

CHRISTEL C. KERN

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A. PROFESSIONAL PREPARATION

University of WI-Stevens Point	BSc Biology	1997
University of WI-Stevens Point	MSc Natural Resources	2000
University of MN-Twin Cities	PhD Natural Resource Science and Management	2011

B. APPOINTMENTS

Research Forester, USDA Forest Service Northern Research Station	09/2011 – Present
Scientist Trainee, USDA Forest Service Northern Research Station	09/2006 – 08/2011
Forester/Ecologist, USDA Forest Service Northern Research Station	05/2002 – 08/2006
Forester, USDA Forest Service Pacific Northwest Research Station	11/2000 – 04/2002
Biological Technician, USDA Forest Service Northern Research Station	Seasonal 1995-2000

C. SELECTED RECENT PUBLICATIONS (*‡postdoc, ††graduate or †undergraduate student advisees*)

- ††Knapp, Samuel P.; **Kern, Christel C.**; Webster, Christopher R. 2021. Harvested opening size affects cohort development and failures in a second-growth northern hardwood forest. *Forest Ecology and Management*
- ‡Curzon, Miranda T.; **Kern, Christel C.**; Baker, Susan C.; Palik, Brian J.; D'Amato, Anthony W. 2020. Retention forestry influences understory diversity and functional identity. *Ecological Applications*
- Gustafson, Eric J.; **Kern, Christel C.**; Miranda, Brian R.; Sturtevant, Brian R.; Bronson, Dustin R.; Kabrick, John M. 2020. Climate adaptive silviculture strategies: How do they impact growth, yield, diversity and value in forested landscapes?. *Forest Ecology and Management*
- ‡Quigley, Kathleen M.; Kolka, Randall; Sturtevant, Brian R.; Dickinson, Matthew B.; **Kern, Christel C.**; Donner, Deahn M.; Miesel, Jessica R. 2020. Prescribed burn frequency, vegetation cover, and management legacies influence soil fertility: Implications for restoration of imperiled pine barrens habitat. *Forest Ecology and Management*
- ††Bassil, Sarita ; Nyland, Ralph D.; **Kern, Christel C.**; Kenefic, Laura S. 2019. Dynamics of the diameter distribution after selection cutting in uneven- and even-aged northern hardwood stands: a long-term evaluation. *Canadian Journal of Forest Research*
- Kern, Christel C.**; Schwarzmann, John; Kabrick, John ; Gerndt, Kathryn ; Boyden, Suzanne ; Stanovick, John S. 2019. Mounds facilitate regeneration of light-seeded and browse-sensitive tree species after moderate-severity wind disturbance. *Forest Ecology and Management*
- ††Knapp, Samuel P.; Webster, Christopher R.; Kern, Christel C. 2019. Can group selection with legacy retention change compositional trajectories in conventionally managed hardwoods?. *Forest Ecology and Management*
- Kern, Christel C.**; Montgomery, Rebecca A.; Reich, Peter B.; Strong, Terry F. 2014. Harvest-created canopy gaps increase species and functional trait diversity of the forest ground-layer community. *Forest Science*. 60(2): 335-344.
- Kern, Christel C.**; Montgomery, Rebecca A.; Reich, Peter B.; Strong, Terry F. 2013. Canopy gap size influences niche partitioning of the ground-layer plant community in a northern temperate forest. *Journal of plant Ecology*. 6(1): 101-112.
- Kern, Christel C.**; Reich, Peter B.; Montgomery, Rebecca A.; Strong, Terry F. 2012. Do deer and shrubs override canopy gap size effects on growth and survival of yellow birch, northern red oak, eastern white pine, and eastern hemlock seedlings?. *Forest Ecology and Management*. 267: 134-143.

D. SYNERGISTIC ACTIVITIES

- Lead Scientist: Argonne, Coulee, Dukes, Lower Peninsula, and Udell Experimental Forests, USDA Forest Service
- Co-Leader: Research Natural Area program, Northern Research Station, USDA Forest Service
- Advisor: Reforestation, afforestation, and assisted natural regeneration project, Fiji, U.S. Department of State
- Co-Chair and Co-Founder: First Biennial Northern Hardwood Conference, virtual 2021
- Adjunct Faculty: University of Minnesota, Michigan Technological University, and University of WI-Madison
- Member: Forest Ecology representative, Silviculture Guidance Team, State of Wisconsin
- Member: Advisory Board, College of Natural Resources, University of WI-Stevens Point
- Member: Society of American Foresters, ProSilva, Forest Guild