

CURRICULUM VITAE

Jacob D. Putney, M.S., CCF

**Assistant Professor (Practice)
Extension Agent**

Oregon State University

Department of Forest Engineering, Resources and
Management | **College of Forestry**

OSU Extension Service | **Forestry and Natural Resources**
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Education

Oregon State University	2019
M.S., Forest Biometrics; Minor, Statistics	
Thesis: <i>Assessing Mechanisms of Douglas-fir Growth Response to Operational Nitrogen Fertilization in Western Oregon</i>	
Oregon State University	2016
B.S., Forest Management; Minor, Business; <i>Cum Laude</i>	

Teaching

Credit Courses

Graduate Teaching Assistant – College of Forestry, Oregon State University		
FOR 322 – Forest Models		
Winter 2017	30 Students	3 Credit (Quarter)
Winter 2018	26 Students	3 Credit (Quarter)
Winter 2019	34 Students	3 Credit (Quarter)

Webinars

<i>Managing Lodgepole Pine Forests</i>	2021
Managing Eastern Oregon Forests Webinar Series	
Forestry & Natural Resources Extension Program	
Zoom Webinar, April 22, 2021	
Role: Presenter Attendees: 49	

<i>Managing Mixed-Conifer Forests</i>	2021
Managing Eastern Oregon Forests Webinar Series Forestry & Natural Resources Extension Program Zoom Webinar, April 8, 2021 Role: Presenter Attendees: 78	
<i>Principles of Density Management</i>	2021
Managing Eastern Oregon Forests Webinar Series Forestry & Natural Resources Extension Program Zoom Webinar, January 28, 2021 Role: Presenter Attendees: 108	
<i>Managing Your Forest with Fire in Mind</i>	2020
Tree School Online Zoom Webinar, December 15, 2020 Role: Moderator Attendees: 86	
<i>Introduction to Forest Vegetation Simulator (FVS) Online</i>	2020
Workshop for forestry and natural resource consultants Zoom Meeting, December 15, 2020 Role: Organizer, Presenter Attendees: 2	
<i>Trees and Forestry</i>	2020
4H Cloverbuds Meeting 4H Program, Grant County Extension Zoom Meeting, December 14, 2020 Role: Presenter Attendees: 2 (Adult); 8 (Youth)	
<i>Replanting Your Forest After Timber Harvest or Wildfire</i>	2020
Tree School Online Zoom Webinar, December 1, 2020 Role: Moderator Attendees: 66	
<i>Dwarf Mistletoe</i>	2020
Forests of Eastern Oregon Webinar Series Forestry & Natural Resources Extension Program Zoom Webinar, October 8, 2020 Role: Presenter Attendees: 50	
<i>Abiotic Stress in Conifers</i>	2020
Forests of Eastern Oregon Webinar Series Forestry & Natural Resources Extension Program Zoom Webinar, September 10, 2020 Role: Presenter Attendees: 64	
<i>Density Management Concepts</i>	2020
Forests of the Northern Blues Webinar Series Forestry & Natural Resources Extension Program Zoom Webinar, April 21, 2020 Role: Presenter Attendees: 52	
<i>Douglas-fir Growth Response to Nitrogen Fertilization in Western Oregon</i>	2018
Science and Technology Webinar Series Washington Department of Natural Resources Role: Presenter	

Outreach and Engagement

<i>Forestry and Natural Resources Profession Experience</i> Department of Human Services, Baker Technical Institute, Baker Resources Coalition Baker City, OR, August 2-3, 2021 Role: Presenter Attendees: 8	2021
<i>Compass and Pacing (4th Grade)</i> Summer Academy, Baker School District Baker City, OR, July 22, 2021 Role: Presenter Attendees: 2 (Adult); 17 (Youth)	2021
<i>Compass and Pacing (5th Grade)</i> Summer Academy, Baker School District Baker City, OR, July 22, 2021 Role: Presenter Attendees: 1 (Adult); 10 (Youth)	2021
<i>Compass and Pacing (6th Grade)</i> Summer Academy, Baker School District Baker City, OR, July 22, 2021 Role: Presenter Attendees: 2 (Adult); 17 (Youth)	2021
<i>Trees and Tree Species (3rd Grade [1])</i> Summer Academy, Baker School District Baker City, OR, July 20, 2021 Role: Presenter Attendees: 3 (Adult); 15 (Youth)	2021
<i>Trees and Tree Species (3rd Grade [2])</i> Summer Academy, Baker School District Baker City, OR, July 20, 2021 Role: Presenter Attendees: 2 (Adult); 15 (Youth)	2021
<i>Introduction to Forestry and Tree Measurements</i> Summer Ag Institute, EOARC La Grande, OR, July 19, 2021 Role: Presenter Attendees: 16 (Adult)	2021
<i>Forest Health and Fire Risk</i> Presentation at Spring Creek Firewise Community Meeting Spring Creek Community, OR, September 12, 2020 Role: Presenter Attendees: 30 (Adult)	2020
<i>Introduction to Eastern Oregon Forests</i> Presentation and field day for a family of landowners Halfway, OR, August 3, 2020 Role: Organizer, Presenter Attendees: 8 (Adult); 2 (Youth)	2020
<i>Introduction to Forest Vegetation Simulator (FVS) Online</i> Workshop for forestry and natural resource consultants Baker City, OR, February 21, 2020 Role: Organizer, Presenter Attendees: 4 (Adult)	2020

<i>Baker County Small Woodlands: February Meeting</i>	2020
Introduction and panel discussion on Firewise Communities Baker City, OR, February 20, 2020 Role: Organizer, Presenter Attendees: 17 (Adult)	
<i>East Face Friday Fun Day</i>	2019
Field tour for High School Students Baker County, OR, October 25, 2019 Role: Presenter Attendees: 3 (Youth)	
<i>Final Assessment of Stimson Lumber Company Fertilization Trials</i>	2018
Presentation of final analysis of growth response to Stimson Lumber Company Fertilization Trials for Stimson staff and stakeholders who organized and implemented the project Gaston, Oregon, December 19, 2018.	
<i>Preliminary Assessment of Stimson Lumber Company Fertilization Trials</i>	2018
Presentation of preliminary analysis of growth response to Stimson Lumber Company Fertilization Trials for Stimson staff and stakeholders who organized and implemented the fertilization project Gaston, Oregon, April 24, 2018	
<i>Forest Stand Modeling: An Introduction to Simulating Forest Growth</i>	2017
Science, Technology, Engineering, and Mathematics (STEM) Academy Oregon State University	

Professional Experience

Assistant Professor (Practice), Extension Agent Forestry and Natural Resources Extension Program College of Forestry, Oregon State University	August 2019 – Present
Graduate Research Assistant Department of Forest Engineering, Resources and Management College of Forestry, Oregon State University	September 2016 – June 2019
Research Assistant Department of Forest Engineering, Resources and Management College of Forestry, Oregon State University	July 2016 – September 2016
Forestry Technician Oregon State University College Research Forest College of Forestry, Oregon State University	December 2014 – July 2016
Recreation Program Assistant Oregon State University College Research Forest College of Forestry, Oregon State University	May 2014 – December 2014
Candidate Certified Forester (CCF) Society of American Foresters Accreditation	Current
Qualified Inspector Inspector ID: 172160 American Tree Farm System (ATFS) American Forest Foundation	Current

Publications and Intellectual Contributions

Refereed Publications

- Putney, J.D.**, Maguire, D.A. 2021. Response of Douglas-fir stem profile to operational nitrogen fertilization in western Oregon. *Forest Ecology and Management* 496. DOI: [10.1016/j.foreco.2021.119411](https://doi.org/10.1016/j.foreco.2021.119411)
- Putney, J.D.**, Maguire, D.A. 2020. Shifts in foliage biomass and its vertical distribution in response to operational nitrogen fertilization of Douglas-fir in western Oregon. *Forests* 11(5), 511. DOI: [10.3390/f11050511](https://doi.org/10.3390/f11050511)

University

- Putney, J.D.**, Maguire, D.A., Mainwaring, D.B., Banks, M. 2019. Response of inside-bark stem profile to operational fertilization of mid-rotation Douglas-fir. Pp. 28-33 in D.A. Maguire and D.B. Mainwaring (eds.), 2018 CIPS Annual Report. Center for Intensive Planted-forest Silviculture (CIPS), College of Forestry, Oregon State University, Corvallis, OR, USA.
- Putney, J.D.**, Maguire, D.A., Mainwaring, D.B., Banks, M. 2019. Responses of foliage amount and its vertical distribution in nitrogen fertilized Douglas-fir trees. Pp. 34-39 in D.A. Maguire and D.B. Mainwaring (eds.), 2018 CIPS Annual Report. Center for Intensive Planted-forest Silviculture (CIPS), College of Forestry, Oregon State University, Corvallis, OR, USA.
- Putney, J.D.**, Maguire, D.A., Mainwaring, D.B., Banks, M. 2018. Shifts in vertical pattern of stem cross-sectional increment on nitrogen fertilized Douglas-fir. Pp. 37-40 in D.A. Maguire and D.B. Mainwaring (eds.), 2017 CIPS Annual Report. Center for Intensive Planted-forest Silviculture (CIPS), College of Forestry, Oregon State University, Corvallis, OR, USA.
- Putney, J.D.**, Maguire, D.A., Mainwaring, D.B., Banks, M. 2018. Shifts in Douglas-fir stem profile inside-bark in response to nitrogen fertilization. Pp. 33-36 in D.A. Maguire and D.B. Mainwaring (eds.), 2017 CIPS Annual Report. Center for Intensive Planted-forest Silviculture (CIPS), College of Forestry, Oregon State University, Corvallis, OR, USA.
- Putney, J.D.**, Maguire, D.A., Mainwaring, D.B. 2017. Analyzing 5-year Douglas-fir volume and diameter growth response to nitrogen fertilization in western Oregon. Pp. 46-52 in D.A. Maguire and D.B. Mainwaring (eds.), 2016 CIPS Annual Report. Center for Intensive Planted-forest Silviculture (CIPS), College of Forestry, Oregon State University, Corvallis, OR, USA.
- Punches, J.W., **Putney, J.D.**, Stokely, T.D., Cowan, A.D., Wollstein, K., Leavell, D.M. 2021. Vol. Winter 2021. Oregon State University. 16p.
- Punches, J.W., **Putney, J.D.**, Stokely, T.D., Berger, C.A., Leavell, D.M. 2020. *Life on the Dry Side*. Vol. Fall 2020. Oregon State University. 16p.
- Punches, J.W., Strong, N.A., **Putney, J.D.**, Johnson, K.A., Martel, K., Giannico, G.R., Wisdom, M., Rowland, M., Joyce, B., Dinkins, J.B., Johnson, D.D., Schroeder, V., Brummer, F.A. 2020. *Life on the Dry Side*. Vol. Summer 2020. Oregon State University. 16p.

Punches, J.W., Strong, N.A., **Putney, J.D.**, Martel, K., Johnson, K. 2020. *Life on the Dry Side*. Vol. Winter 2020. Oregon State University. 16p.

Punches, J.W., Leavell, D.M., Strong, N.A., **Putney, J.D.** 2019. *Life on the Dry Side*. Vol. Fall 2019. Oregon State University. 16p.

Professional

Putney, J.D., Werling, R.A., Bennett, M. 2020. *Benefits and Techniques for Improving Water Quality*. Oregon Small Woodlands, Washington Farm Forestry, Idaho Forest Owners, & Montana Forest Owners Associations. Northwest Woodlands: Volume 36, Number 3.

Putney, J.D., 2019. *The Road to Becoming a Certified Forester*. Society of American Foresters. Western Forester: Volume 64, Number 3.

Putney, J.D., 2017. *What's a forest without a forester? A student perspective on the future*. Society of American Foresters, Western Forester: Volume 62, Number 2.

Podcasts

Putney, J.D. (Host), Bladon, K.D. (Guest). *Episode 7: Water*. In The Woods Podcast. Released May 2021. [In The Woods Podcast Episode 7](#)

Putney, J.D. (Host), Shaw, D.C. (Guest). *Episode 4: Forest Health*. In The Woods Podcast. Released February 2021. [In The Woods Podcast Episode 4](#)

Putney, J.D. (Host), Bailey, J.D. (Guest). *Episode 3: How Forests Grow*. In The Woods Podcast. Released January 2021. [In The Woods Podcast Episode 3](#)

Grand, L. (Host), **Putney, J.D.** (Contributor), O'Brien, J.P. (Contributor), Fitzgerald, S.A. (Contributor), Berger, C.A. (Contributor). *Episode 1: Welcome to the "In The Woods" Podcast*. In The Woods Podcast. Released October 2020. [In The Woods Podcast Episode 1](#)

Manuscripts in Progress

Putney, J.D., Maguire, D.A. Characterizing annual basal area growth responses to operation nitrogen fertilization of Douglas-fir in western Oregon. **FOR: Forest Ecology and Management**

Putney, J.D., Maguire, D.A. Seven-year volume growth response and economic viability of operational nitrogen fertilization in western Oregon. **FOR: Journal of Forestry**

Scholarship Activities

Oral Presentations

Putney, J.D., Maguire, D.A. 2019. Shifts in Douglas-fir vertical distribution of foliage in response to nitrogen fertilization in western Oregon. In: Proceedings, Society of American Foresters National Convention, Louisville, Kentucky, October 30 – November 3, 2019.

Putney, J.D., Maguire, D.A. 2018. Assessing shifts in vertical distribution of stem cross-sectional increment in response to nitrogen fertilization of Douglas-fir using a nonlinear mixed-effects modeling approach. In: Proceedings, Joint Southern and Northeastern Mensurationists and IUFRO 4.01 Conference, Blacksburg, Virginia, October 29-31, 2018.

Putney, J.D., Maguire, D.A., Mainwaring, D.B., Banks, M. 2018. Response of Douglas-fir basal area increment to nitrogen fertilization in western Oregon. In: Proceedings, Western Forestry Graduate Research Symposium, Oregon State University, Corvallis, Oregon, April 13, 2018.

Mainwaring, D.B. (Presenter), Maguire, D.A., **Putney, J.D.** 2019. Light interception and light use efficiency following thinning and fertilization in intensively managed Douglas-fir stands. In: Proceedings, XXV IUFRO World Congress, Curitiba, Brazil, October 4, 2019.

Poster Presentations

Putney, J.D., Maguire, D.A., Mainwaring, D.B. 2018. Assessing mechanisms of Douglas-fir growth response to nitrogen fertilization in western Oregon. In: Proceedings, Society of American Foresters National Convention, Portland, Oregon, Oct. 3-7, 2018.

Putney, J.D., Maguire, D.A., Mainwaring, D.B., Banks, M. 2017. Assessing mechanisms of Douglas-fir growth response to nitrogen fertilization in western Oregon. In: Proceedings, Society of American Foresters National Convention, Albuquerque, New Mexico, Nov. 15-19, 2017.

Putney, J.D., Maguire, D.A. 2017. Assessing mechanisms of Douglas-fir growth response to thinning. In: Proceedings, Western Forestry Graduate Research Symposium, Oregon State University, Corvallis, Oregon, April 13, 2018.

Center for Intensive Planted-forest Silviculture (CIPS) Presentations

Putney, J.D., Maguire, D.A., Mainwaring, D.B., Banks, M. 2019. Response of inside-bark stem profile to operational fertilization of mid-rotation Douglas-fir. CIPS Annual Meeting, Aurora, Oregon, June 12, 2019.

Putney, J.D., Maguire, D.A., Mainwaring, D.B., Banks, M. 2019. Responses of foliage amount and its vertical distribution on nitrogen fertilized Douglas-fir trees. CIPS Annual Meeting, Aurora, Oregon, June 12, 2019

Putney, J.D., Maguire, D.A., Mainwaring, D.B., Banks, M. 2018. The response of vertical foliage distribution to nitrogen fertilization in western Oregon Douglas-fir. CIPS Technical Review, Corvallis, Oregon, December 12, 2018.

Putney, J.D., Maguire, D.A., Mainwaring, D.B., Banks, M. 2018. Shifts in vertical pattern of stem cross-sectional increment on nitrogen fertilized Douglas-fir. CIPS Annual Meeting, Vancouver, Washington, June 13, 2018.

Putney, J.D., Maguire, D.A., Mainwaring, D.B., Banks, M. 2018. Shifts in Douglas-fir stem profile inside-bark in response to nitrogen fertilization. CIPS Annual Meeting, Vancouver, Washington, June 13, 2018.

Putney, J.D., Maguire, D.A., Mainwaring, D.B., Banks, M. 2017. Five-year diameter and annual basal area growth response to N-fertilization in western Oregon. CIPS Technical Review, Corvallis, Oregon, Dec. 13, 2017.

Putney, J.D., Maguire, D.A., Mainwaring, D.B., Banks, M. 2017. Analyzing five-year Douglas-fir volume and diameter growth responses to nitrogen fertilization in western Oregon. CIPS Annual Meeting, Aurora, Oregon, June 14, 2017.

Putney, J.D., Maguire, D.A., Mainwaring, D.B. 2017. Assessing mechanisms of Douglas-fir growth response to thinning: light and water availability. CIPS Technical Review, Corvallis, Oregon, Feb. 22, 2017.

Awards and Recognition

Dorothy D. Hoener Graduate Fellowship Department of Forest Engineering, Resources and Management College of Forestry, Oregon State University	2017 – 2018
Kelly Axe Award for Student Contribution College of Forestry, Oregon State University	2016
Xi Sigma Pi, Forestry Honor Society Zeta Chapter, Oregon State University	Inducted 2015

Service and Involvement

Professional

Society of American Foresters (SAF)	2015 – Present
Delegate-at-Large, Oregon SAF (OSAF)	Present
General Chair, OSAF Annual Meeting	2021
Chair, Blue Mountain Chapter	Present
Secretary, Blue Mountain Chapter	2020
Member, National Quiz Bowl Committee	2019 – Present
Planning Committee Member, PNW Leadership Conference	2020 – 2021
Planning Committee Member, OSAF Annual Meeting	2019
Secretary, Marys Peak Chapter	2018 – 2019
Judge, Moderator, Student Quiz Bowl, National Convention	2018
Organizer, Presenter, Student Field Tour, National Convention	2018
Northeast Oregon Small Woodlands Association (NEOSWA)	2021 – Present
Secretary	Present
Oregon Small Woodlands Association	2019 – Present
Associate Member	
Baker County Private Woodlands Association	2019 – 2021
Member	
Epsilon Sigma Phi (ESP)	2019 – Present
Association of Natural Resource Professionals (ANREP)	2019 – Present

University

Carbon Commitment Committee Extension Service Unit Representative Oregon State University	Present
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Coordinator Position Search Committee Search Advocate Northwest Fire Science Consortium	2021
Administrative Program Assistant Position Search Committee Search Chair Baker County Extension Service, Oregon State University	2021
Ad Hoc FNR Program Leader Onboarding Committee Co-Leader Forestry & Natural Resources Extension Program	2021
Oregon State University Extension Association (OSUEA)	2019 – Present
Research Forest Tier 1 Strategic Plan Graduate Student Representative, Advisory Committee Oregon State University College Research Forests College of Forestry, Oregon State University	2017 – 2019
Lee Harris Travel Grant Committee Treasurer College of Forestry, Oregon State University	2017 – 2018
Western Forestry Graduate Research Symposium Planning Committee Member College of Forestry, Oregon State University	2017 – 2018
Society of American Foresters (SAF) – OSU Student Chapter College of Forestry Booth Volunteer at Convention Graduate Student Representative Quiz Bowl Participant at Convention	2015 – 2019 2016, 2017, 2018 2017 – 2018 2016, 2017
OSU Forestry Club Alumni Contact President Vice President	2014 – 2019 2017 – 2019 2016 – 2017 2015 – 2016
National Get Outdoors Day Volunteer, Captain Oregon State University College Research Forests College of Forestry, Oregon State University	2014 – 2019

Public

Blue Mountain Forest Partners Member	2021 – Present
Oregon Prescribed Fire Council Northeast Oregon Chapter Member	2021 – Present
Northern Blues Forest Collaborative Member	2020 – Present
Baker Rural Fire Protection District Volunteer Firefighter (Support)	2020 – Present

Baker County Interagency Fire Prevention Team Member	2020 – Present
My Blue Mountains Woodland Member	2019 – Present
Baker Resources Coalition Steering Committee Member	2019 – Present
Eastern Oregon Forest Protection Association Member	2019 – Present

International Experience

Study Abroad

Mountains to the Sea: Ecosystems of Chile Oregon State University Faculty-led Program Universidad Austral de Chile, Valdivia, Chile Program Objective: Explore the complex ecological, climatic, and management dimensions of forest management, conservation, and restoration in Chile	March 24 – April 2, 2017
Forest Resources Management in Spain Oregon State University Faculty-led Program University of Valladolid, Palencia, Spain Program Objective: Understand the cultural, political, and biophysical context of managing forest resources in Spain	September 6 – 15, 2016