

WHIT C. STEWART

Associate Professor Sheep Production- Extension Sheep Specialist
University of Wyoming
Department of Animal Science
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ACADEMIC BACKGROUND

Ph. D. New Mexico State University, 2015

M.S. Oregon State University, 2010

B.S. Brigham Young University – Idaho, 2008

PROFESSIONAL EXPERIENCE

11/2024- 8/2025	Visiting Researcher (Sabbatical), Lincoln University & Beef + Lamb New Zealand (B+LNZ), Canterbury, New Zealand
6/2022- present	Associate Professor, Extension Sheep Specialist, University of Wyoming; Laramie, WY.
7/2017 - 6/2022	Assistant Professor/ Extension Sheep Specialist, University of Wyoming; Laramie WY (50% Extension, 30% Research, 15% Teaching, 5% Service)
7/2017 - 9/2019	Affiliate Graduate Faculty, Montana State University; Bozeman, MT.
6/2015 - 6/2017	Assistant Professor/ Extension Sheep Specialist Director- Montana Wool Lab Montana State University; Bozeman, MT. (77% Extension, 13% Research, 10% Service)
9/2013 - 5/2015	Graduate Assistant, New Mexico State University; Las Cruces, NM.
9/2013 - 5/2015	New Mexico State Univ. Intercollegiate Wool Judging Coach; Las Cruces, NM.
1/2012 - 8/2013	Research Associate, Texas A&M AgriLife Research; San Angelo, TX.
1/2011 - 1/2012	Area Extension Educator, University of Wyoming Extension; Gillette, WY.
1/2009 - 12/2010	Graduate Research Assistant, Oregon State University; Corvallis, OR.

APPOINTMENT EVOLUTION

Appointment	2015 MSU	2016 MSU	2017	2018	2019	2020	2021	2022	2023	2024	2025
Extension	77%	77%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Research	13%	13%	31%	28.5%	26%	16%	16%	23%	23%	23%	23%
Teaching	0%	0%	12.5%	15%	20%	30%	30%	25%	25%	25%	25%
Service	10%	10%	4%	4%	4%	4%	4%	2%	2%	2%	2%
Advising	0%	0%	2.5%	2.5%	0%	0%	0%	0%	0%	0%	0%

LANGUAGES SPOKEN

English – Fluent

Spanish – Fluent

REFEREED JOURNAL PUBLICATIONS (student authors underlined, # indicates corresponding author)

46. **Wilson, C. S., Taylor, J. B., Murphy, T. W., Lewis, R. M., W.C. Stewart, and Notter, D. R.** Development of a genetic reference flock: Benchmarking of industry and US Sheep Experiment Station Rambouillet sires. *Small Ruminant Research*. (2025). Article ID: 107580.
45. Laverell, D. M., T.W. Murphy, J.M. Smylie, A. Kersh, T.E. Engle, #**W.C. Stewart**. A comparative study on growth, feed intake, and serum vitamin and mineral concentrations in Western white-faced rams with and without limb deformities. *Translational Animal Science*.
44. **W. C. Stewart**, J. D. Scasta, C. Maierle, S. Ates, J. M. Burke, B. J. Campbell. 2025. Vegetation management utilizing sheep grazing within utility-scale solar: Agro-ecological insights and existing knowledge gaps in the United States. *Small Ruminant Research*. 107439. <https://doi.org/10.1016/j.smallrumres.2024.107439>
43. Kersh, A. J., H. M. Fraley, J. D. Scasta, J. D. Derner, P. Lima, #**W. C. Stewart**. 2024. Sheep dietary preferences in targeted grazing: Demographic, management, and weather effects in northern mixed-grass prairie. *Frontiers in Veterinary Science*. 11:1502948. <https://doi.org/10.3389/fvets.2024.1502948>
42. Scasta, J. D., C. Calkins, **W. C. Stewart**, D. I. McCracken, M. E. T. Thomson, K. Young, M. W. Dunbar, et al. 2024. Large animal training for U.S. Army Veterinary Services soldiers in Europe: An experiential and collaborative approach. *Journal of Military Learning*. October 2024:October-2024.
41. Becker, G. M., J. W. Thorne, J. M. Burke, R. M. Lewis, D. R. Notter, J. L. M. Morgan, C. S. Schauer, **W. C. Stewart**, R. R. Redden, B. M. Murdoch. 2024. Genetic diversity of United States Rambouillet, Katahdin and Dorper sheep. *Genetics Selection Evolution*. 56(1):56. <https://doi.org/10.1186/s12711-024-00791-2>
40. Wilson, C. S., J. B. Taylor, D. R. Notter, T. W. Murphy, **W. C. Stewart**, R. M. Lewis. 2024. Benchmarking performance in Targhee sheep in development of a genetic reference flock. *Translational Animal Science*. 8:txae176. <https://doi.org/10.1093/tas/txae176>
39. Scasta, J. D., **W. C. Stewart**, E. Hutchinson, K. Koepke, P. de Mello Taveres Lima, D. M. Laverell, A. Kersh, B. Stam. 2024. From Wild to Watchful: Integrating BLM Donkeys (Burros) for Sheep Ranch Protection. *Sheep and Goat Research Journal*. 39:12-19.
38. Knuth, D. O., R. M. Page, **W. C. Stewart**, G. L. Hummel, K. L. Woodruff, J. R. Whaley, A. L. Springer,

- Austin, K.J., Murphy, T.W., Bisha, B. and Cunningham-Hollinger, H.C. 2024. Milk microbiome in the first month of lactation and at weaning from ewes supplemented with zinc pre- and postpartum. *Journal of Animal Science*. skae163. <https://doi.org/10.1093/jas/skae163>
37. Julian, A. A. M., J. D. Scasta, [#]**W. C. Stewart**. 2024. Sheep winter diets parameterized with fecal DNA metabarcoding and forage sampling informs mineral nutrition management. *Rangeland Ecology and Management*. 94:168-177 <https://doi.org/10.1016/j.rama.2024.03.003>
 36. Newman C. E., C. L. Gifford, D. P. Anderson, J. D. Scasta, and [#]**W. C. Stewart**. 2024. US wool industry perceptions of digital record keeping and wool supply-chain traceability. *Applied Animal Science*. 40: 205-211. <https://doi.org/10.15232/aas.2023-02496>.
 35. Becker, G.M., K. A. Shira, J. L. Woods, S. F. Khilji, C. S. Schauer, B. T. Webb. **W. C. Stewart**, B. M. Murdoch. 2023. Angular limb deformity associated with TSPAN18, NRG# and NOVA2 in Rambouillet rams *Scientific Reports*. 13: 16059. <https://doi.org/10.1038/s41598-023-43320-6>.
 34. Becker, G.M., J. L. Woods, C. S. Schauer, **W. C. Stewart**, B. M. Murdoch. 2023 Genetic association of wool quality characteristics in U.S. Rambouillet sheep. *Frontiers in Genetics*. 13:1081175. <https://doi.org/10.3389/fgene.2022.1081175>
 33. Whaley, J. R., T. W. Murphy, C. L. Gifford, W. J. Means, J. P. Ritten, H. N. McKibben, C. M. Page, and [#]**W. C. Stewart**. 2022. Effects of harvest season on carcass characteristics of lambs in the Intermountain West. *Applied Animal Science*. 38: 393-401. <https://doi.org/10.15232/aas.2022-02322>
 32. Page, C. M., R. M. Knuth, T. W. Murphy, D. C. Rule, B. Bisha, J. B. Taylor, [#]**W. C. Stewart**. 2022. Effects of increasing dietary zinc sulfate fed to gestating ewes: II Milk somatic cell count, microbial populations, and fatty acid composition. *Applied Animal Science*. <https://doi.org/10.15232/aas.202202268>
 31. Knuth, R. M., K. L. Woodruff, G. L. Hummel, J. D. Williams, K. J. Austin, **W. C. Stewart**, H. C. Cunningham-Hollinger, [#]B. Bisha. 2022. Effects of management strategies during early lactation and weaning on etiological agents of ovine subclinical mastitis and antimicrobial susceptibility of milk derived bacterial isolates. *J. Anim. Sci.* <https://doi.org/10.1093/jas/skac171>
 30. [#]**Stewart, W. C.**, J.D. Scasta, T.W. Murphy, J. B. Taylor, A. A. M. Julian,. Invited Review: Mineral Nutrition Considerations for Extensive Sheep Production Systems. 2021 *Applied Animal Science*. <https://doi.org/10.15232/aas.2021-02143>
 29. Knuth, R. M., **W.C. Stewart**, J. B. Taylor, B. Bisha, C. J. Yoeman, M. L. Van Emon, [#]T. W. Murphy. 2021. Relationships among intramammary health indicators, udder and teat morphometric traits, and ewe productivity in extensively managed research flocks. *Journal of Animal. Science*. <https://doi.org/10.1093/jas/skab059>
 28. **Stewart, W.C.**, D. M. Scott, S. B. Howell, R. M. Kaplan, B. L. Roeder, [#]T. W. Murphy. 2020. Anthelmintic resistance in gastrointestinal nematodes and associated management factors in Intermountain West sheep flocks. *Sheep and Goat Research Journal*. 35: 30-40
 27. [#]**Stewart, W.C.**, T. W. Murphy, C. M. Page, J. B. Taylor, D. C. Rule, K. Austin, C. Pankey. 2020. Effect of Increasing dietary zinc sulfate fed to primiparous ewes: I Effects on serum metabolites, mineral transfer efficiency, and animal performance. *Applied Animal Science*. <https://doi.org/10.15232/aas.2020-02057>
 26. R. McGregor, J. G. P. Bowman, C. M. Page, A. R. Hubbard, M. Manoukian, **W. C. Stewart**, and [#]M. L. Van Emon. 2020. The effect of ensiling sugar beets on preservation characteristics, nutrient profile, and in situ disappearance. *Journal of Agricultural Studies*. <https://doi.org/10.5296/jas.v8i4.17165>
 25. [#]J. D. Scasta, T. Jorns, J. D. Derner, B. Stam, M. McClaren, Craig Calkins, **W. C. Stewart**. 2020. Technical Note: Toxic plants in sheep diets grazing extensive landscapes: Insights from Fecal DNA metabarcoding. *Livestock Science*.

24. #**Stewart W. C.**, T. R. Whitney, E. J. Scholljegerdes, J. A. Brady, D. L. Waldron, J. W. Walker, R. P. Adams, and J. M. B. Musser. 2019. Ruminal fermentation characteristics of goats selectively bred to have greater consumption of *Juniperus Pinchotii* foliage. *Animal Feed Science and Technology* <https://doi.org/10.1016/j.anifeedsci.2019.114240>
23. #Scasta J. D., K. Koepke, **W. C. Stewart**. 2019. Nutrition of dissimilar sheep breeds based on fecal NIRS predictions and vegetation responses in a targeted grazing experiment. *Applied Animal Science*. 35:441-453. DOI: <https://doi.org/10.15232/aas.2019-01844>
22. C. M. Page, M. L. Van Emon, T. W. Murphy, C. K. Larson, J. G. Berardinelli, I. R. McGregor, and #**W. C. Stewart**. 2019. Effects of zinc source and dietary concentration on zinc serum concentrations, growth performance, wool traits, and reproductive characteristics in developing rams. *Animal*. 1-9. Doi:10.1017/S1751731119002180
21. Kerth, C. R., K. R. Wall, R. K. Miller, T. R. Whitney, **W. C. Stewart**, J. A. Boles, #T. W. Murphy. 2019. Effects of plant secondary compounds found in *Juniperus spp.* on yearling Rambouillet wethers feedlot performance, carcass characteristics, adipose fatty acid composition, and sensory panel traits. *Journal of Animal Science*. DOI:10.1093/jas/skz174
20. #T. W. Murphy, **W. C. Stewart**, D. R. Notter, M. R. Mousel, G. S. Lewis, K. A. Leymaster, and J. B. Taylor. 2019. Evaluation of Rambouillet, Polypay, and Romanov–White Dorper x Rambouillet ewes mated to terminal sires in an extensive rangeland production system: Body weight and wool characteristics. *Journal of Animal Science* DOI:10.1093/jas/skz070
19. Ishaq S. I., C. M. Page, C. Yoeman, T. W. Murphy, M. L. Van Emon, #**W. C. Stewart**. 2018. Zincamino-acid supplementation alters yearling ram rumen bacterial communities, but zinc sulfate supplementation does not. *Journal of Animal Science*. DOI:10.1093/jas/sky456
18. Naumann, H. D., #**W. C. Stewart**, and T. R. Whitney. 2018. *Juniperus* species and stage of maturity affect concentration and biological activity of protein precipitable polyphenols. *Animal Feed Science and Technology*. 246:11-17. DOI: 10.1016/j.anifeedsci.2018.09.013
17. McGregor, I. R., C. M. Page, **W. C. Stewart**, and #M. L. Van Emon. 2018. Effects of sugar beets on steer backgrounding performance, sheep nutrient metabolism, and rumen fermentation characteristics. *Journal of Agricultural Studies*. 6:190-205. DOI: 10.5296/jas.v6i3.13464
16. #Murphy, T. W., **W. C. Stewart**, C. G. Smith, and J. B. Taylor. 2018. Effects of late gestation shearing on body weight gain, feed intake, and serum metabolite concentrations in Rambouillet ewes housed outdoors during winter. *Animal*. 1-6. doi:10.1017/S175173111800191X
15. Page, C. M., M. L. Van Emon, T. W. Murphy, J. G. P. Bowman, S. A. Wyffels, and #**W. C. Stewart**. 2018. Blood serum mineral element concentrations of weaned Montana ram lambs and their relationship with water quality characteristics. *Professional Animal Scientist*. 34:410-420. Doi:10.15232/pas.201801747 (Awarded Editor's Choice)
14. J. L. Glasscock, #T. R. Whitney, J. R. Roper, A. R. Holmes, S. G. Marrs, **W. C. Stewart**, and E. J. Scholljegerdes. 2018. Substituting ground woody plants for cottonseed hulls in kid goat feedlot diets: growth performance and blood serum chemistry. *Journal of Animal Science*.
13. #Walker, J. W., **W. C. Stewart**, R. Pope, S. Spear, M. Ebert, T. W. Murphy. 2018. Evaluation of mean fiber diameter measurements by FibreLux micron meter and OFDA 2000 in Texas and Intermountain West wool. *Small Ruminant Research*. 159:31-37. Doi: 10.1016/j.smallrumres.2017.12.008
12. #T. R. Whitney, J. L. Glasscock, J. P. Muir, **W. C. Stewart**, E. J. Scholljegerdes. 2017. Substituting ground woody plants for cottonseed hulls in lamb feedlot diets: growth performance, blood serum chemistry, and rumen fluid parameters. *Journal of Animal Science*. 0. Doi:10.2527/jas.2017.1649
11. **Stewart W. C.**, #T. R. Whitney, E. J. Scholljegerdes, D. M. Hallford, J. W. Walker, R. P. Adams, and H. D. Naumann. 2017. Effects of feeding ground redberry juniper (*Juniperus pinchotii*) to gestating ewes

- on pre- and postpartum performance, serum metabolites and hormones, milk fatty acid composition, and progeny pre-weaning performance. *Journal of Animal Science*. 0. doi:10.2527/jas.2016.1090
10. **Stewart, W. C.**, #T. R. Whitney, E. J. Scholljegerdes, H. D. Naumann, N. M. Cherry, J. P. Muir, B. D. Lambert, J. W. Walker, R. P. Adams, K. D. Welch, D. R. Gardner, and R. E. Estell. 2015. Effects of *Juniperus* species and stage of maturity on nutritional, in vitro digestibility and plant secondary compound characteristics. *Journal of Animal Science*. 93:4034- 4047
 9. #Whitney, T. R., C. J. Lupton, J. P. Muir, R. P. Adams, and **W. C. Stewart**. 2014. Effects of using ground redberry juniper and dried distillers grains with solubles in lamb feedlot diets: Growth, blood serum, feces, and wool characteristics. *Journal of Animal Science*. 92:1119-1132.
 8. #Hall, J. A., W. R. Vorachek, **W. C. Stewart**, M. E. Gorman, W. D. Mosher, G. J. Pirelli, G. Bobe. 2013. Selenium supplementation restores innate and humoral immune responses in footrot-affected sheep. *PLOS ONE* 8: e82572. doi:10.1371/journal.pone.0082572
 7. #Adams, R. P., C. A. Taylor, T. R. Whitney, **W. C. Stewart**, and J.P. Muir. 2013. Goats and deer do not use terpenoids to select or avoid browsing on *Juniperus pinchotti* Sudw. Trees. *Phytologia*. 95:238-245.
 6. #Hall, J. A., G. Bobe, J. K. Hunter, W. R. Vorachek, **W. C. Stewart**, J. A. Vanegas, C. T. Estill, W. D. Mosher, G. J. Pirelli. 2013. Effect of feeding selenium-fertilized alfalfa hay on performance of weaned beef calves. *PLOS One*. 8:e58188.
 5. **Stewart, W. C.**, G. Bobe, W. R. Vorachek, B. V. Stang, G. J. Pirelli, W. D. Mosher, #J. A. Hall. 2012. Organic and inorganic selenium: IV. Passive transfer of immunoglobulin from ewe to lamb. *Journal of Animal Science* 91:1791-1800
 4. **Stewart, W. C.**, G. Bobe, G. J. Pirelli, W. D. Mosher, #J. A. Hall. 2012. Organic and inorganic selenium: III. Ewe and progeny performance. *Journal of Animal Science*. 90:4536-4543.
 3. **Stewart, W. C.**, G. Bobe, W. R. Vorachek, G. J. Pirelli, W. D. Mosher, T. Nichols, R. J. Van Saun, N. E. Forsberg, #J. A. Hall. 2011. Organic and inorganic selenium: II. Transfer efficiency from ewes to lambs. *Journal of Animal Science*. 90: 577-584.
 2. #Hall, J. A., R. J. Van Saun, G. Bobe, **W. C. Stewart**, W. R. Vorachek, W. D. Mosher, T. Nichols, N. E. Forsberg, G. J. Pirelli. 2011. Organic and inorganic selenium: I. Oral Bioavailability in ewes. *Journal of Animal Science*. 90: 568-576.
 1. #Hall, J. A., A. M. Harwell, R. J. Van Saun, W. R. Vorachek, **W. C. Stewart**, M. L. Galbraith, K. J. Hooper, J. K. Hunter, W. D. Mosher, G. J. Pirelli. 2011. Agronomic biofortification with selenium: Effects on whole blood selenium and humoral immunity in beef cattle. *Animal Feed Science and Technology* 164:184–190.

FUNDING (Total Funding \$2,623,286 awarded as PI or Co-PI)

Subsample of recently funded proposals selected 52 career total

- T. Maxwell, A. Greer, D. Scobie, **W.C. Stewart**, S. Ates. 2025. Diversified Pasture for Sheep. TR Ellett Agricultural Research Trust. NZD \$110,000. 2025–2028. Lincoln University, New Zealand.
- **W.C. Stewart**. Wyoming Sheep Innovators Exchange: Wyoming to NZ. Wyoming Business Council. \$7,500. 2025.
- **W.C. Stewart**. Rancher Exchange Program with Lincoln University. UWyo Global Engagement Office. \$5,000. 2025.
- **W.C. Stewart**. Lamb-A-Year Value Discovery Program. Externally contributed funds from stakeholder support. (8/1/2022 to present)
- C. L. Gifford., **W.C. Stewart**, H. Cunningham-Hollinger. 2023. Lamb feeding strategies and meat quality assessment in a novel sheep breed. USDA-NIFA (6/1/23- 5/31/26)

Curriculum Vitae-Year 8 T&P

- Stewart, W. C., B. Lee, J. Whaley. 2022. Sheep Enterprise Benchmarking: Knowing the numbers enterprise wellness, and industry growth. American Lamb Board. (5/11/22- 9/30/25)
- **Stewart, W. C.** “Wyoming Wool Initiative”. 2020. UWyo College of Agriculture, Life Sciences, and Natural Resources. Externally contributed funds from stakeholder support. (8/1/2020 to present)
- **W.C. Stewart**, C. G. Gifford T.W. Murphy. 2021. Quantifying genetic and non-genetic factors associated with lamb growth and carcass characteristics. USDA-ARS Cooperative Agreement. (10/21/21- 9/30/2023)
- Block J., **W.C. Stewart** C. G. Gifford, T. W. Murphy. 2022. Effects of choline supplementation on reproductive outcomes in ewe lambs and growth performance and carcass characteristics of their progeny. National Sheep Industry Improvement Center. \$21,572. (Funded)
- **Stewart, W. C.**, J. Derner, J. D. Scasta, "Livestock responses to adaptive grazing management in high plains rangelands," USDA-ARS Cooperative Agreement. (9/1/21- 12/31/25)

TEACHING

Lead Instruction

<u>Year</u>	<u>Semester</u>	<u>Course</u>	<u>Credits</u>	<u>Enrollment</u>
2025	Fall	ANSC 3535 Intro to Wool Evaluation	2	13
2023	Fall	ANSC 3535 Intro to Wool Evaluation	2	13
2023	Spring	ANSC 4500 Lamb Feeding Part 2 (Lamb-A-Year)	1	3
2023	Spring	ANSC 3540 Collegiate Wool Judging	2	8
2023	Spring	ANSC 4230 Advanced Sheep Prod. & Mgmt.	3	9
2022	Fall	ANSC 3535 Intro to Wool Evaluation	2	16
2022	Fall	ANSC 4500 Lamb Feeding (Lamb-A-Year)	3	8
2022	Fall	ANSC 5880 Adv. Lamb Feeding	3	2
2021	Fall	ANSC 3535 Intro to Wool Evaluation	2	12
2021	Fall	ANSC 5880 Value Added Wool Processing	2	1
2021	Spring	ANSC 5550 Investigations in Sheep Nutr.	3	2
2021	Spring	ANSC 4230 Advanced Sheep Prod. & Mgmt.	3	26
2020	Spring	ANSC 5550 Investigations in Lamb Feeding	2	3
2020	Spring	ANSC 4230 Advanced Sheep Prod. & Mgmt.	3	29
2020	Fall	ANSC 4500 Spec. Prob Range Sheep Nutr.	2	1
2020	Fall	ANSC 3535 Intro to Wool Evaluation	2	9
2019	Fall	ANSC 3535 Intro to Wool Evaluation	2	10
2019	Summer	ANSC 4500 Spec. Prob Range Sheep Nutr	2	1
2019	Spring	ANSC 4230 Advanced Sheep Prod. & Mgmt.	3	28
2019	Spring	ANSC 5550 Investigations in Lamb Feeding	2	1
2018	Fall	ANSC 4500 Spec. Prob. Wool Evaluation	1-2	13
2018	Spring	ANSC 4230 Advanced Sheep Prod. & Mgmt.	3	25
2018	Spring	ANSC 5550 Investigations in Anim. Nutrition	2	2
2018	Spring	ANSC 5900 Practicum College Teaching	2	2
2018	Spring	HP 4975 Honors Program Research	3	1

Co-Instruction

ANSC 1009 4-H in Animal Science, Co-Instructor (Spring 2018- Present)

ANSC 1010, Intro. to Anim. Sci.-Sheep and Wool Section, Co-Instructor (Fall 2017-Present) 3 lectures 2 labs

GRADUATE & UNDERGRADUATE ADVISEMENT (Completed as Chair/Co-Chair: M.S. = 8; Ph.D.= 2)

Dylan Laverell, University of WY, M.S. Committee Chair, 2023- 2025
Aaron Kersh, University of WY, M.S. Committee Chair, 2022- 2024
Courtney Newman, University of WY, M.S. Committee Co-Chair, 2021- 2023
Hannah Fraley, University of WY, M.S. Committee Co-Chair, 2021- 2023
Alexis Julian, University of WY, M.S. Committee Chair, 2018- 2020
Jaelyn Whaley, University of WY, M.S. Committee Chair, 2018- 2020
Chad Page, University of WY, Ph.D. Committee Chair, 2017- 2020
Kelly Carpenter, University of WY, Ph.D. Committee Co-Chair, 2017- 2020
Nicole McKibben, University of WY, M.S. Committee Chair, 2018- 2020
Chad Page, M.S., Animal Science, Montana State University Committee Co-Chair, 2016-2018

Committee Member

Josephine Hernandez, M.S., Animal Science, 2023- present
Daniel Reynolds, M.S., Ecosystem Science and Management, 2023-present
Olivia Bowers, M.S, Veterinary Science, 2022- present
Ashraful Islam Bhuiya, Ph.D. Veterinary Science, 2021- present
Clara Ritchie, M.S., Animal Science, 2021- 2023
Ryan Knuth, Ph.D., Animal Science, 2019-2022
Craig Caulkins, M.S., Ecosystem Science and Management, 2019-2020
Jordan Moody, M.S., Animal Science, Michigan State University, 2019- 2020
Ryan Knuth, M.S., Animal Science, Montana State University 2017-2019
Ian McGregor, M.S., Animal Science, Montana State University 2015-2017
Ashton Hubbard, M.S., Animal Science, Montana State University 2016-2017

EXTENSION & OUTREACH

- Lead the University of Wyoming Extension Sheep Task Force, coordinating statewide efforts to align research, education, and producer needs.
- Founder of the Wyoming Wool Initiative, including the Blanket Project and producer-led market development programs.
- Developed the International Sheep Innovators Exchange Program to connect Wyoming ranchers with global leaders in sheep production.
- Organize and deliver ~30 seminars and symposia annually across Wyoming and the region, including:
 - Wyoming Ram Test Field Day
 - Wyoming Ram Sale Educational Program
 - Wyoming Sheep and Wool Festival
 - West Central States Wool Growers Meeting
 - Emerging Entrepreneurs Ranch Field Days
- Maintain a strong outreach presence through traditional popular press and digital sheep management media.
- Conduct 70–100 producer consultations and ~25 ranch visits annually, providing individualized flock health, nutrition, and management support.

AWARDS

- 2024 UWyo Extension Team Excellence Award, Sheep Task Force
- 2023 Department of the Army, Public Service Commendation Medal
- 2022 American Society of Animal Science- Western Section, Extension Award
- 2022 University of Wyoming Presidential Scholarly Achievement Award
- 2022 National Assoc. of Extension 4-H Youth Development Professionals Educational Piece
- 2022 Wyoming 4-H State Fair “Top Hand Award”
- 2021 Wyoming Agricultural Experiment Station Early Career Researcher Award
- 2019 Global Perspectives Travel Award; South American Sheep Production Systems
- 2019 International Sheep Industry Ambassador to New Zealand, American Lamb Board
- 2018 Wyoming Agricultural Experiment Station *Reflections Magazine* Article Award
- 2015 Young Scholar Award- Western Section American Society of Animal Science
- 2015 New Mexico State University Dean’s Graduate Award of Distinction
- 2014 American Sheep Industry Association Heritage Memorial Scholarship
- 2013-14 New Mexico State Univ. Joe D. Wallace Endowed Graduate Scholarship
- 2009-12 Oregon State University. Graduate Research Assistantship

INSTITUTIONAL & PROFESSIONAL SERVICE ACTIVITIES

- Search Committee Chair, Precision Livestock Management Faculty (Fall 2021- Summer 2022)
- Search Committee Member, Associate Dean/Director WY Ag. Exp Station (Fall 2020- Spring 2021)
- Search Committee Member, LREC Farm Manager (Spring 2020)
- Search Committee Member, Animal Science Department Head (December 2019- January 2021)
- Graduate Studies Committee Member. (March 2018-present)
- Intercollegiate Wool Judging Coach/Coordinator (September 2018-present)
 - o 2019 National Western Stock Show Overall Champion Team
- Search Committee Member, Meat Scientist Faculty Position. (July 2018-January 2019)
- Search Committee Member, Veterinary Pathologist Faculty Position. (December 2017- March 2018)
- Ram Test Coordinator, (July 2017-present)
- UW-LREC Sheep Operations Committee. (July 2017-present)
- Advisor UW Collegiate Wool Growers (RSO). (January 2018-present)

Professional Service and Collaborations

- Sheep Genetics USA, Education and Outreach Chair (Fall 2021- Present)
- NC214 Multi-State Research Project (Secretary)- Enhanced Efficiency of Sheep Production
- Wyoming Wool Growers Association COVID-19 Relief Sheep Working Group (April 2020- April 2022)
- USDA-ARS Meat Animal Research Center-Advisory Council Member (2019- Present)
- National Wool Judging Advisory Board (2019- Present)
- WSASAS Advising and Coordinating Committee (2017- 2019)
- WSASAS Graduate Student Paper Competition Committee member (2015- 2017)
- American Sheep Industry Association- Wool Roundtable Committee member (2015-2017)
- American Sheep Industry Association- Production, Education, and Research Council (2015- Present)
- Wyoming Ram Sale Committee- *Ex Officio* (2017- Present)

- Wyoming Ram Sale Sifting Committee- *Ex Officio* (2017- Present)
- Wyoming Wool Growers Association Executive Board- *Ex Officio* (2018- Present) • Wool Judge (State Fairs and Livestock Expositions)
- American Society of Animal Science member
- American Sheep Industry Association member

Ad-Hoc Journal Reviewer

- Sheep and Goat Research Journal, Editor (January 2019-present)
- Applied Animal Science
- Animal Reproduction Science
- Journal of Animal Science
- Animal Production Science
- Rangeland Ecology and Management
- Journal of Dairy Science
- Animals
- Animal Frontiers

Grant Proposal Reviewer/Panelist

- USDA- National Institute of Food and Agriculture
- U.S. Department of Energy
- USDA- Sustainable Agriculture Research and Education
- USDA- Western Sustainable Agriculture Research and Education
- Kuwait Foundation for the Advancement of Science
- Israel Binational Agricultural Research & Development Fund
- Texas A&M AgriLife Research

