

Jesse Alston

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EDUCATION

University of Wyoming, Laramie, WY (January 2017 – February 2021)
Ph.D. in Ecology (Statistics minor)
Graduate Certification in Teaching and Learning

Davidson College, Davidson, NC (August 2010 - May 2014)
B.A. in Environmental Studies (Economics minor)

RESEARCH AND PROFESSIONAL EXPERIENCE

2022-present **Assistant Professor**, School of Natural Resources and the Environment, University of Arizona, Tucson, AZ
2021-present **Adjunct Faculty**, Department of Zoology and Physiology, University of Wyoming, Laramie, WY
2021-2022 **Postdoctoral Researcher**, Center for Advanced Systems Understanding, Görlitz, Germany
2017-2021 **Research/Teaching Assistant**, University of Wyoming, Laramie, WY
2016 **Research Technician**, Wyoming Natural Diversity Database, Laramie, WY
2016 **Biological Technician (Wildlife)**, United States Forest Service, Leavenworth, WA
2014-2015 **Wildlife Research Technician**, Natural Resources Research Institute, Duluth, MN
2014 **Biological Technician (Wildlife)**, United States Forest Service, Leavenworth, WA
2013 **Summer Research Fellow**, Davidson Research Initiative, Davidson College, Davidson, NC

PEER-REVIEWED PUBLICATIONS (*equal contributions)

14. **Alston, J.M.***, C.H. Fleming*, R. Kays, J.P. Streicher, C.T. Downs, T. Ramesh, B. Reineking, and J.M. Calabrese. 2022. Mitigating pseudoreplication and bias in resource selection functions with autocorrelation-informed weighting. *Methods in Ecology and Evolution*, in press. Preprint: <https://doi.org/10.1101/2022.04.21.489059>
13. Wells, H.B.M., R.D. Crego, **J.M. Alston**, S.K. Ndung'u, L.M. Khasoha, C.G. Reed, A.A. Hassan, S. Kurukura, J. Ekaleti, M. Namoni, T.R. Kartzinel, T.M. Palmer, J.R. Goheen, P.S. Stewart, D.M. Kimuyu, A.A. Wolf, T.P. Young, and R.M. Pringle. 2022. Wild herbivores enhance resistance to invasion by exotic cacti in an African savanna. *Journal of Ecology*, in press.
12. Kays, R., M.V. Cove, 144 others including **J.M. Alston**, and W.J. McShea. 2022. SNAPSHOT USA 2020: a second coordinated national camera trap survey of the United States during the COVID-19 pandemic. *Ecology*, early view. <https://doi.org/10.1002/ecy.3775>
11. **Alston, J.M.**, M.E. Dillon, D.A. Keinath, I.M. Abernethy, and J.R. Goheen. Daily torpor reduces the energetic consequences of microhabitat selection in a widespread bat. 2022. *Ecology* 103: e3677. <https://doi.org/10.1002/ecy.3677>

10. **Alston, J.M.***, C.G. Reed*, L.M. Khasoha, B.R.P. Brown, G. Busienei, N. Carlson, T.C. Coverdale, M. Dudenhoeffer, M.A. Dyck, J. Ekeno, A.A. Hassan, R. Hohbein, R.P. Jakopak, B. Kimiti, S. Kurukura, P. Lokeny, A.M. Louthan, S. Musila, P.M. Musili, T. Tindall, S. Weiner, T.R. Kartzinel, T.M. Palmer, R.M. Pringle, and J.R. Goheen. 2022. Ecological consequences of large herbivore exclusion in an African savanna: 12 years of data from the UHURU experiment. *Ecology* 103: e3649. <https://doi.org/10.1002/ecy.3649>
9. Silva, I., C.H. Fleming, M.J. Noonan, **J.M. Alston**, C. Folta, W.F. Fagan, and J.M. Calabrese. 2022. Autocorrelation-informed home range estimation: a review and practical guide. *Methods in Ecology and Evolution* 13: 534-544. <https://doi.org/10.1111/2041-210X.13786>
8. Wells, H.B.M., R.D. Crego, Ø.H. Opedal, L. Malingati, **J.M. Alston**, C.G. Reed, S. Weiner, S. Kurukura, A.A. Hassan, M. Namoni, J. Ekadeli, D.M. Kimuyu, T.P. Young, T.R. Kartzinel, T.M. Palmer, R.M. Pringle, and J.R. Goheen. 2021. Experimental evidence that effects of megaherbivores on mesoherbivore space use are influenced by species' traits. *Journal of Animal Ecology* 90: 2510-2522. <https://doi.org/10.1111/1365-2656.13565>
7. Cove, M.V., R. Kays, 149 co-authors including **J.M. Alston**, and W.J. McShea. 2021. SNAPSHOT USA: the first coordinated national camera trap survey of the United States – data from 2019. *Ecology* 102: e03353. <https://doi.org/10.1002/ecy.3353>
6. **Alston, J.M.***, and J.A. Rick*. 2021. A beginner's guide to conducting reproducible research. *Bulletin of the Ecological Society of America* 102: e01801. <https://doi.org/10.1002/bes2.1801>
5. **Alston, J.M.**, M.J. Joyce, J.A. Merkle, and R.A. Moen. 2020. Temperature shapes movement and habitat selection by a heat-sensitive ungulate. *Landscape Ecology* 35: 1961-1973. <https://doi.org/10.1007/s10980-020-01072-y>
4. **Alston, J.M.** 2019. Open access principles and practices benefit conservation. *Conservation Letters* 12: e12672. <https://doi.org/10.1111/conl.12672>
3. **Alston, J.M.**, I.M. Abernethy, D.A. Keinath, and J.R. Goheen. 2019. Roost selection by male northern long-eared bats (*Myotis septentrionalis*) in a managed fire-adapted forest. *Forest Ecology and Management* 446: 251-256. <https://doi.org/10.1016/j.foreco.2019.05.034>
2. **Alston, J.M.**, B.M. Maitland, B.T. Brito, S. Esmaili, A.T. Ford, B.R. Hays, B.R. Jesmer, F.J. Molina, and J.R. Goheen. 2019. Reciprocity in restoration ecology: when and where does large carnivore reintroduction restore ecosystems? *Biological Conservation* 234: 82-89. <https://doi.org/10.1016/j.biocon.2019.03.021>
1. **Alston, J.M.**, J.E. Millard, J.A. Rick., B.W. Husby, and L.A. Mundy. 2017. Observations of notable parental behaviours of Northern Spotted Owls (*Strix occidentalis caurina*). *Canadian Field-Naturalist* 131: 225-227. <http://dx.doi.org/10.22621/cfn.v131i3.1874>

PEER-REVIEWED PUBLICATIONS (PREPRINTS) (*equal contributions)

- Alston, J.M.**, C.H. Fleming, M.J. Noonan, M.A. Tucker, I. Silva, C. Folta, T.S. Akre, A.H. Ali, J.L. Belant, D. Beyer, N. Blaum, R. Cunha de Paula, J. Dekker, J. Drescher-Lehman, N. Farwig, C. Fichtel, C. Fischer,

A.T. Ford, R. Janssen, F. Jeltsch, P. Kappeler, S. LaPoint, A.C. Markham, E.P. Medici, R. Morato, R. Nathan, K. Olson, B.D. Patterson, T. Petroelje, E. Esterci Ramalho, S. Rösner, L.G.R.O. Santos, D.G. Schabo, N. Selva, A. Sergiel, O. Spiegel, W. Ullmann, F. Zieba, T. Zwiłacz-Kozica, G. Wittemyer, W.F. Fagan, T. Müller, and J.M. Calabrese. Clarifying space use concepts in ecology: range vs. occurrence distributions. Preprint available on *bioRxiv*:

Alston, J.M., D.A. Keinath, C.K.R. Willis, C.L. Lausen, J.M. O’Keefe, J.D. Tyburec, H.G. Broders, P.R. Moosman, T.C. Carter, C.L. Chambers, E.H. Gillam, K. Geluso, T.J. Weller, D.W. Burles, and J.R. Goheen. Environmental drivers of body size in North American bats. Preprint available on *bioRxiv*: <https://doi.org/10.1101/2021.07.28.454183>

RESEARCH GRANTS (Total: \$219,752)

\$99,900	<i>Monitoring responses by species of western bats to the arrival of White Nose Syndrome at Jewel Cave National Monument (Phase 2)</i> . National Park Service. 2020. PI.
\$97,600	<i>Monitoring responses by species of western bats to the arrival of White Nose Syndrome at Jewel Cave National Monument</i> . National Park Service. 2019. PI.
\$1,500	<i>Metabolic costs of climate change for a temperate bat</i> . American Society of Mammalogists. 2018.
\$9,752	<i>Identifying and conserving roosts with ideal thermal characteristics for bats</i> . National Park Service. 2018.
\$6,000	<i>Metabolic costs of climate change for a temperate bat</i> . Berry Ecology Center, University of Wyoming. 2018.
\$4,000	<i>Metabolic costs of climate change for a temperate bat</i> . Department of Zoology and Physiology, University of Wyoming. 2018.
\$1,000	<i>Hibernation timing of bats at Jewel Cave, SD</i> . Prairie Biotic Research, Inc. 2017.

AWARDS, HONORS, FELLOWSHIPS, AND OUTREACH GRANTS (Total: \$21,953)

2020	Carlton R. Barkhurst Dissertation Fellowship, University of Wyoming (\$11,153)
2020	Dean’s Scholars Award, University of Wyoming College of Arts & Sciences (\$2,000)
2020	Albert R. and Alma Shadle Fellowship, American Society of Mammalogists (\$5,000)
2019	American Society of Mammalogists Travel Award (\$500)
2019	University of Wyoming Program in Ecology Travel Award (\$500)
2018	American Society of Mammalogists Travel Award (\$400)
2018	National Science Foundation Graduate Research Fellowship Program, Honorable Mention
2018	Society for Conservation Biology Travel Award (\$200)
2018	University of Wyoming Department of Zoology and Physiology Travel Funding (\$350)
2018	University of Wyoming Graduate School Travel Award (\$350)
2017	The Wildlife Society (Wyoming Chapter) Graduate Student Scholarship (\$1,000)
2016	Laramie Audubon Society Small Grant (\$500)

OTHER PUBLICATIONS

Torres Conkey, A.A., E. Williams, **J.M. Alston**, and S.H. Schweizer. 2022. The gender gap in TWS speaker invitations: problems and progress. *The Wildlife Professional*.

Alston, J.M. 2019. Will popular vote compact reshape western presidential politics? *Bitterroot Magazine*.

Alston, J.M. 2018. Sportsmen need to get the lead out. *High Country News*.

Alston, J.M. 2018. The power of fossil fuels is fading. *High Country News*.

Alston, J.M. 2017. Hunter-angler-biologist. *Backcountry Journal*.

Alston, J.M. 2017. The Rust Belt elevated Trump, but its electoral power is dwindling. *FiveThirtyEight*.

Alston, J.M. 2016. My secret life on the frontlines of America's conservation movement. *Narratively*.

Alston, J.M. 2016. Wolverines face recovery roadblocks. *Earth Island Journal*.

INVITED SEMINARS AND SYMPOSIA

2022 University of Arizona, School of Natural Resources and the Environment
 2022 Arizona Game and Fish Department
 2022 University of Arizona, School of Natural Resources and the Environment
 2021 American Society of Mammalogists, Student Awards Plenary Session

PROFESSIONAL PRESENTATIONS

2022 **Alston, J.M.**, C.H. Fleming, and J.M. Calabrese. American Society of Mammalogists Annual Meeting, Tucson, AZ. Oral presentation.

2022 **Alston, J.M.** Mississippi Bat Working Group Meeting, virtual. Oral presentation.

2021 **Alston, J.M.**, and J.M. Calabrese. EuroBoar Annual Meeting, virtual. Oral presentation.

2020 **Alston, J.M.** Wyoming Bat Working Group Annual Meeting, virtual. Oral presentation.

2019 **Alston, J.M.**, I.M. Abernethy, M.E. Dillon, D.A. Keinath, and J.R. Goheen. American Society of Mammalogists Annual Meeting, Washington, DC. Oral presentation.

2019 **Alston, J.M.**, I.M. Abernethy, D.A. Keinath, and J.R. Goheen. Ad hoc Black Hills Bat Conservation Meeting, Rapid City, SD. Oral presentation.

2018 **Alston, J.M.**, I.M. Abernethy, D.A. Keinath, and J.R. Goheen. Wyoming Chapter of The Wildlife Society Annual Meeting, Laramie, WY. Oral presentation.

2018 **Alston, J.M.**, I.M. Abernethy, D.A. Keinath, M.E. Dillon, and J.R. Goheen. North American Congress for Conservation Biology, Toronto, ON, CA. Oral presentation.

2018 **Alston, J.M.**, I.M. Abernethy, D.A. Keinath, M.E. Dillon, and J.R. Goheen. American Society of Mammalogists Annual Meeting, Manhattan, KS. Oral presentation.

2017 **Alston, J.M.**, I.M. Abernethy, D.A. Keinath, and J.R. Goheen. Wyoming Chapter of The Wildlife Society Annual Meeting, Jackson, WY. Poster.

- 2017 **Alston, J.M.**, D.A. Keinath, and J.R. Goheen. Western Bat Working Group Biannual Meeting, Fort Collins, CO. Oral presentation.
- 2015 **Alston, J.M.**, M.J. Joyce, and R.A. Moen Minnesota/Wisconsin Joint Wildlife Society Annual Meeting, Duluth, MN. Poster.
- 2014 **Alston, J.M.** and D.A. Martin. Association of Environmental Studies and Sciences Annual Conference, New York City, NY. Poster.

TEACHING EXPERIENCE

- 2019, 2022 **Teaching Assistant**, University of Wyoming, Kenyan Savanna Field Course (6 weeks total)
- 2021 **Co-Instructor**, The Wildlife Society, Continuous-time Movement Model Workshop (1 day)
- 2017-2020 **Teaching Assistant**, University of Wyoming, Mammalogy (ZOO 4370) (4 semesters)
- 2019 **Co-Instructor**, Tanzanian Fisheries Research Institute, Statistics with R Workshop (1 week)

PROFESSIONAL SERVICE

- 2022-present **Member**, Ad hoc Publication Contract Committee, American Society of Mammalogists
- 2020-present **Member**, African Research Fellowship Committee, American Society of Mammalogists
- 2019-present **Member**, Human Diversity Committee, American Society of Mammalogists
- 2018-present **Member**, Biodiversity Committee, American Society of Mammalogists
- 2017-present **Member**, Inclusion, Diversity, Equity and Awareness Working Group, The Wildlife Society
- 2019-2021 **Member**, Preprint Editorial Team, Proceedings of the Royal Society B: Biological Science
- 2019-2021 **Member**, Finance Committee, Program in Ecology, University of Wyoming
- 2019 **Student-Faculty Liaison**, Department of Zoology and Physiology, University of Wyoming
- 2018 **Organizer**, CV Review Panel, University of Wyoming Chapter, The Wildlife Society
- 2017 **Speaker**, Professional Development Workshop, University of Wyoming Chapter, The Wildlife Society

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- American Society of Mammalogists (life member)
- Society for Conservation Biology
- The Wildlife Society

REVIEW ACTIVITY

Journals (21 manuscripts at 17 journals)

African Journal of Ecology (1); American Naturalist (1); Canadian Field-Naturalist (3); Ecological Applications (1); Ecological Monographs (1); Ecology Letters (1); Estuarine, Coastal and Shelf Science (1); Frontiers in Ecology and Evolution (1); Integrative & Comparative Biology (1); Journal of Mammalogy (3); Journal of Thermal Biology (1); Journal of Zoology (1); Mammalian Biology (1); Methods in Ecology and Evolution (1); Scientific Reports (1); Trends in Ecology and Evolution (1); Wildlife Research (1)

Professional Societies

American Society of Mammalogists African Research Fellowship (3); American Society of Mammalogists Annual Meeting Student Presentations (1); American Society of Mammalogists Black and Indigenous Scholars Award (1); The Wildlife Society Annual Meeting Travel Grants (1)

MENTEES AND TRAINEES*Field Technicians*

2022	Daniel Batie, University of Wyoming
2022	Jahshua Sanchez, University of Wyoming
2022	Eric Fanning, University of Wyoming
2019	Lucas Olson, University of Wyoming
2019	Joshua Foust, University of Wyoming
2018	Emma Greene, University of Wyoming
2017-2018	Leandra Boodoo, University of Wyoming
2017-2018	Corrie McFarland, University of Wyoming