

# SCHOOL OF FORESTRY

## MONTHLY NEWSLETTER



SEPTEMBER 2020



### THE NAU SCHOOL OF FORESTRY

The NAU forestry program is a vibrant, diverse and active place of learning and research and a feeling of community. Here are just some of the activities this month of our internationally distinguished faculty and researchers.

The School of Forestry is a gateway to a fulfilling forestry career; it's also an invitation to create sustainable solutions for the natural world and outdoor enjoyment for years to come.

### PUBLICATIONS THIS MONTH

Featured Faculty: D. Auty, M. Bowker, C. Chambers, R. Hofstetter, K. Kolb, J. Jenness, Y.S. Kim, A. Sánchez Meador, K. Waring, and A. Thode

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### AWARDS & GRANTS

Faculty: Han-Sup Han

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### PRESENTATIONS & OUTREACH

Andi Thode, Jeff Jenness, Kristen Waring, Al Hendricks

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For more information visit [nau.edu/forestry](http://nau.edu/forestry)

## Publications:

- Colavito, M., Wolfson, B.S., Thode, A.E., Haffey, C. and Kimball, C., 2020. Integrating art and science to communicate the social and ecological complexities of wildfire and climate change in Arizona, USA. *Fire Ecology*, 16(1), pp.1-10 <https://fireecology.springeropen.com/articles/10.1186/s42408-020-00078-w>
- Knowles, J.F., Scott, R.L., Biederman, J.A., Blanken, P.D., Burns, S.P., Dore, S., Kolb, T.E., Litvak, M.E. and Barron-Gafford, G.A., Montane forest productivity across a semi-arid climatic gradient. *Global Change Biology*. DOI:10.1111/gcb.15335 <https://onlinelibrary.wiley.com/doi/abs/10.1111/gcb.15335>
- Yao, X., Bowker, M.A., Xiao, B. 2020. Estimation of annual CO<sub>2</sub> efflux of biocrusts through measuring and simulating their respiration rate in a semiarid climate. *Geoderma* 376, 114560
- Xiao, B., Bowker, M.A. 2020. Biocrusts strongly decrease soil surface albedo, altering land-surface energy balance in a dryland ecosystem. *Science of the Total Environment* 741, 140425
- Roussel, J-R., Auty, D., Coops, N.C., Tompalski, P., Goodbody, T.R.H., **Sánchez Meador, A.J.**, Bourdon, J-F., de Boissieu, F., Achim, A. 2020. lidR: An R package for analysis of Airborne Laser Scanning (ALS) data. *Remote Sensing of Environment*, Volume 251. <https://doi.org/10.1016/j.rse.2020.112061>
- Waldron K, Auty D, Tong T, Ward C, Pothier D, Paes Torquato L, Achim A. (2020) Fire as a driver of wood mechanical traits in the boreal forest. *Forest Ecology and Management* 476, 118460 <https://doi.org/10.1016/j.foreco.2020.118460>
- Rodman, Kyle C., Thomas T. Veblen, Mike A. Battaglia, Marin E. Chambers, Paula J. Fornwalt, Zachary A. Holden, Thomas E. Kolb, Jessica R. Ouzts, and Monica T. Rother. "A changing climate is snuffing out post-fire recovery in montane forests." *Global Ecology and Biogeography*. <https://onlinelibrary.wiley.com/doi/10.1111/geb.13174>
- Falco, G. and Waring, K.M., 2020. Community Classification of Piñon-Juniper Vegetation in the Four Corners Region, USA. *Forest Science*. <https://academic.oup.com/forestscience/advance-article-abstract/doi/10.1093/forsci/fxaa024/5903672?redirectedFrom=fulltext>.
- Apriani, E., Kim, Y.S., Fisher, L.A. Baral, H. 2020. Non-state certification for sustainable palm oil in Sumatra, Indonesia. *Land Use Policy* 99 (2020) 105112 [https://authors.elsevier.com/sd/article/S0264-8377\(19\)31367-5](https://authors.elsevier.com/sd/article/S0264-8377(19)31367-5)
- Riquelme, M.A., R.W. Hofstetter, D. Auty and M.L. Gaylord. 2020. Bunching as a Method to Reduce Wood Moisture through Transpirational Drying following Forest Restoration Treatments in Northern Arizona. *Journal of Forestry*, fvaa038 <https://doi.org/10.1093/jofore/fvaa038>
- Hofstetter, R.W., Copp, B.E. and Lukic, I., 2020. Acoustic noise of refrigerators promote increased growth rate of the gray mold *Botrytis cinerea*. *Journal of Food Safety* <https://onlinelibrary.wiley.com/doi/full/10.1111/jfs.12856>
- Martínez-Fonseca, J. G.**, A. Medina-Fitoria, E. P. Westeen, and **C. L. Chambers**. 2020. Revised checklist of the bats (Mammalia: Chiroptera) of Nicaragua. *Occasional Papers of the Museum of Texas Tech University*. No 369 <https://www.depts.ttu.edu/nsrl/publications/downloads/OP369.pdf>



**Grants:**

Han-Sup Han

ACC – Training Center Development Project from DOC Bureau: Economic Development Administration

**Presentations:**

Andi Thode

Success story video: Collaborative tools & science developed through the Joint Fire Science Program: Southwest FireCLIME. <https://youtu.be/DjsZ6c-bAbk>

Jeff Jenness

"The Springs Stewardship Institute Geodatabase" to the Society for Conservation GIS (SCGIS) Virtual Conference Series  
[https://youtu.be/OXp2h\\_mL-rg](https://youtu.be/OXp2h_mL-rg)

Kristen Waring

Panel member: The 2020 WPEF Science and Management Virtual Conference <https://whitebarkfound.org/conferences/this-years-conference-virtual-conference/>

Kristen Waring

1-hour webinar (Using interdisciplinary research across scales to manage for healthy species and forests) for Forest Service Region 6 on the products of a Special Technology Development Program funded project.

Al Hendricks

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