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EDUCATION

- 2014 Ph.D., Forest Hydrology and Watershed Management, University of Minnesota, St. Paul, MN
Graduate Certificate in Preparing Future Faculty
- 2010 M.S., Forest Resources, Virginia Tech, Blacksburg, VA
Graduate Certificate in Watershed Management
- 2007 B.S., Forestry, Virginia Tech, Blacksburg, VA
Magna cum Laude Honors

FACULTY APPOINTMENTS AND EXPERIENCE

- 2022 – present **Associate Professor**, School of Forestry, Northern Arizona University, Flagstaff, AZ
- 2022 **Associate Professor**, Earth and Environmental Sciences, Univ. of Minnesota Duluth, Duluth, MN
- 2017 – 2022 **Associate Faculty**, Institute on the Environment, Univ. Minnesota Twin Cities, St. Paul, MN
- 2017 – present **Graduate Faculty**, Integrated Biosciences Program, Univ. Minnesota Duluth, Duluth, MN
- 2017 – present **Graduate Faculty**, Water Resources Science Program, Univ. Minnesota Twin Cities, St. Paul, MN
- 2017 – 2022 **Assistant Professor**, Earth and Environmental Sciences, Univ. of Minnesota Duluth, Duluth, MN
- 2015 – 2016 **Postdoctoral Research Hydrologist**, USDA Forest Service, Pacific SW Research Station, Davis, CA
- 2010 – 2014 **Graduate Research/Teaching Assistant**, Forest Resources, Univ. Minnesota, St. Paul, MN
- 2007 – 2010 **Graduate Research Assistant**, Forestry, Virginia Tech, Blacksburg, VA

PUBLICATIONS

*Denotes student author

- Denver, C.*, Springer, A., **Dymond, S. F.**, & O'Donnell, F. Quantifying groundwater recharge in a fire-adapted, semi-arid forest watershed water balance. *Geology* [In Review].
- Jones, M. W.*, **Dymond, S. F.**, Sebestyen, S. D., & Feng, X. Snow accumulation increases with forest structural diversity in low-relief catchments. *Hydrological Processes* [In Review].
- McKeever, E.*, **Dymond, S. F.**, Keppeler, E. T., & Wagenbrenner, J. W. Geomorphic factors impact groundwater levels in a coast redwood forest. *Hydrological Processes* [In Review].
- Silver, E. S., **Dymond, S. F.**, & Gunn, G. G. A review of research in the Lhù'ààn Mân' (Kluane Lake) Region to understand community engagement, involvement, and knowledge co-production. *Arctic* [In Review].
- Tatum, J.*, Sankey, T. T., Belmonte, A., **Dymond, S. F.**, & Wooley, T. Five years of hourly soil water potential monitoring demonstrates forest thinning benefits in the North American Southwest. *Ecohydrology* [In Review].
- Petreshen, J.*, **Dymond, S. F.**, Allen, S. T., Keppeler, E. T., & Wagenbrenner, J. W. (2025). Fog presence and ecosystem responses in a managed coast redwood forest. *Agriculture and Forest Meteorology* [In Press].
- Jones, M. W.*, **Dymond, S. F.**, Hoffman, K., Sebestyen, S. D., & Feng, X. (2024). Trends in snow depth and canopy cover in Minnesota peatland watersheds: 2022-2023 Winter. Proceedings of the 2023 Western Snow Conference.
- Haaf, L.* & **Dymond, S. F.** (2024). Growth conditions of tree species relative to climate change and sea level rise in low-lying Mid Atlantic coastal forests. *Frontiers in Forests and Global Change*. 7:1362650.
<https://doi.org/10.3389/ffgc.2024.1362650>
- Keppeler, E. T., Wagenbrenner, J. W., **Dymond, S. F.**, & Dralle, D. (2024). Streamflow response to drought in a managed Coast redwood forest. *Journal of the American Water Resources Association*, 60(5): 928-952.
<https://doi.org/10.1111/1752-1688.13211>
- McKeever, E.*, **Dymond, S. F.**, Keppeler, E. T., & Wagenbrenner, J. W. (2024) Basal area, and hillslope position impacts to hydraulic redistribution in a coast redwood forest. *Science of the Total Environment*, 957(20): 177506.
<https://doi.org/10.1016/j.scitotenv.2024.177506>
- Richardson, P. W., Cafferata, P. H., **Dymond, S. F.**, Keppeler, E. T., Wagenbrenner, J. W., & Whiting, J. A. (2023). Where do paired watersheds fit in a big data world? Anecdotes from the Caspar Creek Experimental Watersheds. *Frontiers in Forests and Global Change*, 6: 1275392. <https://doi.org/10.3389/ffgc.2023.1275392>
- Rustad, L. E., Adams, M. B., **Dymond, S. F.**, Gregory, M., & Miniati, C. F. (2023). Perspectives on the contributions of women to the hydrologic sciences and their changing demographics at USDA Forest Service Experimental Forests and Ranges. *Journal of Hydrology*, 623. <https://doi.org/10.1016/j.jhydrol.2023.129469>

- Jones, M. W.*, Sebestyen, S. D., **Dymond, S.**, Ng, G. H. C., Feng, X. (2023). Soil frost decouples streamflow generation processes in headwater catchments. *Journal of Hydrology*, 617. <https://doi.org/10.1016/j.jhydrol.2022.128801>.
- Rose, L., Karwan, D., Dymond, S. 2022. Patterns of dissolved organic carbon (DOC) composition during snowmelt- and rainfall-driven events. *Journal of Hydrology*, 617. <https://doi.org/10.1016/j.jhydrol.2022.128988>.
- Kassuelke, S. R.*, **Dymond, S. F.**, Feng, X., Savage, J. A., & Wagenbrenner, J. W. (2022). Understory transpiration rates following harvest in a coast redwood forest. *Ecohydrology*, e2404. <https://doi.org/10.1002/eco.2404>.
- Dymond, S. F.** (2022). The World's Tallest Trees Can "Drink" Fog! *Frontiers for Young Minds*, 10:676645.
- Dymond, S. F.**, Wagenbrenner, J. W., Keppeler, E. T., & Bladon, K. D. (2021). Dynamic hillslope soil moisture in a Mediterranean montane watershed. *Water Resources Research*, 57, e2020WR029170.
- Van Stan, J. T., Klamerus-Iwan, A., & **Dymond, S. F.** (2021). Editorial: Bark-Water Interactions. *Frontiers in Forests and Global Change*, 4: 802586. <https://doi.org/10.3389/ffgc.2021.802586>.
- Haaf, L.*, **Dymond, S. F.**, & Kreeger, D. A. (2021). Principal factors influencing tree growth in low-lying Mid Atlantic coastal forests. *Forests*, 12, 1351. <https://doi.org/10.3390/f12101351>.
- Dymond, S. F.**, Richardson, P. W., Webb, L. A., Keppeler, E. T., Arismendi, A., Bladon, K. D., Cafferata, P. H., Dahlke, H. E., Longstreth, D. L., Brand, P., Ode, P. R., Surfleet, C. G., & Wagenbrenner, J. W. (2021). A field-based experiment on the influence of stand density reduction on watershed processes at the Caspar Creek Experimental Watersheds in northern California. *Frontiers in Forests and Global Change*, <https://doi.org/10.3389/ffgc.2021.691732>.
- Richardson, P. W., Seehafer, J. E., Keppeler, E. T., Sutherland, D. G., Wagenbrenner, J. W., Bladon, K. D., & **Dymond, S. F.** (2021). Fifty-eight years and counting of watershed science at the Caspar Creek Experimental Watersheds in northern California. *Hydrological Processes*, 35(6), e14207. <https://doi.org/10.1002/hyp.14207>.
- Kazanski, C., Cowles, J., **Dymond, S.**, Clark, A., David, A., Jungers, J., Kendig, A., Riggs, C., Trost, J., & Wei, X. (2021). Water availability modifies effects of biodiversity and nitrogen addition on plant productivity in long-term experiments in a mesic grassland. *Ecological Applications*, <https://doi.org/10.1002/eap.2363>.
- Van Stan, J. T., **Dymond, S. F.**, & Klamerus-Iwan, A. (2021). A Perspective of Bark-Water Interactions across Ecosystem States and Fluxes. *Frontiers in Forests and Global Change*, 4: 660662. <https://doi.org/10.3389/ffgc.2021.660662>.
- Tague, C., Papuga, S., Gerlein-Safdi, C., **Dymond, S.**, Morrison, R., Boyer, E., Riveros Iregui, D., Agee, E., Arora, B., Dialynas, Y., Hansen, A., Krause, S., Kuppel, S., Loheide, S., Schymanski, S., & Zipper, S. (2020). Adding our leaves: a community-wide perspective on research directions in ecohydrology. *Hydrological Processes*, 34(7): 1665-1673. <https://doi.org/10.1002/hyp.13693>.
- Dymond S. F.**, D'Amato, A. W., Bolstad, P. V., Kolka, R. K., Sebestyen, S. D., Gill, K. G., & Curzon, M. T. (2019). Climatic controls on peatland black spruce growth in relation to water table variation and precipitation. *Ecohydrology*, 12(7), <https://doi.org/10.1002/eco.2137>.
- McDonnell, J., Evaristo, J., Bladon, K., Buttle, J., Creed, I., **Dymond, S.**, Grant, G., Iroumé, A., Jones, J., Maness, T., McGuire, K., Scott, D., Segura, C., Sidle, R., & Tague, C. (2018). Forest water sustainability. *Nature Sustainability*, 1: 378-379
- Dymond, S. F.**, Bradford, J. B., Bolstad, P. V., Kolka, R. K., Sebestyen, S. D., & DeSutter, T. M. (2017). Topographic, edaphic, and vegetative controls on plant-available water. *Ecohydrology*, <https://doi.org/10.1002/eco.1897>.
- Saksa, P., Safeeq, M., **Dymond, S.** (2017). Recent patterns in climate, vegetation, and forest water use in California montane watersheds. *Forests*, 8, <https://doi.org/10.3390/f8080278>.
- Li, X., Xiao, Q., Niu, J., McPherson, G., **Dymond, S.**, van Doorn, N., Yu, X., Xie, B., & Li, J. (2017). Rainfall interception by tree crown and leaf litter in Northern China: a joint measurement. *Hydrological Processes*, 31: 3533-3542. <https://doi.org/10.1002/hyp.11275>.
- Li, X., Xiao, Q., Niu, J., **Dymond, S.**, van Doorn, N., Yu, X., Xie, B., Lv, X., Zhang, K., & Li, J. (2016). Process-based rainfall interception by small trees in Northern China: the effect of rainfall traits and crown structure characteristics. *Agricultural and Forest Meteorology*, 218: 65-73.
- Dymond, S. F.**, D'Amato, A. W., Kolka, R. K., Bolstad, P. V., Sebestyen, S. D., & Bradford, J. B. (2015). Growth climate relationships across topographic gradients in the Northern Great Lakes. *Ecohydrology*, 9: 918-929. <https://doi.org/10.1002/eco.1700>.
- Li, X., Niu, J., Zhang, L., Xiao, Q., McPherson, G., van Doorn, N., Yu, X., Xie, B., **Dymond, S.**, Li, J., Meng, C., & Luo, Z. (2015). A study on crown interception with four dominant tree species: a direct measurement. *Hydrology Research*, 47: 857-868. <https://doi.org/10.2166/nh.2015.066>.

- Dymond, S. F.**, Aust, W. M., Prisley, S. P., Eisenbies, M. H., & Vose, J. M. (2014). Application of a distributed process based hydrologic model to estimate the effects of forest road density on stormflows in the Southern Appalachians. *Forest Science*, 60(6): 1213-1223.
- Dymond, S. F.**, Kolka, R. K., Bolstad, P. V., & Sebestyen, S. D. (2014). Long-term soil moisture patterns in a northern Minnesota forest. *Soil Science Society of America Journal*, 78: 208-216.
- Dymond, S.**, Aust, W., Prisley, S., Eisenbies, M., & Vose, J. (2013). Influence of forest road standards and networks on water yield as predicted by the Distributed Hydrology-Soil Vegetation Model. In Guldin J. (Ed). Proceedings of the 15th Biennial Southern Silvicultural Research Conference. USDA For. Serv. Gen. Tech. Rep. 175. Asheville, N.C. 399-404.
- Vose, J. M., Ford, C. R., Laseter, S., **Dymond, S.**, Sun, G., Adams, M. B., Sebestyen, S., Campbell, J., Luce, C., Amayta, D., Elder, K., & Hartsill-Scalley, T. (2011). Can forest watershed management mitigate climate change impacts on water resources? In Web, A., Bonell, M., Bren, L., Lane, P. N. J., McGuire, D., Neary, D. G., Nettles, J., Scott, D. F., Stednick, J., & Wang, Y. (Eds). Revisiting Experimental Catchment Studies in Forest Hydrology. IAHS Redbook Publ. 353. 240 pp.
- Dymond S. F.**, Aust, W. M., Prisley, S. P., Eisenbies, M. H., & Vose, J. M. (2011). Forest roads and flooding. In Mitchell, D., Gallagher, T. (Eds). Proceedings of the 33rd Annual Meeting of the Council of Forest Engineering: Fueling the Future, June 6-9, 2010, Auburn, AL. p. 1-11.

DATA PRODUCTS

*Denotes student author

- Gran, K., Behar, H*, Burgeson, E*, **Dymond, S.**, & Dumke, J. (2021). Data for Impacts of beaver dams on low-flow hydrology and hydraulics, Knife River, MN, *Data Repository UMN*, <https://doi.org/10.13020/W16T-NA37>.
- Dymond, S.**, Bladon, K., Keppeler, E., & Wagenbrenner, J. (2021). Caspar Creek Experimental Watersheds Soil Moisture Dataset, *HydroShare*, <https://doi.org/10.4211/hs.77664f7a07854e17b29557fe308b3dfa>.
- Dymond, S. F.**, Kyllander, R. L., Elling, A. E., Verry, E. S., Roman, D. T., Burdick, J. M., Lany, N. K., Kolka, R. K., & Sebestyen, S. D. (2021). Marcell Experimental Forest seasonal soil moisture 1966 – ongoing, *Forest Service Research Data Archive*, <https://doi.org/10.2737/RDS-2021-0019>.
- Richardson, P. W., Seehaver, J., Keppeler, E., Sutherland, D., Wagenbrenner, J., Bladon, K., **Dymond, S.**, & Cole, R. (2021). Caspar Creek Experimental Watersheds Phase 2 (1985-2017) data 2nd Ed., *Forest Service Research Data Archive*, <https://doi.org/20.2737/RDS-2020-0018-2>.
- Hammerschmidt, S. R.*, & **Dymond, S. F.** (2020). South Fork Caspar Creek Understory Evapotranspiration Data – 2019. *Data Repository UMN*, <https://doi.org/10.13020/11c7-vc76>.
- Dymond, S. F.** (2018). Marcell Experimental Forest Black Spruce Dendrochronology. *Data Repository UMN*, <https://doi.org/10.13020/mae6-4t39>.

EXTERNALLY FUNDED GRANTS (\$7.1M TOTAL; \$8K PENDING)

- 2025 – 2027 USFS Pacific Southwest Research Station. *Effects of Fuel Management and Restoration on Watersheds*. **PI: S. Dymond**. \$636K. [Pending]
- 2025 – 2026 Salt River Project. *Ecohydrological Monitoring of Upper Verde Thinning Impacts-Phase III*. PI: Temuulen Sankey; **Co-PI: S. Dymond**, J. Leonard, J. Biederman. \$175K. [Pending]
- 2025 – 2027 USDA Forest Service and Natural Resources Conservation Service. *Modeling Watershed-Scale Soil Water Dynamics at the Sierra Ancha Experimental Forest*. **PI: S. Dymond**; Co-PI: J. Leonard. \$290K.
- 2024 - 2025 Salt River Project. *Ecohydrological Monitoring of Upper Verde Thinning Impacts-Phase II*. PI: Temuulen Sankey; **Co-PI: S. Dymond**, J. Leonard, J. Biederman. \$400K.
- 2024 – 2026 USFS Rocky Mountain Research Station. *Linking Soil Moisture and Microclimate with Fuel Moisture*. **PI: S. Dymond**; Co-PI: Temuulen Sankey. Award: \$680K.
- 2023 – 2027 Cal-Fire Forest Health Program. *Forest Management to Promote Resilient Coast Redwood Forests*. **PI: S. Dymond**; Co-PI: J. Wagenbrenner. Award: \$500K.
- 2023 – 2025 USDA NIFA. *Ecological and Social Science Training and Education at the Intersection of Forests, Fires and Floods in a Changing Climate (ESSTE)*. PI: G. Koch; **Co-PI: S. Dymond**, et al. Award: \$400K.
- 2023 – 2024 Salt River Project. *Ecohydrological Monitoring of Upper Verde Thinning Impacts-Phase I*. PI: Temuulen Sankey; **Co-PI: S. Dymond**, J. Leonard, J. Biederman. Award: \$420K.
- 2023 – 2026 USFS Rocky Mountain Research Station. *Ecohydrological resilience and resistance of disturbed forested watersheds in the arid Southwest*. **PI: S. Dymond**. Award: \$50K.
- 2023 – 2025 Arizona Board of Regents. *Wildland Urban Interface (WUI) Fire-Fuel Mitigation*. PI: A. Sánchez-Meador. Co-PI: **S. Dymond**, et. al. Award: \$900K.

- 2023 – 2024 USFS Pacific Southwest Research Station. *Recovery of Redwood Forests Following Harvest*. **PI: S. Dymond**. Award: \$31K.
- 2023 – 2026 Department of Energy. *Southwestern Mountains Climate Resilience Center*. **PI: P. Fulé. Co-PI: S. Dymond**, M. Carbone, S. Ramos, K. Williams, D. Feldman. Award: \$950K.
- 2023 – 2026 USDA Mission Research. *Ecohydrological resilience and resistance of disturbed forested watersheds in the arid Southwest*. **PI: S. Dymond**. Award: \$300K.
- 2023 – 2026 US Geological Survey. *Field to stream: analyzing the network timescale of sediment transport and legacy phosphorus mobilization*. **PI: D. Karwan. Co-PI: S. Dymond** et al. Award: \$512K.
- 2022 – 2023 Department of Energy. *Multisystem feedbacks from a changing climate: Do altered hydrological dynamics control vadose zone carbon nutrient cycling and storage in shallow aquifer systems*. **PI: C. Sheik. Co-PI: S. Dymond**, K. Schreiner. Award: \$131K.
- 2022 – 2025 National Science Foundation – Hydrological Sciences. *Forests, frosts, & flow: Snow hydrology of spatially heterogeneous and hydrologically connected peatland catchments*. **PI: X. Feng. Co-PI: S. Dymond**. Award: \$505K.
- 2022 – 2023 National Science Foundation – Navigating the New Arctic. *Collaborative Research: NNA Planning: A holistic approach to monitoring abrupt environmental shifts in the Kluane Lake Region*. **PI: E. Huff. Co-PI: S. Dymond**, G. Gunn. Award: \$291K.
- 2021 MN Department of Natural Resources Lake Superior Coastal Program. *Coastal forest restoration and hydrology II*. **PI: J. Eттerson. Co-PI: S. Dymond**, E. Bergen. Award: \$10K.
- 2020 – 2022 USFS Pacific Southwest Research Station. *Connections between understory water use and streamflow following disturbance in a coast redwood forest*. **PI: S. Dymond**. Award: \$87K.
- 2020 MN Department of Natural Resources Lake Superior Coastal Program. *Coastal forest restoration and hydrology I*. **PI: J. Eттerson. Co-PI: S. Dymond**, E. Bergen. Award: \$12K.
- 2018 – 2020 National Science Foundation – Hydrological Sciences. *Collaborative Research: Water partitioning between trees, soils, and streams following forest disturbance*. **PI: S. Dymond**. **Co-PI: K. Bladon**. Award: \$75K.
- 2018 – 2019 USFS Pacific Southwest Research Station. *Effect of forest stand density reduction on plant-water use and water transport in the Caspar Creek Experimental Watersheds*. **PI: S. Dymond**. Award: \$69K.
- 2018 MN Department of Natural Resources Lake Superior Coastal Program. *Response of forest understory species experimental treatments that mimic climate change*. **PI: J. Eттerson. Co-PI: S. Dymond**. Award: \$9K.
- 2018 – 2020 MN Sea Grant. *Impact of beaver dams on low flow hydrology and hydraulics*. **PI: K. Gran. Co-PI: S. Dymond**, R. Teasley, J. Dumke. Award: \$139K.
- 2017 – 2019 USFS Pacific Southwest Research Station. *Effect of forest stand density reduction on plant-water use*. **PI: S. Dymond**. Award: \$67K.
- 2017 Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. Instrumentation Discovery Travel Grant. **PI: S. Dymond**. Award: \$1K.
- 2012 Consortium of Universities for the Advancement of Hydrologic Science, Inc. Pathfinder Fellowship $\delta^{13}C$ in tree-rings using a long-term soil moisture record. **PI: S. Dymond**. Award: \$2.5K.
- 2012 Inter-university Training for Continental-scale Ecology (ITCE) Research-in-Residence Fellowship $\delta^{13}C$ in aspen tree-rings. **PI: S. Dymond**. Award: \$6K.

INTERNALLY FUNDED GRANTS (\$404K TOTAL)

- 2022 UMN WINS. *Snow hydrology in Minnesota headwater catchments*. **PI: X. Feng. Co-PI: S. Dymond**. Award: \$102K.
- 2020 SCSE WISE Funding. *Developing diversity and equity curriculum for graduate students within the natural sciences*. **PI: J. Liang. Co-PI: S. Dymond**. Award: \$3K.
- 2018 – 2019 UMN Research Infrastructure Investment Program *Reinvestment and upgrade of the UMN Duluth Stable Isotope Analytical Facility*. **PI: K. Schreiner. Co-PI: S. Dymond**, B. Steinman. Award: \$185K.
- 2018 – 2019 UMN Grant-in-Aid. *Isotopic signatures of precipitation in Lake Superior*. **PI: S. Dymond**. Award: \$37K.
- 2018 UMD Travel Funding. *Early Career Faculty Travel Grant*. **PI: S. Dymond**. Award: \$2K.
- 2015 – 2016 USFS Pacific Southwest Research Station. *Forests and water in a changing climate: the role of forest management in keeping the balance*. **PI: S. Dymond**. **Co-PI: M. Safeeq**. Award: \$75K.

INVITED SEMINARS & TALKS

US-Japan Catchment Sciences Symposium, Tsukuba University, Tsukuba, Japan, March 3, 2025
Department of Geology Colloquium Series, University of Kansas, Lawrence, KS, April 13, 2023
Department of Natural Resource Ecology and Management, Iowa State University, Ames, IA, April 29, 2022
Hanover Lecture Series, Department of Forestry, Michigan State Univ., Virtual, November 10, 2020
Department of Civil, Construction, and Environmental Engineering, Marquette Univ., Virtual, November 4, 2020
Institute on the Environment Salon Talk, Univ. Minnesota, Duluth, MN, April 26, 2019
Department of Earth and Environmental Sciences Seminar, Univ. Minnesota Duluth, Duluth, MN, January 25, 2018
Water Resources Seminar, Univ. Minnesota Duluth, Duluth, MN, November 27, 2017
Frontiers Seminar, Large Lakes Observatory, Univ. Minnesota Duluth, Duluth, MN, March 2, 2017
Effectiveness Monitoring Committee, California Board of Forestry, Redding, CA, February 24, 2016
Forestry Seminar, Univ. California Berkeley, Berkeley, CA, February 8, 2016
Jackson Advisory Group Fall Meeting, Fort Bragg, CA, November 16, 2015
Annual Meeting of the California Aquatic Bioassessment Workgroup, Davis, CA, October 20, 2015
California Society of American Foresters Meeting, Auburn, CA, August 22, 2015

CONFERENCE PRESENTATIONS

Oral Presentations

*Denotes student author

- Farwell, H.*, **Dymond, S.**, Sanchez-Meador, A., Kurzweil, J., Biederman, J. 2024. Impacts of Forest Structure on Snow and Soil Water Dynamics in Southwest Colorado. *American Geophysical Union Annual Meeting*, Dec. 12, Washington, D.C.
- Dymond, S.F.**, Coe, D., Bladon, K.D., Keppeler, E.T., & Wagenbrenner, J.W. 2024. Combined effects of seasonality and forest harvesting on evapotranspiration. *International Union of Forest Research Organizations World Congress*, Jun. 27, Stockholm, Sweden.
- Samani, S.M.*, **Dymond, S.F.**, Sebestyen, S.D., & Feng, X. 2024. Hydrological connectivity in a peatland watershed: An integration of C-Q and end member mixing analysis. *WaterSciCon*, Jun. 25, St. Paul, MN.
- Dymond, S.F.** 2023. Linking the Dynamic Soil Survey and Ecohydrology at the Sierra Ancha Experimental Forest. National Soil Moisture Workshop. Beltsville, MD. Aug. 17, Virtual.
- Dymond, S.F.**, Coe, D., Bladon, K.D., Keppeler, E.T., Richardson, P.W., & Wagenbrenner, J.W. 2023. Interactive effects of harvesting and climate on forest evapotranspiration and streamflow dynamics. *Society of American Foresters Annual Conference*, Oct. 27, Sacramento, CA.
- Denver, C.*, Springer, A.E., O'Donnell, F., **Dymond, S.F.** 2023. Water balance analysis for the Upper Lake Mary Paired Watershed, Arizona. *Geological Society of America Annual Conference*, Oct. 16, Pittsburg, PA.
- Richardson, P.R., Keppeler, E., **Dymond, S.F.**, Wagenbrenner, J.W. 2022. Severe drought more than offset post-harvest hydrologic gains at Caspar Creek in Northern California. *American Geophysical Union Annual Meeting*, Dec. 16, Chicago, IL.
- Adams, D.J.*, **Dymond, S.F.**, Feng, X., Sebestyen, S.D. 2022. Meteorological variation and storage dynamics in small peatland catchments: Marcell Experimental Forest, Minnesota. *American Geophysical Union Annual Meeting*, Dec. 16, Chicago, IL.
- Adams, D.J.*, **Dymond, S.F.** 2022. Dynamic storage in peatland catchments. *Minnesota Water Resources Conference*, Oct. 25, St. Paul, MN.
- Dymond, S.F.**, Wagenbrenner, J.W., Keppeler, E., Bladon, K. 2022. Effects of forest disturbance on transpiration rates of coast redwood trees. *Frontiers in Hydrology*, Jun. 23, San Juan, PR.
- Bladon, K., **Dymond, S.F.**, Wagenbrenner, J., Keppeler, E., Miralha, L. 2022. Storage, mixing, and fluxes of soil water inferred from stable water isotope composition in the California Northern Coast Range. *Frontiers in Hydrology*, Jun. 20, San Juan, PR.
- Keppeler, E., Bladon, K., **Dymond, S.F.**, Wagenbrenner, J., Seehafer, J. 2022. Canopy interception rates in a managed coast redwood forest. *Frontiers in Hydrology*, Jun. 23, San Juan, PR.
- Dymond, S.F.**, Bladon, K., Keppeler, E., Wagenbrenner, J. 2021. Impacts of Forest Disturbance and Drought on Evapotranspiration in a Coastal Montane Forest. *American Geophysical Union Annual Meeting*, Dec. 14, New Orleans, LA.
- Jones, M.*, Sebestyen, S., **Dymond, S.F.**, Feng, X. 2021. The Role of Precipitation, Vegetation, and Evapotranspiration in Lowland, Snow-dominated Headwater Catchments. *American Geophysical Union Annual Meeting*, Dec. 13, New Orleans, LA.

- Winner, E.*, **Dymond, S.F.**, J.W. Wagenbrenner. 2021. Does Drought Matter? Factors for Resilience in Forested Watersheds of Northern California. *American Geophysical Union Annual Meeting*, Dec. 13, New Orleans, LA.
- Dymond, S.F.**, Bladon, K.D., E. T. Keppeler, & J. W. Wagenbrenner. (2021). Impacts of forest disturbance on evapotranspiration and source water appropriation in a coastal montane forest. *Society of American Foresters Annual Meeting*, November 5, Virtual.
- Bergen, E.* , **Dymond, S.F.**, Etterson, J.R. 2021. Climate change and assisted migration: Linking phylogenetic compatibility and watershed impacts of *Quercus* ecotypes, *Botany Annual Meeting*, Jul. 20, Virtual.
- Burgeson, E.* , Behar, H.* , **Dymond, S.F.**, Gran, K.B., Teasley, R.L., Dumke, J.D. 2020. Beaver dam impact to low flow hydrology in Northern Minnesota streams, *Upper Midwest Stream Restoration Symposium*, Feb. 24, Stillwater, MN.
- Haaf, L.* , Daneshgar, P., **Dymond, S.F.**, Watson, E. 2019. The effects of storm surge on pitch pine growth in a rapidly transgressing coastal forest, *Coastal and Estuarine Research Fed. Biennial Conference*, Nov. 4, Mobile, AL.
- Burgeson, E.* , **Dymond, S.F.**, Gran, K.B., Behar, H.* , Teasley, R.L. 2019. Impact of beaver on the hydrology of North Shore streams, *Minnesota Water Resources Conference*, Oct. 16, St. Paul, MN.
- Swenson, J.B., **Dymond, S.F.** 2019. Isotopic signature of snowfall in the Duluth area: Unraveling the relative importance of moisture sources and orography, *Great Lakes Observational Meteorology Workshop*, May 22, Duluth, MN.
- Dymond, S.F.**, Bladon, K.D., McDonnell, J.J., McNamara, J.P. 2017. Stream and tree water sources in a coast redwood forest, *American Geophysical Union Annual Meeting*, Dec. 14, New Orleans, LA.
- Dymond, S.F.**, Bolstad, P.V., Kolka, R.K., D'Amato, A.W. 2014. Moisture matters: Linking soil water availability to forest productivity, *Ecological Society of America Meeting*, Aug. 15, Sacramento, CA.
- Kolka, R.K., Sebestyen, S.D., Campbell, J., Rustad, L., **Dymond, S.**, Green, M. 2014. Climate change effects on hydrologic processes in northern forests, *Ecological Society of America Meeting*, Aug. 14, Sacramento, CA.
- Dymond, S.**, Roden, J., Bolstad, P., Kolka, R. 2013. $\delta^{13}\text{C}$ in aspen tree-rings using a long-term soil moisture record, *American Geophysical Union Annual Meeting*, Dec. 9, San Francisco, CA.
- Dymond, S.**, Kolka, R., Bolstad, P., Sebestyen, S. 2013. Five decades of soil moisture dynamics in a northern forest, *Ecological Society of America Meeting*, Aug. 7, Minneapolis, MN.
- Dymond, S.**, Bolstad, P., Kolka, R. 2013. A dynamic model of soil moisture at the Marcell Experimental Forest, *North American Forest Soils Conference*, Jun. 16 – 20, Whitefish, MT.
- Dymond, S.**, Kolka, R., Bolstad, P. (2012). 50 years of soil moisture at the Marcell Experimental Forest, *Soil Science Society of America Annual Meeting*, Oct. 23, Cincinnati, OH.
- Dymond, S.**, Aust, W. M., Prisle, S., Eisenbies, M., Vose, J., Dolloff, C. A. 2009. The effect of forest road density on stream discharge as calculated by the Distributed Hydrology-Soil Vegetation Model, *Soil Science Society of America Annual Meeting*, Nov. 1 – 5, Pittsburg, PA.
- Dymond, S.**, Aust, W. M., Prisle, S., Eisenbies, M., Vose, J. 2008. Influence of forest roads standards and networks on water yield as predicted by the Distributed Hydrology-Soil Vegetation Model, *Biennial Southern Silvicultural Research Conference*, Nov. 17 – 20, Hot Springs, AR.
- Poster Presentations
- Brogan, M.* , **Dymond S. F.**, Wagenbrenner J., Thompson, A., Coe, D. Restiano, J. 2024. Canopy cover reduction impacts on transpiration rates in *Pseudotsuga menziesii* and *Sequoia sempervirens*. *American Geophysical Union Annual Meeting*, Dec. 10, Washington, D.C.
- Dymond, S. F.**, Keppeler, E., Coe, D., Shannon, J., Wagenbrenner, J. 2024. Annual water yield responses to coast redwood forest harvest. *American Geophysical Union Annual Meeting*, Dec. 12, Washington, D.C.
- Ellis, E.* , **Dymond S. F.** 2024. Simulating the partition of evaporation, transpiration, and deep percolation by vegetation type in an arid montane watershed using HYDRUS-1D. *American Geophysical Union Annual Meeting*, Dec. 10, Washington, D.C.
- Jones, M.* , **Dymond, S.F.**, Sebestyen, S.D., Feng, X. 2024. Forest structure controls on snow accumulation in headwater catchments. *American Geophysical Union Annual Meeting*, Dec. 11, Washington, D.C.
- McKeever, E.* , **Dymond, S. F.**, Keppeler, E., Wagenbrenner, J. 2024. Groundwater and hydrologic connectivity dynamics pre- and post-harvest in a coast redwood ecosystem. *American Geophysical Union Annual Meeting*, Dec. 13, Washington, D.C.
- Samani, S.* , Jones, M., Liu, F., Sebestyen, S., **Dymond, S. F.**, Feng, X. 2024. Snowmelt regulates source water chemistry and contributions to streamflow in a northern forested peatland watershed. *American Geophysical Union Annual Meeting*, Dec. 13, Washington, D.C.
- Jones, M.* , **Dymond, S.F.**, Sebestyen, S.D., Feng, X. 2024. Forest architecture controls on snow in Mississippi Headwater Catchments. *WaterSciCon*, Jun. 24, St. Paul, MN.

- Miller, E.*, **Dymond, S.F.**, Wagenbrenner, J. 2024. Impacts of basal area and hillslope position on hydraulic redistribution in a coast redwood forest. *WaterSciCon*, Jun. 24, St. Paul, MN.
- Jones, M.*, Swenson, S.C., Sebestyen, S.D., **Dymond, S.F.**, Feng, X. 2023. Representing peatland heterogeneity in CLM5.0 using subgrid hillslope methods. *American Geophysical Union Annual Meeting*, Dec. 11, San Francisco, CA.
- Thompson, A., Keppeler, E., Wagenbrenner, J., Dymond, S., Coe, D., & Egan, F. 2023. Watershed processes in a managed coast redwood forest, Caspar Creek Experimental Watersheds in the 21st Century. *Society of American Foresters Annual Meeting*, Oct. 27, Sacramento, CA.
- Jones, M.W. *, **Dymond, S.F.**, Sebestyen, S.D., & Feng, X. 2023. Spatial Snow and Frost Patterns in Minnesota Peatland Watersheds. *Minnesota Water Resources Conference*, Oct., St. Paul, MN.
- Huff, E., **Dymond, S.F.**, Gunn, G.E., Miller, K., Penn, H. 2022. Holistic approach to monitoring abrupt environmental shifts in the Kluane Lake Region through knowledge co-production. *American Geophysical Union Annual Meeting*, Dec. 13, Chicago, IL.
- Dymond, S.F.**, Coe, D., Keppeler, E., Richardson, P., Wagenbrenner, J. 2022. A rich history of watershed science at the Caspar Creek Experimental Watersheds. *Frontiers in Hydrology*, Jun. 23, San Juan, PR.
- Van Stan, J., Klamerous-Irwan, A., **Dymond, S.F.** 2021. Bark-Water Interactions Across Ecosystem States and Fluxes. *American Geophysical Union Annual Meeting*, Dec. 17, New Orleans, LA.
- Dymond, S.F.** 2021. Flushing the Grades: A Pilot Study in Ungrading in a Watershed Hydrology Course. *American Geophysical Union Annual Meeting*, Dec. 17, New Orleans, LA.
- Petreshen, J.*, **Dymond, S. F.**, Wagenbrenner, J. 2021. Fog presence and ecosystem responses in a managed coast redwood forest, *Ecological Society of America Annual Meeting*, Aug. 5, Long Beach, CA.
- Nazzaro, A.*, Mitchell, S. G., Behar, H.*, Burgeson, E.*, Dumke, J., **Dymond, S.F.**, Gran, K.B., Teasley, R.L. 2021. Impact of beaver dams on stream temperature in the Knife River Watershed, MN, USA, *North-Central/South-Central Joint Section Virtual Meeting*, Geological Society of America, Mar. 15, Online.
- Bergen, E.*, Etersson, J.R., **Dymond, S.F.** 2020. Comparing climatological suitability and instantaneous evapotranspiration rates of *Quercus spp.* in a forested watershed, *Minnesota Water Resources Virtual Conference*, Oct. 20, St Paul, MN.
- Ihlang, M.*, **Dymond, S.F.**, Swenson, J.B. 2020. Groundwater recharge in formerly glaciated terrain: Exploring the relationship between frost dynamics, snowmelt, and infiltration in a northeastern MN watershed, *Minnesota Water Resources Virtual Conference*, Oct. 20, St Paul, MN.
- Burgeson, E.*, Behar, H.*, **Dymond, S.F.**, Gran, K.B., Teasley, R.L., Dumke, J.D. 2020. Beaver dam impact to low flow hydrology in northern Minnesota streams, *Geological Society of America North Central Section Virtual Meeting*, May 18, Duluth, MN.
- Hammerschmidt, S.R. *, **Dymond, S.F.** 2020. Measuring instantaneous evapotranspiration rates of a forest understory post-disturbance using a portable, rapid evapotranspiration chamber, *Geological Society of America North-Central Virtual Meeting*, May 18, Duluth, MN.
- Dymond, S.F.**, Bladon, K., Keppeler, E., Wagenbrenner, J. 2019. Differential soil moisture and groundwater responses to precipitation events across hillslope transects in a California coastal forest, *American Geophysical Union Annual Meeting*, Dec. 11, San Francisco, CA.
- Bladon, K., **Dymond, S.F.**, Wagenbrenner, J., Keppeler, E., McDonnell, J. 2019. Stable isotope composition of soil water, groundwater, streams, and trees of the California Northern Coast Range, *American Geophysical Union Annual Meeting*, Dec. 12., San Francisco, CA.
- Keppeler, E., Wagenbrenner, J., **Dymond, S.F.**, Cafferata, P., Webb, L., Richardson, P. 2019. Opening the black box: A 21st century investigation of watershed processes in a managed coast redwood forest, Caspar Creek Experimental Watersheds, *American Geophysical Union Fall Meeting*, Dec. 12, San Francisco, CA.
- Kolka, R., Sebestyen, S., **Dymond, S.F.**, Karwan, D.L. 2019. The Marcell Experimental Forest Research Catchments, *American Geophysical Union Fall Meeting*, Dec. 9, San Francisco, CA.
- Behar, H.*, Burgeson, E.*, **Dymond, S.F.**, Gran, K.B., Teasley, R.L. 2019. Stream thermal dynamics: the influence of beaver dams in a northern MN watershed, *Minnesota Water Resources Conference*, Oct. 15, Saint Paul, MN.
- Hammerschmidt, S.R.*, **Dymond, S.F.**, Golz, H.M.* 2019. Measuring instantaneous evapotranspiration rates of a forest understory post-disturbance using a portable, rapid evapotranspiration chamber, *Minnesota Water Resources Conference*, Oct. 15, Saint Paul, MN.
- Dymond, S.F.**, Bladon, K., Keppeler, E., Wagenbrenner, J. 2019. Drying and wetting characteristics of hillslopes in a coastal California forest, *Gordon Research Conference in Catchment Hydrology and Biogeosciences*, Jun. 25, Andover, NH.
- Haaf, L.*, **Dymond, S.F.**, Watson, E. 2018. Suppression of growth driven by sea level rise in Mid-Atlantic coastal Forests, *American Geophysical Union Fall Meeting*, Dec. 10, Washington, D.C.

- Dymond, S.F.**, Bladon, K., Keppeler, E., Wagenbrenner, J. 2018. Hillslope soil moisture patterns in a California coastal forest, *American Geophysical Union Fall Meeting*, Dec. 12, Washington, D.C.
- Stoll, K.*, **Dymond, S.**, Swenson, J. 2018. Isotopic signatures of precipitation along Lake Superior: A case study from the Lester River, *Minnesota Water Resources Conference*, Oct. 16, St Paul, MN.
- Keppeler, E., **Dymond, S.F.**, Webb, L., Wagenbrenner, J., Cafferata, P. 2018. The influence of stand density reduction on watershed processes in a coast redwood forest, *Society of American Foresters Annual Meeting*, Oct. 3, Portland, OR.
- Golz, H.*, Etterson, J.R., Haines, D.S., **Dymond, S.F.** 2018. Response of forest understory species to experimental treatments that mimic climate change, *Botany Conference*, Jul. 21, Rochester, MN.
- Stoll, K.*, **Dymond, S.F.**, Swenson, J.B. 2018. Isotopic Signatures of Precipitation along Lake Superior, *St Louis River Summit*, Mar. 13, Superior, WI.
- Stoll, K.*, **Dymond, S.**, Swenson, J. 2018. Isotopic signatures of precipitation along Lake Superior, *Minnesota Water Resources Assembly and Research Symposium*, Jan. 19, St Paul, MN.
- Bladon, K., **Dymond, S.**, Keppeler, E., McNamara, J., McDonnell, J. 2017. A preliminary analysis of rainfall-runoff relationships and tree water use in four coast redwood catchments, *Gordon Research Conference: Interactions of Hydrology, Biology, and Geochemistry*, Jun. 25 – 30, Lewiston, ME.
- Saksa, P., Safeeq, M., **Dymond, S.** 2016. Implications of increasing forest density and vegetation water demand on drought impacts in CA montane forests, *American Geophysical Union Fall Meeting*, Dec. 15, San Francisco, CA.
- Dymond, S.**, Miniati, C., Bladon, K., Keppeler, E., Caldwell, P. 2016. Disentangling the response of streamflow to forest management and climate, *American Geophysical Union Fall Meeting*, Dec. 15, San Francisco, CA.
- Dymond, S.**, Keppeler, E. 2016. A third experiment at the Caspar Creek Experimental Watersheds, *Coast Redwood Science Symposium*, Sep. 13 – 16, Eureka, CA.
- Dymond, S.**, Kolka, R., Bolstad, P., Gill, K., Curzon, M., D'Amato, A. 2015. Excess winter precipitation limits lowland black spruce productivity, *American Geophysical Union Fall Meeting*, Dec. 16, San Francisco, CA.
- Kolka, R., Sebestyen, S., Campbell, J., Rustad, L., **Dymond, S.**, Green, M. 2015. Climate change effects on hydrologic processes in northern forests, *IUFRO International Conference*, Oct. 24 – 28, Kelowna, BC, Canada.
- Dymond, S.**, Bolstad, P., Kolka, R. 2012. The relationship between soil moisture and forest productivity: A pilot study, *Ecology Society of America Annual Meeting*, Aug. 9, Portland, OR.
- Dymond, S.**, Aust, W., Prisley, S., Eisenbies, M., Vose, J., Dolloff, C.A. 2010. Modeling streamflow responses to road density in the Coweeta Watershed, NC, *Council on Forest Engineering Annual Meeting*, Jun. 6 – 9, Auburn, AL.
- Dymond, S.**, Aust, W.M., Prisley, S., Eisenbies, M. 2010. Using a distributed hydrology model to predict streamflow response to forest road density, *Forest Resources Graduate Symposium*, Mar. 3, Blacksburg, VA.

TEACHING EXPERIENCE

Northern Arizona University, School of Forestry

- FOR 320 – Environmental Hydrology: Spring 2023 – 2024
 FOR 321 – Forest Watershed Management: Fall 2022 – 2024
 FOR 599 – Forest Hydrology: Fall 2023
 FOR 599 – Wildland Soils: Fall 2024

University of Minnesota Duluth, Department of Earth and Environmental Sciences

- ESCI/GEOL 2010 – Surface Processes: Fall 2018
 ESCI 3203 – Environmental Hydrology: Spring 2019 – 2022
 ESCI 4201/5201 – Watershed Hydrology: Spring 2017 – 2019; Fall 2019, 2021
 ESCI 4280 – Principles of Soil Science: Spring 2022
 ESCI/BIOL 4360/5360 – Ecosystems Ecology and Biogeochemistry: Spring 2018, Spring 2020
 ESCI/CHEM 5150 – Stable Isotopes Biogeochemistry: Spring 2021

University of Minnesota, Department of Forest Resources (TA)

- FR 3114/5114 – Hydrology and Watershed Management: Fall 2012, Fall 2013, Fall 2014

Virginia Tech, Department of Forestry (TA)

- FOR 2324 – Dendrology: Spring 2007, Fall 2008, Fall 2009
 FOR 3724 – Forest Boundaries and Roads: Spring 2008

STUDENT ADVISEES

Graduate Student Committee Chair or Co-Chair

Jaime Ortega Melendez, PhD, Forest Science, Northern Arizona University (2028, *anticipated*)
Mairead Brogan, PhD, Forest Science, Northern Arizona University (2027, *anticipated*)
Emory Ellis, PhD, Forest Science, Northern Arizona University (2027, *anticipated*)
Emily White, MS, Forestry, Northern Arizona University (2026, *anticipated*)
Connor Garrod, MS, Biology, Northern Arizona University (2026, *anticipated*)
Haley Farwell, MS, Forestry, Northern Arizona University (2025, *anticipated*)
Sara Mohandes Samani, MS, Civil and Environmental Engineering, Univ. of Minnesota (2025, *anticipated*)
Elise Miller, PhD, Water Resources Science, Univ. of Minnesota (2025, *anticipated*)
Erika Winner, MS, Water Resources Science, Univ. of Minnesota (2025, *anticipated*)
Erin Bergen, MS, Integrated Biosciences, Univ. of Minnesota Duluth (2024)
David J. Adams, MS, Water Resources Science, Univ. of Minnesota (2023)
Mitch Ihlant, MS, Water Resources Science, Univ. of Minnesota (2021)
Emma Burgeson, MS, Water Resources Science, Univ. of Minnesota (2021)
Julia Petreshen, MS, Earth Sciences, Univ. of Minnesota Duluth (2021)
Hannah Behar, MS, Water Resources Science, Univ. of Minnesota (2020)
Shelby Hammerschmidt, MS, Water Resources Science, Univ. of Minnesota (2020)
Kinzey Stoll, MS, Water Resources Science, Univ. of Minnesota (2019)

Graduate Student Committee Member

Rayni Lewis, PhD, Ecological and Environmental Informatics, Northern Arizona University (*In progress*)
Mariel Jones, PhD, Water Resources Science, Univ. of Minnesota (*In progress*)
Julia Tatum, PhD, Ecological and Environmental Informatics, Northern Arizona University (*In progress*)
Juliet Smith, MS, Forestry, Northern Arizona University (2024)
Cole Denver, MS, Geology, Northern Arizona University (2024)
Emily Pavlovic, MS, Integrated Biosciences, Univ. of Minnesota Duluth (2022)
Elise Miller, MS, Integrated Biosciences, Univ. of Minnesota Duluth (2022)
LeeAnn Haaf, PhD, Biodiversity, Earth, & Environmental Science, Drexel University (2022)
Jenny Schwietz, MS, Integrated Biosciences, Univ. of Minnesota Duluth (2021)
Maria Berkeland, MS, Integrated Biosciences, Univ. Minnesota Duluth (2020)
Nick Budde, MS, Geologic Sciences, Univ. Minnesota Duluth (2020)
Lara Scott, MS, Water Resources Science, Univ. Minnesota (2020)
Haley Groz, MS, Integrated Biosciences, Univ. Minnesota Duluth (2019)
Chanelle Cruz, MS, Civil Engineering, Univ. Minnesota Duluth (2018)
Natalie McMann, MS, Integrated Biosciences, Univ. Minnesota Duluth (2018)
Steve Labuz, MS, Civil Engineering, Univ. Minnesota Duluth (2017)

Undergraduate Research Advisor

CJ Hyatt, BS Forestry, Northern Arizona University (2025)
Eric Alvarez, BS Environmental Science, Univ. Minnesota Duluth (2022)
Mackenzie Keinholtz, BS Environmental Science, Univ. Minnesota Duluth (2022)
Anna Mayou, BS Environmental Science, Univ. Minnesota Duluth (2021)
Faith Breeden, BS, Environmental Science, Univ. Minnesota Duluth (2020)
Michaela Buda, BS, Environmental Science, Univ. Minnesota Duluth (2020)
Peter Bouchard, BS, Environmental Science; BS, Biology, Univ. Minnesota Duluth (2019)
Alex Peichel, BS, Environmental Science; BS, Biology, Univ. Minnesota Duluth (2019)
Lucas Fossum, BS, Environmental Science, Univ. Minnesota Duluth (2018)

AWARDS AND HONORS

Researcher of the Year, Northern Arizona University School of Forestry, 2024
James P. Riehl Young Teacher Award, Univ. of MN Duluth College of Sci. & Engineering, 2022
Graduate Student Leadership Award, Univ. of MN College of Food, Ag, and Natural Resource Sci, 2014
Leiton E. Nelson Scholarship, University of Minnesota Department of Forest Resources, 2014
Student Scholarship (full tuition and travel), Univ. of Utah Stable Isotopes in Ecology Course, 2012

Outstanding Master's Student, Virginia Tech Department of Forestry, 2010
Outstanding Senior Award, Virginia Tech Department of Forestry, 2007
Peter B. Feret Memorial Undergraduate Scholarship, Virginia Tech Department of Forestry, 2006
Xi Sigma Pi, Natural Resources Honor Society, 2005
Gamma Sigma Delta, Natural Agriculture Honor Fraternity, 2005
First Place, Roy G. Mills Geology Competition, 2004

PROFESSIONAL SERVICE AND DEVELOPMENT

Media Appearances

KNAU, "Flagstaff Snowfall About Average; what that means for forest health and water supply", Feb. 20, 2023.
Fox 21 News, *Experts: Vegetation in and Around BWCA Fires Will Come Back Stronger*, Sep. 2, 2021.
WDIO ABC, "They Are Pretty Resilient": Expert Weighs in on Forests After Wildfires, Sep. 1, 2021.
Science News, Decades of dumping acid suggest acid rain may make trees thirstier, Jul 30, 2019.
<https://www.sciencenews.org/article/decades-dumping-acid-suggest-acid-rain-may-make-trees-thirstier?tgt=nr>

Professional Service Activities

Secretary, CUAHSI Board of Directors, 2025 – 2026
Chair, AGU Ecohydrology Technical Committee, 2022 – 2024
Judge, AGU Outstanding Student Presentation Awards, 2024
External Search Committee Member, USDA Forest Service, 2023
Session Convener and Chair, AGU Fall Meeting, 2023
Workshop Participant, NSF Convergence Accelerator on Water for a Changing Planet, 2022
Invited Panelist, Town Hall Discussion at Frontiers in Hydrology Meeting, 2022
Special Topics Editor, *Frontiers in Forests and Global Change*, 2022 – present
Session Convener and Chair, Frontiers in Hydrology Meeting, 2022
Chair Elect, AGU Ecohydrology Technical Committee, 2020 – 2022
Topics Editor, *Frontiers in Forests and Global Change*, 2021
Session Convener and Chair, AGU Fall Meeting, 2020
Guest Associate Editor, *Frontiers in Forests and Global Change*, 2020 – present
Trained Facilitator, AdvanceGEO Train the Trainers, 2020 – present
Session Convener and Chair, AGU Fall Meeting, 2019
Outstanding Student Presentation Awards Liaison, 2019
Judge, AGU Outstanding Student Presentation Awards, 2019
Member, CUAHSI Diversity and Inclusion Committee, 2019
Review Editor, *Frontiers in Forests and Global Change-Forest Hydrology*, 2018 - present
Member, CUAHSI Technical Committee, 2018
Session Convener and Chair, AGU Fall Meeting, 2018
Outstanding Student Presentation Awards Liaison, 2018
Judge, AGU Outstanding Student Presentation Awards, 2018
Organizer, Northwoods Women in Science, 2018
Member, Minnesota Forest Resources Council Advisory Committee, 2018
Search Committee Member, Natural Resources Research Institute, 2017
Panel Member, Northwoods Women in Science, 2017, 2018
Volunteer, Society of American Foresters 5th Grade Forestry Field Day, 2017
Mentor, AGU Fall Meeting Undergraduate Mentor Pilot Program, 2015
Member, AGU Ecohydrology Technical Committee, 2015 – present
Organized Oral Session Organizer, AGU Fall Meeting, 2015
Member, Earth Science Women's Network Awards Committee, 2015
Organized Oral Session Organizer, 99th Annual ESA Conference, 2014
Session Moderator, 98th Annual ESA Conference, 2013
Session Moderator, 98th Annual ESA Conference, 2012
Judge, Academy for Sciences & Agricultural Science Fair, 2012 – 2013
Judge, James M. Murray Junior High Science Fair, 2011 – 2013
Moderator, Minnesota 4H Soils Competition, 2011
Judge, Roanoke Valley Governor's School Project Forum, 2010

Journal Reviewer

Journal of Hydrology, Water Resources Research, Hydrological Processes, Science of the Total Environment, Agricultural and Forest Meteorology, Environmental Research Letters, Ecohydrology, Environmental Indicators, Frontiers in Forests and Global Change, Forests, Forest Science, Canadian Journal of Forest Research, Water, PLoS One, Frontiers in Environmental Science, Agronomy

Grant/Fellowship Reviewer

National Science Foundation, Department of Energy, US Geological Survey, Swiss National Science Foundation, USDA AFRI, Univ. Nevada Reno Hatch Funds Reviewer, CUAHSI Pathfinder Fellowship Program, USDA Mount Pleasant Research Natural Area, American Geophysical Union Student Travel Grants, Wisconsin Sea Grant

Institutional Service

Member, P&T Guidelines Committee, CEFNS, Northern Arizona University, 2024 – 2025
Member, Comprehensive Review Committee, School of Forestry, Northern Arizona University, 2024 – 2025
Member, Hiring Committee, School of Forestry, Northern Arizona University, 2022 – 2024
Member, School of Forestry DEIJ Committee, Northern Arizona University, 2022 - present
Co-Chair, Academic Users of the Research Field and Studies Center, Univ. Minnesota Duluth, 2021 – 2022
Member, Antiracist Learning Community, Univ. Minnesota Duluth, 2021 – 2022
Climate Change Panelist, Univ. Minnesota Institute on the Environment, 2021
Unlearning Racism in Geosciences (URGE) Pod Member, Univ. Minnesota Duluth, 2021
Fellow, SCSE Climate Team, Univ. Minnesota Duluth, 2020 – present
NRRRI Forest Optimization Tool Committee Advisor, Univ. Minnesota Duluth, 2020
Teaching and Learning Committee Member, SCSE, Univ. Minnesota Duluth, 2019 – 2022
Mini Grant Reviewer, Institute on the Environment, Univ. Minnesota, 2019
WRS Executive Committee Member, Univ. Minnesota System, 2018 – 2020
SCSE Scholar's Day Volunteer, Univ. Minnesota Duluth, 2018
Curriculum Committee, Dept. Earth & Environmental Sci., Univ. Minnesota Duluth, 2017 – 2022
Environmental Science Club Advisor, Univ. Minnesota Duluth, 2017 – 2019
Undergraduate Research Opportunity Reviewer, Univ. Minnesota Duluth, 2017
Member, Univ. Minnesota CFANS Graduate Research Policy Review Committee, 2013 – 2014
Outreach Chair, Univ. Minnesota Natural Resources Assn. of Graduate Students, 2013
Member, Univ. Minnesota CFANS/CBS Merger Task Force Committee, 2013
Member, Univ. Minnesota CFANS Information Technology Committee, 2011 – 2012
Panel Member, Univ. Minnesota FR 1011-Introduction to Graduate School, 2012
Founder, Univ. Minnesota Natural Resources Assn. of Graduate Students, 2012
President, Univ. Minnesota Natural Resources Assn. of Graduate Students, 2012
Presenter and Volunteer, Univ. Minnesota Teach SMART, 2011
Panel Member, 2nd Annual Virginia Tech FREC Dept. Graduate Symposium, 2010
Member, Virginia Tech FREC Dept. Graduate Symposium Planning Committee, 2009 – 2010
Presenter, Virginia Tech College of Natural Resources Graduate Orientation, 2008 – 2009
Member, Virginia Tech College of Natural Resources Alumni Board of Directors, 2007 – 2010
Alumni Ambassador, Virginia Tech College of Natural Resources, 2007 – 2010
Student Mentor, Virginia Tech College of Natural Resources, 2007 – 2011
Student Ambassador, Virginia Tech College of Natural Resources, 2006 – 2007

Additional Academic and Professional Training

Faculty Success Program, Spring 2023
Teaching as an Act of Solidarity, Flagstaff, AZ, Oct. 28, 2022.
Cornell Tree Climbing for Scientists, Ithaca, NY, Sep. 27 – 30, 2021.
Mobile Online Summer Institute (MoSI), Duluth, MN, Jul. 12 – 16, 2021.
AdvanceGEO Train the Trainers, Lawrence, KS, Jan. 9 – 10, 2020.
Consortium of Universities for the Advancement of Hydrologic Science, Inc. Snow School, Bozeman, MT, Jan. 6 – 11, 2019.
Early Career Geosciences Faculty Workshop (*competitive invitation*), The Science Education Resource Center at Carleton College (SERC), Baltimore, MD, Jul. 9 – 14, 2017.

International Forest Hydrology Science Workshop (*invitation only*). Oregon State University College of Forestry, Portland, OR., Dec. 9 – 11, 2015.

High Impact Communications for Scientists Workshop, USDA Forest Service, Davis, CA, Nov. 4 – 5, 2015.

Introduction to Bayesian and Hierarchical Bayesian Modeling Workshop, Ecological Society of America Meeting, Minneapolis, MN. Aug. 4, 2013.

Stable Isotopes in Ecology Lecture and Laboratory Courses (*competitive invitation*). University of Utah, Salt Lake City, UT. Jun. 6 – 24, 2012.

Professional Affiliations

Arizona Hydrological Society (2025 – present); International Union of Forest Research Organizations (2023 – present); Northwoods Women in Science (2018 – 2022); Association for Women in Science (2015 – present); International Association of Hydrological Sciences (2015 – present); Earth Science Women’s Network (2012 – present); American Geophysical Union (2012 – present); Ecological Society of America (2012 – 2014); Soil Science Society of America (2008 – 2013); Society of American Foresters (2006 – present)