Keyser, T.L. (eds.) Proceeding of the 2017 Forest vegetation simulator (FVS) e-Conference. e-Gen. Tech. Rep. SRS-GTR-224. Asheville, NC. U.S. Department of Agriculture Forest Service, Southern Research Station.

Gauthier, R.\* and **Dickinson, Y.** (2016) The effect of deer browse on a northern hardwood forest in Baraga County, MI. *Partners News*, April 2016. Partners in Forestry Landowner Cooperative. Conover, WI.

**Dickinson, Y.L.** and Giles, E.\* (2014) *Monitoring landscape-scale forest heterogeneity: A protocol*. CFRI-TB-1404. Colorado Forest Restoration Institute, Ft Collins, CO. 24p.

**Dickinson, Y.L.** and the Front Range Roundtable Spatial Heterogeneity Subgroup. (2014) *Desirable Forest Structures for a Restored Front Range*. Colorado Forest Restoration Institute, Colorado State University, Technical Brief CFRI-TB-1402, Fort Collins, CO. 23p.

Pelz, K.A.\* , **Dickinson, Y.L.** (2014) *Monitoring forest cover spatial patterns with aerial imagery: A tutorial*. CFRI-TB-1401. Colorado Forest Restoration Institute, Ft Collins, CO. 47p.

Miller, R.M., **Dickinson, Y.** and Reid, A. (2007) Maori connections to forestry. In: Feary, S. (Ed.) *Forestry for indigenous peoples: learning from experiences with forest industries – Papers from Technical Session 130, XXII IUFRO World Congress 2005*. Australian National University, Canberra, ACT.

## Reports and Theses

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Note: \* indicates student co-author

Hupperts, S.\* , **Dickinson, Y.**, and Webster, C.R. (2017) *Evaluation of strip-clearcutting on Northern Hardwoods to regenerate hard maple: The understory response*. Unpublished report prepared for American Forest Management, Inc.

Hupperts, S.\* , **Dickinson, Y.**, and Webster, C.R. (2016) *Evaluation of strip-clearcutting on Northern Hardwoods to regenerate hard maple*. Unpublished report prepared for American Forest Management, Inc.

Gauthier, R.\* , and **Dickinson, Y.** (2015) *JOMAR canopy gap regeneration study*. Unpublished report compiled for Mr. John MacInnis

Wysocki, A.\* , Corace, III, R.G., **Dickinson, Y.L.**, and Weiss, S.A. (2015) *Restoration of fire-dependent, mixed-pine forests in Upper Michigan: The effect on bird communities, forest structure, and understory vegetation*. Unpublished report prepared for the Huron Mountain Wildlife Foundation

**Dickinson, Y.L.**, Giles, E.\* , Pelz, K.\* and Howie, J.\* (2015) *Stand- and landscape-scale forest heterogeneity on Colorado's Front Range: monitoring report of the spatial heterogeneity subgroup for the 2010–2013 restoration treatments*. Colorado Forest Restoration Institute, Colorado State University, Monitoring Report CFRI-MR-1501. Fort Collins, CO. 177p.

Young, N., Reeder, C., Addington, R., **Dickinson, Y.**, Evangelista, P. and Cheng, T. (2013) *Colorado Front Range Collaborative Forest Landscape Restoration Project: 2011–2012 Pre- and post-treatment stand structure analyses for the Pike and San Isabel and Arapaho and Roosevelt National Forests*. Colorado Forest Restoration Institute, Ft Collins, CO.

**Dickinson, Y.** (2011). *The influence of silvicultural management on forest structure*. Ph.D. Dissertation. The

Pennsylvania State University, State College, PA.

**Dickinson, Y.** (2008). *The spatial patterning of Hieracium pilosella invaded short tussock grasslands*. M.Sc. Thesis. University of Canterbury, Christchurch, New Zealand

**Dickinson, Y.** (2003). *The ecological management planning of native plants on plantation forest estates*. B.Sc. Honors Dissertation. University of Canterbury, Christchurch, New Zealand

### Oral and Poster Presentations

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Note: \* indicates student presenter or co-presenter

Bal, T., **Dickinson, Y.**, Froese, R., Hyslop, M., Jarvi, M., Schmierer J., Webster, C., and Wolfe, J. (2020) *The Changing Climate of Natural Resource Education*, 13th Biennial Conference on University Education in Natural Resources, Mar. 12-14, Missoula, MT

**Dickinson, Y.L.** (2020) *Re-introducing American Beech into Pictured Rocks and Sleeping Bear Dunes National Lakeshores*. Association of Consulting Foresters Michigan Chapter, Feb. 24-25, Grayling, MI. (Invited)

**Dickinson, Y.L.**, Hupperts, S.F.\*, Webster, C.R. (2019) *Hardwood regeneration challenges - High deer population*. Michigan Society of American Foresters Statewide Meeting, Oct. 10–11, Escanaba, MI. (Invited)

**Dickinson, Y.L.**, Edson, C.B., Froese, R.E., Kelly, M.C., Schmierer, J.M., Webster, C.R. and Wolfe, J.D. (2019) *NH-SEED: a holistic experiment to revisit classical and test novel silvicultural systems in a changing world*. Society of American Foresters, Oct. 30–Nov. 3 Nov, Louisville, KY. (Poster)

**Dickinson, Y.L.**, Edson, C.B., Froese, R.E., Kelly, M.C., Schmierer, J.M., Webster, C.R. and Wolfe, J.D. (2019) *Introducing the NH-SEED: a holistic experiment to revisit classical and test novel silvicultural systems in a changing world*. North American Forest Ecology Workshop, 23–27 June, Flagstaff, AZ. (Poster)

Hupperts, S.F.\*, **Dickinson, Y.L.**, Webster, C.R., and Froese, R.E. (2019) *Resilience of functional diversity in a northern hardwood community: Does severity of canopy or forest floor disturbances matter more?* Ecological Society of America, and United States Society for Ecological Economics Joint Meeting, Aug. 11–16, Louisville, KY.

Myers, A.L.\*, Bal, T.L., **Dickinson, Y.L.**, Leutscher, B., and Storer, A.J. (2019) *Investigating the driving forces in severity of beech bark disease to guide restoration efforts in Northern Michigan*. Ecological Society of America, and United States Society for Ecological Economics Joint Meeting, Aug. 11–16, Louisville, KY.

Clark, R.\*, **Dickinson, Y. L.**, Clark, E., Martin, E., Mayer, A. L., Chimner, R. A., Baird, M. F. (2019) *Gathering Giizhik on a changing landscape*. Taking Care of Our Land Symposium – Gdo Akiiminaan Ganawendanaan, Algoma University, May 6–9, Sault Ste. Marie, ON.

**Dickinson, Y.** (2018) *Revisiting old ideas and testing new ones: The Northern Hardwood Silviculture Experiment to Enhance Diversity (NHSEED)*. Wisconsin Society of American Foresters Statewide Meeting, 12 Sept. Rothschild, WI. (Invited)

**Dickinson, Y.** (2018) *Silviculture for a changing world*. St Croix Forestry Conference, Managing the North Woods for the Future, Feb. 28, Sandstone, MN. (Invited)

Hovde, T.\*, **Dickinson, Y.**, Forsman, J., Wang, X., Ross, R., Xie, X., Rudnicki, M. (2018) *Nondestructive evaluation of wood quality in dead-standing white spruce (Picea glauca)*. Society of American Foresters, 3–6 Oct, Portland, OR. (Poster)

Hupperts, S.F.\*, **Dickinson, Y.L.**, Webster, C.R., Froese, R.E. (2018) *Silvicultural systems to maintain and restore diversity in Great Lakes northern hardwoods*. Society of American Foresters, 3–6 Oct, Portland, OR. (Poster)

Hupperts, S.F.\*, **Dickinson, Y.L.**, Webster, C.R., Froese, R.E. (2018) *Environmental conditions mediate a rapid shift in plant communities following timber harvest*. Ecological Society of America, 5–10 Aug, New Orleans, LA. (Poster)

Myers, A.L.\*, **Dickinson, Y.L.**, Storer, A.J., and Leutscher, B. (2018) *Regeneration response to beech bark disease in an affected forest in Pictured Rocks National Lakeshore, Munising, MI*. Society of American Foresters, 3–6 Oct, Portland, OR. (Poster)

- Dickinson, Y.**, Battaglia, M., and Asherin, L. (2017) *Evaluation of the FVScr diameter growth model and potential modifications in structurally-complex ponderosa pine forests*. eFVS Forest Vegetation Simulator e-Conference, Feb. 28–Mar. 2, Online.
- Kelly, M.C., **Dickinson, Y.**, Schmierer, J. and Hupperts, S.\* (2017) *Creating artificial windthrow using a single grip harvester*, 2017 National Society of American Foresters Convention, Nov. 15–19, Albuquerque, NM.
- Myers, A.L.\*, **Dickinson, Y.L.**, Storer, A.J., and Leutscher, B. (2017) *Condition of American beech and associated geographic factors*, 2017 National Society of American Foresters Convention, Nov. 15–19, Albuquerque, NM. (Poster)
- Rudnicki, M., **Dickinson, Y.**, Wang, X., Ross, R. (2017) *Non-destructive wood quality assessment methods and potential application to forest inventory assessments, models and forest management*. 20<sup>th</sup> International Nondestructive Testing and Evaluation of Wood Symposium. Sept. 12–15, Madison, WI.
- Webster, C.R., Kern, C., and **Dickinson, Y.** (2017) *Silviculture through the lens of forest complexity*. 11<sup>th</sup> North American Forest Ecology Workshop, June 19–22, Edmonton, Alberta, Canada (Invited)
- Dickinson, Y.L.** (2016) *Maintaining and promoting compositional and structural diversity for forest resilience*. Michigan Society of American Foresters Statewide Meeting, Oct 6–7, Marquette, MI.
- Hupperts, S.\*, **Dickinson, Y.**, Webster, C.R. and Froese, R. (2016) *Investigating silvicultural systems for promoting tree diversity in managed Lake States northern hardwoods*. 2016 National Society of American Foresters Convention, Nov. 2–6, Madison, WI. (Poster)
- Petras, M.\*, **Dickinson, Y.** and Webster, C.R. (2016) *Gap-partitioning of understory plant communities in Northern Michigan hardwood forests managed using group selection*. 2016 National Society of American Foresters Convention, Nov. 2–6, Madison, WI. (Poster)
- Dickinson, Y.L.** (2015) “*Groupy-clumpy*” *restoration of a frequent-fire conifer ecosystem on Colorado’s Front Range*. Joseph W. Jones Ecological Research Center, Nov. 9<sup>th</sup>, Newton, GA. (Invited)
- Dickinson, Y.L.** (2015) *Using remote sensing for forest management and restoration: a case study*. Michigan Society of American Foresters Statewide Meeting, Apr. 9, Marquette, MI.
- Dickinson, Y.L.** (2015) *Groupy-clumpy restoration of a frequent-fire conifer ecosystem on Colorado’s Front Range*. Department of Forestry, Mar. 31, Michigan State University, Lansing, MI. (Invited)
- Dickinson, Y.L.** (2015) *Groupy-clumpy restoration of a frequent-fire conifer ecosystem on Colorado’s Front Range*. Department of Natural Resource Ecology and Management Seminar, Feb. 13, Iowa State University, Ames, IA. (Invited)
- Dickinson, Y.**, Tinkham, W.T., Hoffman, C.M., Battaglia, M.B., Ex, S., and Underhill, J. (2015) *Visualization guide to heterogeneous forest structures following treatment in the Southern Rocky Mountains*. 2015 National Society of American Foresters Convention, Nov. 3–7, Baton Rouge, LA.
- Cadry, J.\*, **Dickinson, Y.L.**, Mackes, K., Smith, F.W. (2014) *Achieving “Groupy-Clumpy”: The effectiveness of marking methods on spatially heterogeneous thinning*. 2014 National SAF Convention and CIF/IFC AGM & Conference, Oct. 8–11, Salt Lake City, UT.
- Dickinson, Y.L.** and the Landscape Restoration Team of the Front Range Roundtable. (2014) *The first four years of a collaborative forest landscape restoration project on Colorado’s Front Range: successes and lessons learned*. XXIV IUFRO World Congress 2014, Sustaining Forests, Sustaining People: The Role of Research, Oct 5–11, Salt Lake City, UT.
- Dickinson, Y.L.**, and the Landscape Restoration Team of the Front Range Roundtable. (2014) *Achieving “groupy-clumpy” in restoration projects: Innovative silviculture and monitoring in the Front Range Collaborative Forest Landscape Restoration Project*. XXIV IUFRO World Congress 2014, Sustaining Forests, Sustaining People: The Role of Research, Oct. 5–11, Salt Lake City, UT.
- Dickinson, Y.L.**, Underhill, J, Battaglia, M and Thinnis, J. (2014) *Difficulties with the current silviculture nomenclature: A dry-forest management perspective*. 2014 National SAF Convention and CIF/IFC AGM & Conference, Oct. 8–11, Salt Lake City, UT.

- Dickinson, Y.L.** and Hoffman, C. (2014) *Evaluating restoration of ponderosa pine in Colorado*. Invited speaker at the Colorado State Forest Service annual meeting, May 7, Ft Collins, CO.
- Gannon, B., Brown, P.M., Battaglia, M.A., Fornwalt, P.J., Huckaby, L.S., **Dickinson, Y.**, Cheng, A.S., Julian, C. (2014) *Structure, process, and resilience in Colorado Front Range montane forests*. International Association of Wildland Fire and Association for Fire Ecology, Large Wildland Fires: Social, Political and Ecological Effects, May 19–23, Missoula, MT.
- Hoffman, C.M., Battaglia, M., Ziegler, J., Mell, W., Vakili, E.\*, and **Dickinson, Y.** (2014) *Evaluating fuel variability and fire behavior following restoration in ponderosa pine ecosystems*. 3<sup>rd</sup> annual NIST/USFS WUI Seminar, Jan. 6, Gaithersburg, MD. (Invited)
- Hoffman, C.M., Battaglia, M., Ziegler, J.\*, Vakili, E.\*, **Dickinson, Y.** and Mell, W. (2014) *Evaluation of forest management objectives: creating spatially heterogeneous structures and reducing fire behavior*. Northern Front Range Forest Health Working Group, July 8, Boulder, CO. (Invited)
- Vakili, E.\*, Hoffman, C., Keane, R., **Dickinson, Y.** and Rocca, M. (2014) *Fuel treatment effects on surface fuels in dry ponderosa pine forests of the Southern Rockies*. 2014 National SAF Convention and CIF/IFC AGM & Conference, Oct. 8–11, Salt Lake City, UT.
- Vakili, E\*., Hoffman, C.M., Keane, R.E., **Dickinson, Y.L.**, and Rocca, M.E. (2014) *Evaluating fuel treatment effects on surface fuels in dry ponderosa pine forests*. International Association of Wildland Fire and Association for Fire Ecology, Large Wildland Fires: Social, Political and Ecological Effects, May 19–23, Missoula, MT. (Poster)
- Dickinson, Y.L.** (2013) *Seeing the forest for the trees*. Boulder County GIS day, Nov. 20, Longmont, CO. (Invited)
- Dickinson, Y.L.**, Brown, P.M., Fornwalt, P., Huckaby, L.S., Battaglia, M.A. and Cheng, A.S. (2013) *Front Range Reconstruction Network: Reconstructing forest structure and fire history in Front Range montane forests to inform forest restoration activities*. Piecing together the fragments: Sustaining forest ecosystems in the 21st Century. North American Forest Ecology Workshop, June 16–20, Bloomington, IN. (Poster)
- Pelz, K.\*, and **Dickinson, Y.** (2013) *Working with the Front Range Collaborative Forest Landscape Restoration Project to develop tools to monitor forest spatial patterns*. Center for Collaborative Conservation Seminar and Discussion Series, Colorado State University, May 7, Ft Collins, CO.
- Underhill, J., Rudney, A., **Dickinson, Y.** and Thinnes, J. (2013) *Silviculture of the Front Range Landscape Restoration Initiative*. Silviculture Matters. Society of American Foresters National Convention, Oct. 23–27, Charleston, SC.
- Dickinson, Y.L.** (2012) *Mapping forest structure across landscapes using LiDAR*. Colorado State University's Forest and Rangeland Stewardship department seminar. Mar. 20, Ft Collins, CO.
- Dickinson, Y. L.**, Zenner, E. K. and Miller, D. (2012) *Mapping of Pennsylvania's forest structure using LiDAR and aerial imagery*. Resilient Forests: Society of American Foresters Convention, Oct. 24–28, Spokane, WA. (Poster)
- Dickinson, Y. L.** and Zenner, E. K. (2010) *Disturbance characteristics and community resilience in mixed hardwood oak forests*. Ecological Society of America 95th Annual Meeting, Aug. 1–6, Pittsburgh, PA.
- Dickinson, Y. L.** and Zenner, E. K. (2010) *The effect of silvicultural cutting on composition and structure of mixed hardwood oak forests*. Society of American Foresters National Convention, Oct. 27–31, Albuquerque, NM.
- Dickinson, Y.** and Norton, D. A. (2008) *Structural fragmentation of short tussock grasslands by Hieracium pilosella*. Forestry & Agriculture – Collaborating for Sustainability, New Zealand Institute of Forestry Conference, May 15–18, Palmerston North, New Zealand (Poster)
- Dickinson, Y.** and Norton, D. A. (2007) *Spatial patterning of Hieracium invaded short tussock grassland communities*. Miss E L Hellaby Indigenous Grasslands Research Trust Twelfth Triennial Seminar, Dec. 2–4, Otago University, Dunedin, New Zealand (Invited)
- Dickinson, Y.** and Norton, D. A. (2007) *Roots of short tussock grasslands: functional classification*, Feathers to Fur: the ecological transformation of Aotearoa, New Zealand Ecological Society Conference, Nov. 18–22, University of Canterbury, Christchurch, New Zealand
- Miller, R.M., **Dickinson, Y.** and Reid, A. (2005) *Maori connections to forestry*. Forestry for indigenous peoples:



learning from experiences with forest industries, Technical Session 130, XXII IUFRO World Congress 2005. Australian National University, Canberra, ACT.

## Teaching and Advising

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2020 – present **Associate Professor of Silviculture**, College of Forest Resources and Environmental Sciences, Michigan Technological University, MI.

Instructor of record for FW3010 Practice of Silviculture, FW3012 Survey of Silviculture, and FW5130 Forest Vegetation Dynamics. Also advised teams of students for the capstone courses (FW4811 Integrated Resource Data Collection, and FW4810 Integrated Resource Assessment), and taught various independent study and special topic courses.

Principal advisor for 4 Ph.D. students, 4 M.S. students, and 1 undergraduate senior thesis. Member of 4 M.S. committees, 12 M.F. committees, 2 M.G.I.S. committees, and 3 Ph.D. committees. Mentored 7 first-year undergraduate and M.F. students through the Earn and Learn Program (research experience for undergraduate and non-thesis graduate students), 11 students who worked as technicians in my research group, and 2 undergraduates who undertook independent research projects without credit.

2014 – 2020 **Assistant Professor of Silviculture**, College of Forest Resources and Environmental Sciences, Michigan Technological University, MI.

2012 – 2014 **Temporary Assistant Professor**, Colorado Forest Restoration Institute, Forest and Rangeland Stewardship, Colorado State University, CO.

Instructor of record for F326 Silviculture, NR325 Forest Vegetation Management, and F421 Forest Stand Management. Principal advisor for 1 M.S. Student (Jeffery Cadry). Member of 2 Ph.D. advisory committees and 1 M.S. committee.

2008 – 2011 **Graduate Teaching Assistant**, School of Forest Resources, The Pennsylvania State University, PA.

Teaching assistant for FOR200W Professional Careers in Forest Resources, FOR350 Biometry, FOR421 Silviculture, and FOR410 Ecosystem Management.

2007 – 2008 **Graduate Instructor and Laboratory Demonstrator**, School of Forestry, University of Canterbury, New Zealand

Instructor for ENGR101 Foundations of Engineering, and laboratory demonstrator for FORE218 Forest Biology, and BIOL113 Diversity of Life.

## Service to Profession

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2018 – present Member of Northern Hardwoods Conference 2020 Technical Committee

2014 – present Reviewed manuscripts for the following journals: Basic and Applied Ecology, Photogrammetric Engineering & Remote Sensing, Forest Science, Journal of Forestry, Journal of Mountain Science, Remote Sensing, Forest Ecology and Management, Forest Ecosystems, Plant Ecology, New Forests, Forestry, Forests, Restoration Ecology, Canadian Journal of Forest Research, *PLOS One*

2020 *Ad hoc* reviewer for US Department of Agriculture (USDA), National Institute of Food and Agriculture (NIFA), Agriculture and Food Research Initiative (AFRI) grant program

2020 Reviewed strategic plan for Society of American Foresters Michigan Chapter.

2019 Moderated session of Society of American Foresters' Annual National Meeting, 1 Nov., Louisville, KY.

2018 Hosted International Forestry Students Association - Canadian American Regional Meeting field tour of NH-SEED, 6 Feb., Ford Forest, MI.

2018 External Examiner for United States Forest Service Silviculturist Certification

2017 Co-organizer of special session for North American Forest Ecology Workshop; Seeing the forest

through the understory: promoting and maintaining diversity in contemporary hardwood forests

- 2015 – 2016 Co-organizer of 2016 Society of American Foresters Silviculture Instructors' Tour workshop  
2015 External Examiner for United States Forest Service Silviculturist Certification

### **University Service**

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- 2019 – present Member of College of Forest Resources and Environmental Science Diversity and Inclusion Committee  
2018 – present Member of Ezhi-wiidanokiindiyang omaa akiing ebiitamang: Environmental Stewardship and Indigeneity Learning Group, and coordinator of spring 2019 reading collaborative.  
2017 – present Faculty Advisor for Women in Natural Resources at Michigan Tech student organization  
2014 – present Member of Ford Center and Forest Committee  
2014 – present Member of Women in Academia (formerly Women in Science and Engineering, WISE) faculty group  
2020 Reviewer for Ecosystem Science Center Student Research Grants  
2019 Member of Martin Jurgensen Teaching Development Award Endowment Fund and the Hammer Endowed Equipment Fund Committee  
2019 Presentation for visit by two US Representatives to Michigan Tech, March 1  
2019 Judge for Ecosystem Science Center Student Research Forum Poster Competition  
2019 Member of Natural Resource Management Lecturer search committee  
2019 Member of School of Forest Resources and Environmental Science Earn and Learn program committee  
2018 Reviewer for Research Excellence Fund - Research Seed Grants (REF-RS)  
2016 – 2018 School of Forest Resources and Environmental Science Diversity Liaison (alternate), including: co-facilitating diversity lunch, and co-authoring follow-up report, and co-presenting school seminar  
2017 Received letter from Director of Center for Diversity and Inclusion recognising my nomination as a positive female role model on campus during an anonymous survey of female students, staff and faculty, Jan. 17  
2017 Participated in US Senator visit to Michigan Tech, April 1  
2017 Judge for Graduate Student Association Graduate Research Colloquium Poster Competition  
2015 Judge for Ecosystem Science Center Student Research Forum Poster Competition  
2015 Member of Vegetation of North America Instructor search committee  
2015 Member of Forest Biomaterials faculty search committee  
2015 School of Forest Resources and Environmental Science School council representative for untenured faculty  
2015 Reviewer for Research Excellence Fund - Research Seed Grants (REF-RS)  
2014 Member of Natural Resource Management faculty search committee  
2014 Chair of Martin Jurgensen Teaching Development Award Endowment Fund Committee

### **Outreach**

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- 2019 Hosted Michigan Tech's Natural Resource & Engineering Exploration program, July 21-27, Tech Trails, MI.  
2018 Co-host of two Forest Landowner Workshops, Oct. 13 & 20, Ford Forest, MI.  
2017 Presentation for congressional visit hosted by US Forest Service, Aug. 3, Munising, MI.

- 2017            Hosted Milwaukee’s Indian Community School and Waadookodading Ojibwe Language Immersion School 6-8<sup>th</sup> Graders field tour of NH-SEED, May 31, Ford Forest, MI.
- 2017            Hosted Open World Program field tour of NH-SEED, May 23, Ford Forest, MI.

### **Additional Skills**

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Approved to undertake human subjects research by Michigan Technological University’s Institutional Review Board, GPS and basic surveying, operation of Faro Focus 3D terrestrial LiDAR scanner and analysis of data, USDA Forest Service Fusion, Multispec, ENVI, ArcGIS, Python, R (Statistics), Minitab, USDA Forest Service Forest Vegetation Simulator (FVS), LaTeX, Canvas by Instructure, and the Microsoft Office Suite

### **Affiliations**

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Member of Ecological Society of America (ESA), Society of American Foresters (SAF), American Association for the Advancement of Science (AAAS), Forest Stewards Guild, and Xi Sigma Pi