#### **CURRICULUM VITAE**

**Adrian C. Gallo** 1686 SW Knollbrook Pl Corvallis, OR 97333

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## RESEARCH INTERESTS

I have a passion for communicating science to the public and to keep learning new things. I hope to use my environmental science skills to encourage the best management practices and to promote healthy sustainable communities. My specialties include system level analysis, biogeochemistry, ecosystem ecology, and landscape analysis. One goal for my career is to leave Earth, and its people, in better shape than when I entered it.

<b>EDUCATION</b>	
2022	Ph.D. in Sustainable Forest Management with a specialization in soil
	science. Oregon State University, OR. Dissertation title: Tracing sources
	of soil organic matter through time, across ecosystems, and down profiles.
2016	M.S. in Sustainable Forest Management. Thesis title: Response of soil
	temperature, moisture, and respiration two years following intensive
	organic matter and compaction manipulations in Oregon Cascade
	Forests.
2013	B.S. Soil Science, Geology Minor. California Polytechnic State
	University, CA. Undergraduate thesis title: Variability in soil climate and
	respiration on managed timber stands.

#### PROFESSIONAL EXPERIENCE

2020	Agriculture Extension Communications Intern. Oregon State University.
	Researching, interviewing, and writing stories on Oregon agricultural issues
	such as: weeds in organic systems, quinoa production, advancements in
	precision agriculture, wheat virus monitoring, healthy eating, invasive
	grasses, and higher-ed funding for Indigenous youth.
2019-2020	Freelance Consultant. Indigo Agriculture Inc.
	Analyzed and provided feedback on climate smart agricultural practices for
	water quality benefits and their durability for carbon sequestration.
2016-2022	Graduate Research Assistant. Oregon State University.
	Ph.D. focused on examining and interpreting soil qualities from deserts,
	grasslands, and forests in ecosystems across North America.
2013-2016	Graduate Research Assistant. Oregon State University.
	M.S. on intensive forest biomass removals on soil biophysical properties.
2013-2021	House Director. Phi Kappa Psi Fraternity - Oregon Beta Chapter.
	Oversaw operations of a non-profit with Chapter expenses of ~\$500,000 per
	year, managing COVID response, emergency insurance claims, mentoring
	~40 live-in members, & facilitating conflict resolution meetings.

Watershed Restoration Scientist. USDA Forest Service & Geological

**Society of America**.

Partnered with a team to generate soils data to inform forest and recreational management actions. Classified areas with GIS and field reconnaissance notes to target management efforts on areas with the greatest potential for restoration. Created professional presentations and proposed multi-objective

projects to USDA Forest Service managers.

2010/2011 Biological Science Technician of Natural Resources. USDA Forest

**Service. Craig, Alaska**. 2011 Award for Outstanding Job Performance Examined site qualities with a focus on risk mitigation of tree harvesting on steep backcountry slopes. Regular days included driving on narrow logging roads, hiking in mountainous/remote terrain, identifying and delineating wetlands, and conducting Northern Goshawks bird surveys. Some days required helicopter transport on short notice. Part of an interdisciplinary team of scientists to advance a practical and defensible 10-yr timber harvest plan.

#### TEACHING EXPERIENCE

2022 Winter Graduate Teaching Assistant. Forest Ecosystems & Society 240 – Forest

Biology. Oregon State University.

2021 Fall Instructor of Record. SOIL 205 & SOIL 206 – Intro to Soil Science

Lecture & Intro to Soil Science Laboratory. Oregon State University.

Cascades Campus, Bend, OR.

2020 Fall **Graduate Teaching Assistant**. Soil 102 – Intro to Environmental

Science. Oregon State University.

2019 Fall Graduate Teaching Assistant. Forest Engineering 430/530 – Watershed

Processes. Oregon State University.

2019-2021 Spring Instructor of Record. Forestry 206 & 208 – Forest Soils Lecture/Lab.

Designed forestry field trips teaching students soil sampling techniques for sustainable timber harvesting and agronomic production. Oregon State

University.

2018 Spring Graduate Teaching Assistant. Forestry 206 – Forest Soils Lab for Intro

to Soils Science & Forestry 208 – Forest Soils [Online version]. Oregon

State University.

2012-2013 Laboratory Manager. Natural Resource Management & Environmental

Sciences (NRES) Dept. California Polytechnic State University, CA.

2012 Fall & Winter Student Instructor. SOIL 121 – Intro to Soil Science Lab. Natural

Resource Management & Environmental Sciences (NRES) Dept.

California Polytechnic State University.

#### AWARDS & EXTRA CURRICULARS

2020-Present Member of the National Association for the Advancement of Colored People

(NAACP), Linn-Benton County Branch in Oregon. Committees include:

Communications, Environmental & Climate Justice.

2020-Present Member of the Society for Advancing Chicanos, Hispanics, & Native

Americans in Science (SACNAS).

2019	Award. Best Student Presentation in the Soil Chemistry division. "Roots to
	Regolith: Sources of Organic Matter across the National Ecological
	Observatory Network (NEON) Soil Plots". San Antonio, TX.
2018-2020	Contributor. Soils Matter Blog, Soil Science Society of America.
	Topics include porous pavement, sediment erosion, and mountain biking.
2015-2022	Podcast Producer and Writer. <u>Inspiration Dissemination</u> . Science
	communication radio show & blog for OSU graduate students. See primary
	authored <u>blog posts</u> (n=35) and podcast episode library (co-host n=80).
	Stories include environmental toxicology, water issues in the West, green
	energy transition, invasive species, human-bear interactions, microplastics in
	fish, social trust, and environmental justice issues.
2015	Award. Western Forestry Grad Research Symposium (WFGRS) Best Overall
	Presentation entitled: Biophysical responses in soil following intensive
	biomass removals and compaction treatments. Corvallis, OR.
2014	Award. Best Poster in Session – Wildland Soils Division. SSSA. Long
	Beach, CA.
2014	Award. Rick Stratchan Graduate Research Fellowship. FERM Dept.
	Corvallis, OR.
2013	Award. Professional Soil Scientist of the Year. Natural Resources &
0011	Environmental Sciences Department. California Polytechnic State Unv., CA.
2011	<b>Award</b> . Certificate of Outstanding Job Performance. USDA Forest Service.
•044	Craig, AK.
2011	Award. Royce Lambert Undergraduate Scholarship. NRES Dept. San
	Luis Obispo, CA.
2008	Award. Outstanding Senior Athlete of the Year. Deer Valley High
	School. Antioch, CA.

# ACADEMIC SERVICES

2015-2022	Member. American Geophysical Union (AGU).
2015-2020	Member. Northwest Forest Soils Council (NWFSC).
2015-2017	Executive Board Member. Oregon Society of Soil Scientists (OSSS) at
	Oregon State University.
2015-2016	Executive Board Member. Association of Graduate Soil Scientists
	(AGSS) at Oregon State University.
2015	Lead Organizer. The annual Western Forestry Graduate Research
	Symposium (WFGRS) at Oregon State University.
2013-Present	Member. Oregon Society of Soil Scientists (OSSS).
2012-2022	Member. Geological Society of America (GSA).
2011-2013	Member. California Forest Soil Council (CFSC).
2009-2019	Member. Crops Science Society of America (CSSA) & Agronomy
	Society of America (ASA).
2009-Present	Member. Soil Science Society of America (SSSA).

RESEARCH PROJ	<u> </u>
2018-2019	Learning Innovation Grant through Oregon State University for
	development of a 3D-printed landslide model. Co-Author with Dr. Erin
	Rooney. \$12,000
2017-2019	Effects on soil and aquatic organic matter in a southern Appalachian
	hardwood forest: A rapid assessment across the terrestrial-aquatic
	interface following the Great Smokey Mountains National Park fire of
	2016. NSF – Macrosystems Biology.
2016-2022	A Continental scale assessment of the linkages between soil organic
	matter stabilization mechanisms, controls, and vulnerability. National
	Science Foundation – Macrosystems Biology.
2013-2016	Northwest Advanced Renewables Alliance (NARA): A new vista for
	green fuels, chemicals, and environmentally preferred products (EPPs)
	USDA-AFRI.
DUDUICATIONS	
PUBLICATIONS  In Prop	A.C. Collo M. Dovimon, V.A. Hookman, I.E. Novio, M. ConClemente
In Prep	A.C. Gallo, M. Bowman, K.A. Heckman, L.E. Nave, M. SanClements,
	C.W. Swanston, B.D. Strahm, K. Lajtha, T.L. Weiglein, J.A. Hatten.
	Accounting for soil organic matter signatures across the continental US
In Duan	and down soil profiles.
In Prep	<b>A.C. Gallo</b> , J.A. Hatten, S. Holub, K. Lajtha, K. Littke. <i>Root carbon</i>
	contributions are uniform across intensive biomass removal treatments
2023	resulting in soil carbon storage resiliency.
2023	Heckman, K.A., L.E. Nave, M. Bowman, A.C. Gallo, J.A. Hatten, L.M. Matosziuk, A.R. Possinger, M. SanClements, B.D. Strahm, T.L. Weiglein,
	C. Rasmussen, C.W. Swanston. <i>Moisture-driven divergence in mineral-</i>
	associated soil carbon persistence. Proceedings of the National Academy of Science (PNAS). 2023.
2023	https://doi.org/10.1073/pnas.2210044120  J. Egan, D.M. McKnight, M.M. Bowman, M.D. SanClements, A.C. Gallo,
2023	J.A. Hatten, L.M. Matosziuk. <i>Identifying photochemical alterations of</i>
	dissolved pyrogenic organic matter using fluorescence spectroscopy.
	Aquatic Sciences.
	•
2022	https://doi.org/10.1007/s00027-022-00919-7 <b>A.C. Gallo</b> , J.A. Hatten, S. Holub, K. Lajtha, K. Littke, D. Maguire.
<i></i>	Short-term effects on soil temperature, moisture and soil respiration two
	years following intensive organic matter and compaction manipulations in
	the Oregon Cascades. Forest Ecology and Management.
	ē
2022	https://doi.org/10.1002/saj2.20485 A.R. Possinger, A.R., T.L. Weiglein, M. Bowman, A.C. Gallo, J.A.
4U44	
	Hatten, K.A. Heckman, L. Matosziuk, L.E. Nave, M. SanClements, C.W.

Swanston, B.D. Strahm. Lignin and fungal abundance modify manganese

*effects on soil organic carbon persistence*. Geoderma. <a href="https://doi.org/10.1016/j.geoderma.2022.116070">https://doi.org/10.1016/j.geoderma.2022.116070</a>

2022	Description E. V.I. Dellas W.E. Detal. A.D. Description A.C. Calla M.
2022	Rooney, E., V.L. Bailey, K.F. Patel, A.R. Possinger, <b>A.C. Gallo</b> , M. Bergmann, M. SanClements, R.A. Lybrand. <i>The impact of freeze-thaw</i>
	history on soil carbon response to experimental freeze-thaw cycles.
	Journal of Geophysical Research – Biogeosciences.
2022	https://doi.org/10.1029/2022JG006889
2022	Rooney, E., V.L. Bailey, K.F. Patel, M. Dragila, A.K. Battu, A.C. Buchko,
	A.C. Gallo, J. Hatten, A.R. Possinger, O. Qafoku, L. R. Reno, M.
	SanClements, T. Varga, R.A. Lybrand. Soil pore network response to
	freeze-thaw cycles in permafrost aggregates. Geoderma.
2021	https://doi.org/10.1016/j.geoderma.2021.115674
2021	A.R. Possinger, A.R., T.L. Weiglein, M. Bowman, A. Gallo, J.A. Hatten,
	K.A. Heckman, L. Matosziuk, L.E. Nave, M. SanClements, C.W.
	Swanston, B.D. Strahm. Climate effects on subsoil carbon loss mediated
	by soil chemistry. Environmental Science and Technology.
2021	https://doi.org/10.1021/acs.est.1c04909 Weiglein T.L. M. Boyman, A.C. Celle, L.A. Hetten, K.A. Heekman, L.
2021	Weiglein, T.L, M. Bowman, A.C. Gallo, J.A. Hatten, K.A. Heckman, L. Matosziuk, L.E. Nave, A.R. Possinger, M. SanClements,
	C.W. Swanston, B.D. Strahm. Key predictors of soil organic matter
	vulnerability to mineralization differ with depth at a continental scale.
	Biogeochemistry.
	https://doi.org/10.1007/s10533-021-00856-x
2021	L.E. Nave, M. Bowman, <b>A. Gallo</b> , J.A. Hatten, K.A. Heckman, L.
2021	Matosziuk, A.R. Possinger, M. SanClements, J. Sanderman, B.D. Strahm,
	T.L. Weiglein, C.W. Swanston. 2021. Patterns and predictors of soil
	organic carbon storage across a continental-scale network.
	Biogeochemistry.
	https://doi.org/10.1007/s10533-020-00745-9
2020 *Invited Review	Carter, T.L, L.L. Jennings, Y. Pressler, <b>A.C. Gallo</b> , A.A. Berhe, E. Marin-
2020 Invited Review	Spiotta, C. Shepard, T. Ghezzehei, K.L. Vaughan. 2020. <i>Towards diverse</i>
	representation and inclusion in soil science in the United States. Soil
	Science Society of America Journal.
	https://doi.org/10.1002/saj2.20210
2020	Heckman, K.A., L.E. Nave, M. Bowman, A. Gallo, J.A. Hatten, L.M.
	Matosziuk, A.R. Possinger, M. SanClements, B.D. Strahm, T.L. Weiglein,
	C. Rasmussen, C.W. Swanston. Divergent controls on carbon
	concentration and persistence between forests and grasslands of the
	conterminous US. Biogeochemistry.
	https://doi.org/10.1007/s10533-020-00725-z
2020	Littke, K., T. Harrington, R. Slesak, S. Holub, J. Hatten, A. Gallo, W.
	Littke, R. Harrison, E. Turnblom. Impacts of organic matter removal and
	vegetation control on nutrition and growth of Douglas-fir at three Pacific
	Northwestern Long-Term Soil Productivity sites. Forest Ecology and
	Management.
	https://doi.org/10.1016/j.foreco.2020.118176
2020	Matosziuk, L., A. Gallo, J. Hatten, K.D. Bladon, D. Ruud, M. Bowman, J.
	Egan, K. Heckman, M. SanClements, B. Strahm, T. Weiglein. 2020.

Short-term effects of recent fire on the production and translocation of pyrogenic carbon in Great Smoky Mountains National Park. Frontiers in Forest and Global Change.

https://doi.org/10.3389/ffgc.2020.00006

M. SanClements, R.H. Lee, E. Ayres, K. Goodman, M. Jones, F. Furfen, K. Thibault, R. Zulueta, J. Roberti, C. Lunch, A. Gallo. *Collaborating* 

with NEON. BioScience.

https://doi.org/10.1093/biosci/biaa005

Nave, L.E., A. Covarrubias Ornelas, P.E. Drevnick, A. Gallo, J.A.

Hatten, K.A. Heckman, L. Matosziuk, M. Sanclements, B.D. Strahm, T.J.

Veverica, T.L. Weiglein, C.W. Swanston. *Carbon-mercury* interactions in Spodosols assessed through density fractionation,

radiocarbon analysis, and soil survey information. Soil Science Society of

America Journal.

https://doi.org/10.2136/sssaj2018.06.0227

## CONFERENCE PRESENTATIONS (First Author)

2019	Roots to Regolith: Sources of organic matter across the National
	Ecological Observatory Network (NEON) soil plots. Oral Presentation.
	SSSA. San Antonio, TX.
2019	Sources of organic matter: A latitudinal assessment of carbon
	contributions down soil profiles. Oral Presentation. San Diego.
2019	The morphology of burnt dirt: A pedologic investigation of fire history
	across ecosystems. Poster Presentation. SSSA. San Diego. Best Poster in
	Student Session.
2018	Root carbon contributions are uniform across intensive biomass removal
	treatments in a western Oregon Douglas-fir forest. North American Forest
	Soils Council Meeting. Poster Presentation. Quebec City, Quebec.
2017	Root carbon contributions are uniform across intensive biomass removal
	treatments in a Western Oregon Douglas-fir forest. SSSA. Oral
	Presentation. Tampa, FL.
2016	Does root carbon from harvest trees replace mineral carbon? Oral
	Presentation. AGU. San Francisco, CA.
2016	Does Root Carbon from Harvested Trees Replace Mineral Carbon?
	Effects of LTSP Treatments in a Western Oregon Douglas-fir Forest.
	Presentation. SSSA. Phoenix, AZ.
2015	Soil Organic Matter Dynamics in an Intensively Managed Douglas-fir
	Forest. Poster Presentation. SSSA. Minneapolis, MN.
2015	Soil Organic Matter Dynamics in an Intensively Managed Douglas-fir
	Forest. Poster Presentation. Annual NARA Conference. Spokane, WA
2015	Biophysical responses in soil following intensive biomass and compaction
	treatments. Oral Presentation. WFGRS. Corvallis, OR. Best Overall
	Presentation.

2015	Immediate response mechanisms to account for sustained tree growth following intensive biomass removal on LTSP sites. Northwest Forest
	Soils Council. Oral Presentation. Hood River, Oregon.
2014	Immediate response mechanisms to account for sustained tree growth
	following intensive biomass removal on long-term soil productivity
	(LTSP) sites. Poster Presentation. SSSA. Long Beach, CA. Best Poster in
	Session.
2014	Immediate response mechanisms to account for sustained tree growth
	following intensive biomass removal on long-term soil productivity
	(LTSP) sites. Poster Presentation. WFGRS. Corvallis, OR.
2014	Biophysical response in soil following intensive biomass and compaction
	treatments. Poster Presentation. Northwest Advanced Renewables
	Alliance (NARA) Annual Meeting. Seattle, WA.

# SELECT CONFERENCE PRESENTATIONS (Co-Authored) 2019 Impact of freeze-thaw cycles on porosity in permafrost affected soils. Erin

Rooney. SSSA. Oral Presentation. San Antonio, TX.  2019 Predictors of soil organic matter vulnerability to decomposition in mineral horizons from a continental-scale sample set. Tyler Weiglein. Oral Presentation. SSSA. San Antonio, TX.  2019 Linking nominal oxidation state of carbon from extracted soil organic matter to cumulative respiration from climate change incubations at a continental scale. Maggie Bowman. Oral Presentation. SSSA. San Antonio, TX.  2019 Linking carbon and nitrogen speciation with soil organic matter persistence at the continental scale. Angela Possinger. Oral Presentation. SSSA. San Antonio, TX.  2019 Fire effects on soil organic matter in a southern Appalachian hardwood forest: movement of fire-altered organic matter in soil and aquatic systems. Jeff Hatten. Oral Presentation. SSSA. San Diego, CA.  2017 Assessing soil organic C stability at the continental scale: An analysis of soil C and radiocarbon profiles across the NEON sites. Katherine Heckman. Oral Presentation. AGU. New Orleans, LA.  2017 Forest and rangeland soil and the carbon cycle. USFS National Soils Assessment. Jeff Hatten. Boise, ID.  2016 An assessment of soil organic matter stabilization mechanisms on a continental scale. Macrosystem Biology PI Meeting. Katherine Heckman.	2019	Impact of freeze-thaw cycles on porosity in permafrost affected soils. Erin
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		continental scale. Macrosystem Biology PI Meeting. Katherine Heckman.
Poster Presentation. Washington, D.C.		Poster Presentation. Washington, D.C.
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