

## Angela Gonzalez Liotta

School of Environmental and Forest Sciences, University of Washington

### Education

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- 2022-Present **Ph.D., Environmental and Forest Science**, University of Washington  
Advisor: Dr. Brian Harvey
- 2022 **M.S., Forest Science**, Colorado State University  
Thesis: "Increased aridity is associated with stronger tradeoffs in ponderosa pine vital functions"  
Advisors: Dr. Miranda Redmond & Dr. Ian Pearse
- 2019 **B.A., Geography; Minor, Evolutionary Biology & Ecology**, University of Colorado  
Distinction, *Phi Beta Kappa*, *McNair Scholar*
- 2017 **A.A., General Studies**, Front Range Community College  
*Magna Cum Laude*, *Phi Theta Kappa*

**Publications:** [Google Scholar Profile](#); *Other Names: AD Gonzalez*

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### Peer Reviewed Publications (published)

- Gonzalez AD**, Pearse IS, Redmond MD. 2023 Increased aridity is associated with stronger tradeoffs in ponderosa pine vital functions. *Ecology* 104:e4120. <https://doi.org/10.1002/ecy.4120>
- Nigro KM, Bankston TZ, Demarest AB, Foster AC, **Gonzalez AD**, Hill EM, ... & Redmond MD. 2023 Mastication treatments increase perennial herbaceous cover across soil types in southeastern Colorado piñon-juniper woodlands. *Rangeland Ecology & Management*, 88, 28-38. <https://doi.org/10.1016/j.rama.2023.01.013>
- Pearse IS, Wion A, **Gonzalez AD**, Pesendorfer MB. 2021 Understanding mast seeding for conservation and land management. *Phil. Trans. R. Soc. B* 20200383. <https://doi.org/10.1098/rstb.2020.0383>
- Rodman KC, Veblen TT, Andrus RA, Enright NJ, Fontaine JB, **Gonzalez AD**, Redmond MD, Wion AP, A trait-based approach to assessing resistance and resilience to wildfire in two iconic North American conifers. *J Ecol.* 2020;00:1–14. <https://doi.org/10.1111/1365-2745.13480>

### In prep or review

- Liotta AG**, Donato DC, Halofsky JS, Harvey BJ. *In Prep*. Divergent trends and drivers of post-fire tree regeneration across a water-limitation gradient, USA. *For: Global Ecology and Biogeography*
- Nigro KM, **Liotta AG**, Redmond MD. *In Review*. The relative roles of population climate and maternal seed source on drought-adaptive traits in ponderosa pine. *For: Annals of Botany*
- Wion AP, **Liotta AG**, Pearse IS, Redmond MD. *In Prep*. Numerical validation of a method for rapidly reconstructing past cone production in conifers. *For: Methods in Ecology and Evolution*

### Reports

- Liotta AG**, Donato DC, Halofsky JS, Harvey BJ. Patterns and drivers of post-fire tree regeneration across gradients of climate and burn severity in Eastern Washington. Final Report. Washington Department of Natural Resources Agreement # 93-103187.

### Conference Presentations (\*Poster)

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- Liotta AG**, Harvey BJ. December 2025. Wildfire mediated changes to forest structure and compositional heterogeneity. *International Fire Ecology and Management Congress*, New Orleans LA.
- Gonzalez AD**, Donato DC, Halofsky JS, Harvey BJ. December 2023. Drivers of post-fire tree regeneration across gradients of climate and burn severity in Eastern WA, USA. *International Fire Ecology and Management Congress*, Monterey CA.

- Gonzalez AD**, Donato DC, Halofsky JS, Harvey BJ. August 2023. Drivers of post-fire tree regeneration across gradients of climate and burn severity in Eastern WA, USA. *Ecological Society of America*, Portland OR.
- Gonzalez AD**, Donato DC, Halofsky JS, Harvey BJ. March 2023. Drivers of post-fire tree regeneration across gradients of climate and burn severity in Eastern WA, USA. *Washington State Society of American Foresters*, La Conner WA.
- Gonzalez AD**, Donato DC, Halofsky JS, Harvey BJ. October 2023. Tracking Post-Fire Tree Regeneration in the East Cascades. *Washington Cooperative Fish and Wildlife Research Unit Annual Symposium*. Pullman, WA.
- Gonzalez AD**, Pearse IS, Redmond MD. February 2022. The Effects of Drought on Resource Allocation in ponderosa pine. *Forest Range Student Ecology Symposium*. Fort Collins, CO.
- \***Gonzalez AD**, Rodman KC, Veblen TT. October 2018. Drivers of Cone Production in *Pinus ponderosa*. *McNair's Scholars UNM Research Conference*. Albuquerque, NM

### Research Grants and Fellowships

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2026	Guardians of the Wild Fellowship, re:Wild, University of Washington. [\$50,000]
2026	Graduate Research Resilience Award, University of Washington [1 quarter tuition + stipend]
2025	Joint Fire Science Program Graduate Research Innovation (GRIN) Award [Student-PI; selected]
2022	ARCS Foundation Scholar (Fellow), University of Washington [\$17k – Fellow]
2022	GSEE Diversity Fellowship, University of Washington [3 quarters graduate tuition + stipend]
2022	UW Provost Fellowship, University of Washington [2 quarters graduate tuition + stipend]
2019	McNair Scholar Award, University of Colorado [\$2,800 – Fellow] <i>Shifts in Tree Mortality in Subalpine Zones</i>
2018	McNair Scholar Award, University of Colorado [\$2,800 – Fellow] <i>Drivers of Cone Production in Pinus ponderosa</i>

### Honors & Awards

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2025	Wayne Harrison Memorial Scholarship, Association for Fire Ecology [\$2,500]
2023	Center for Environmental Politics Graduate Fellow, University of Washington
2023	Student Association for Fire Ecology Chapter Grant, Association for Fire Ecology [\$365]
2023	Graduate Student Conference Travel Award, University of Washington [\$500]
2023	Association for Fire Ecology Conference Scholarship, Association for Fire Ecology [\$435]
2016	Latino Leadership, Achievement, and Development Scholar (LEADS), Front Range Community College [\$3,000]
2016	Michelle Keevan Halpern Scholar, Front Range Community College [3 semesters undergraduate tuition]

### Teaching and Mentoring Experience

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2026	Experiential Learning Supervisor, Interdisciplinary Honors Program, University of Washington
2026	Guest Lecturer, Climate Change Seminar Series, University of Washington
2025	Teaching Assistant, Forest Ecology, University of Washington
2025	Guest Lecturer (2), Forest Ecology, University of Washington
2025-Current	Mentor, Latinx Excellence Achievement Development Scholar, Front Range Community College
2024	Guest Lecturer (3), Forest Ecology, University of Washington
2024	Teaching Assistant, Forest Ecology, University of Washington

2024	Teaching Assistant, Forests, Fire, and Society: Past/Present/Future, University of Washington
2023	Doris Duke Conservation Scholars Program Mentor, University of Washington
2021	Teaching Assistant, Forest Ecology, Colorado State University
2021	Graduate Student Mentor, Colorado State University
2020	Teaching Assistant, Forest and Rangeland Ecogeography, Colorado State University
2019	Lab Assistant, Introduction to GIS, University of Colorado

### **Research Experience**

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2022-Current	Graduate Student Researcher, University of Washington, Seattle WA.
2020-2022	Graduate Student Researcher, Colorado State University, Fort Collins CO.
2019	Undergraduate Researcher, McNair Scholars, University of Colorado, Boulder CO.
2019	Undergraduate Lab Assistant, University of Colorado, Boulder CO.
2018	Undergraduate Researcher, McNair Scholars, University of Colorado, Boulder CO.

### **Volunteer and Services**

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Manuscript Reviewer; Journals: Fire Ecology, New Phytologist, Ecology, Australian Journal of Botany	
2025-Current	Student Association for Fire Ecology, National Officer, Vice President
2023-Current	Student Association for Fire Ecology UW Chapter, President, University of Washington
2023	SEFS Seminar Committee, University of Washington
2022-Current	Graduate Council Member, University of Washington
2023-2024	Faculty Search Committee, University of Washington
2021-Current	Scholarship Reviewer, FRCC Foundation, Front Range Community College
2021	Poster Judge, Celebrate Undergraduate Research and Creativity Symposium, Colorado State University
2020	Forest and Rangeland Science Seminar Committee, Colorado State University