# **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	<b>Assistant Professor</b> , School of Natural Resources and the Environment, University of
2022-present	•
	Arizona, Tucson, AZ
2021-present	<b>Adjunct Faculty</b> , Department of Zoology and Physiology, University of Wyoming, Laramie,
·	WY
2021-2022	<b>Postdoctoral Researcher</b> , 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	<b>Summer Research Fellow,</b> Davidson Research Initiative, Davidson College, Davidson, NC

## PEER-REVIEWED PUBLICATIONS

# (\*equal contributions; graduate/postdoctoral mentee; †undergraduate mentee)

- 17. Burton, A.C., C. Beirne, K. Gaynor, C. Sun, A. Granados, 216 others including **J.M. Alston**, and R. Kays. Mammal responses to global changes in human activity vary by trophic group and landscape. Nature Ecology and Evolution, in press.
- 16. Lujan, E.†\*, R. Nielsen†\*, Z. Short†, S. Wicks†, W.N. Watetu, L.M. Khasoha, T.M. Palmer, J.R. Goheen, and **J.M. Alston**. 2023. Symbiotic acacia ants drive nesting behavior by birds in an African savanna. *Biotropica* 55:1101-1105. <a href="https://doi.org/10.1111/btp.13276">https://doi.org/10.1111/btp.13276</a>
- 15. **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. 2023. Environmental drivers of body size in North American bats. *Functional Ecology* 37:1020-1032. https://doi.org/10.1111/1365-2435.14287
- 14. **Alston, J.M.**\*, C.H. Fleming\*, R. Kays, J.P. Streicher, C.T. Downs, T. Ramesh, B. Reineking, and J.M. Calabrese. 2023. Mitigating pseudoreplication and bias in resource selection functions with autocorrelation-informed weighting. *Methods in Ecology and Evolution* 14:643-654. <a href="https://doi.org/10.1111/2041-210X.14025">https://doi.org/10.1111/2041-210X.14025</a>

- 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. Ekadeli, 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. 2023. Wild herbivores enhance resistance to invasion by exotic cacti in an African savanna. *Journal of Ecology* 111:33-44. <a href="https://doi.org/10.1111/1365-2745.14010">https://doi.org/10.1111/1365-2745.14010</a>
- 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* 103:e3775. https://doi.org/10.1002/ecv.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. <a href="https://doi.org/10.1002/ecy.3677">https://doi.org/10.1002/ecy.3677</a>
- 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. <a href="https://doi.org/10.1002/ecy.3649">https://doi.org/10.1002/ecy.3649</a>
- 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. <a href="https://doi.org/10.1111/2041-210X.13786">https://doi.org/10.1111/2041-210X.13786</a>
- 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 others 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. <a href="https://doi.org/10.1002/ecy.3353">https://doi.org/10.1002/ecy.3353</a>
- 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. <a href="https://doi.org/10.1002/bes2.1801">https://doi.org/10.1002/bes2.1801</a>
- 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. <a href="https://doi.org/10.1007/s10980-020-01072-y">https://doi.org/10.1007/s10980-020-01072-y</a>
- 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 longeared 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

- Alston, J.M., B.M. Maitland, B.T. Brito, S. Esmaeili, 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. <a href="https://doi.org/10.1016/j.biocon.2019.03.021">https://doi.org/10.1016/j.biocon.2019.03.021</a>
- 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/IN REVIEW)

# (\*equal contributions; graduate/postdoctoral mentee; †undergraduate mentee)

- 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. Zwijacz-Kozica, G. Wittemyer, W.F. Fagan, T. Müller, and J.M. Calabrese. Clarifying space use concepts in ecology: range vs. occurrence distributions. In revision. Preprint available on *bioRxiv*: <a href="https://doi.org/10.1101/2022.09.29.509951">https://doi.org/10.1101/2022.09.29.509951</a>
- Kays, R.W., M.H. Snider, G. Hess, M.V. Cove, A.J. Jensen, H. Shamon, W.J. McShea, B. Rooney, 107 others including **J.M. Alston**. Climate, food, and humans predict mammal communities in the United States. In review.
- Lizee, M., M. Shaikh, S. Mahoney, A. McKellar, J.M. Alston, J. Dunn-Mucklowe, H. Broders, J. Welch, M. Argollo de Menezes, and M. Reudink. Modeling extinction risk for unassessed bat species based on morphological, ecological, geographic, and climatic predictors. In revision.

## RESEARCH FUNDING - EXTERNAL (\$377,500 in total; \$377,500 as PI; \$287,500 for me)

\$180,000	Border wall impacts on terrestrial mammal communities. National Park Service. 2023. Pl
	(50%, with Javan Bauder).
\$99,900	Monitoring responses by species of western bats to the arrival of White Nose Syndrome at
	Jewel Cave National Monument (Phase 2). National Park Service. 2020. PI (100%).
\$97,600	Monitoring responses by species of western bats to the arrival of White Nose Syndrome at
	Jewel Cave National Monument. National Park Service. 2019. PI (100%).

## RESEARCH FUNDING - INTERNAL (Total: \$12,250)

\$12,250 Resilience internships in southeastern Arizona. Arizona Institute for Resilience. 2023.

## AWARDS, HONORS, FELLOWSHIPS, AND OUTREACH GRANTS (Total: \$23,453)

2020	Albert R. and Alma Shadle Fellowship, American Society of Mammalogists (\$5,000)
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)
2019	American Society of Mammalogists Travel Award (\$500)
2019	University of Wyoming Program in Ecology Travel Award (\$500)

2018	American Society of Mammalogists Grant-in-Aid of Research (\$1,500)
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)

# **INVITED SEMINARS AND SYMPOSIA**

2017

2017

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	<b>Alston, J.M.</b> , C.H. Fleming, and J.M. Calabrese. American Society of Mammalogists Annual Meeting, Tucson, AZ. Oral presentation.	
2022	<b>Alston, J.M.</b> Mississippi Bat Working Group Meeting, virtual. Oral presentation.	
2021	<b>Alston, J.M.</b> , and J.M. Calabrese. EuroBoar Annual Meeting, virtual. Oral presentation.	
2020	<b>Alston, J.M.</b> Wyoming Bat Working Group Annual Meeting, virtual. Oral presentation.	
2019	<b>Alston, J.M.</b> , I.M. Abernethy, M.E. Dillon, D.A. Keinath, and J.R. Goheen. American Society of Mammalogists Annual Meeting, Washington, DC. Oral presentation.	
2019	<b>Alston, J.M.</b> , I.M. Abernethy, D.A. Keinath, and J.R. Goheen. Ad hoc Black Hills Bat Conservation Meeting, Rapid City, SD. Oral presentation.	
2018	<b>Alston, J.M.</b> , I.M. Abernethy, D.A. Keinath, and J.R. Goheen. Wyoming Chapter of The Wildlife Society Annual Meeting, Laramie, WY. Oral presentation.	
2018	<b>Alston, J.M.</b> , 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	<b>Alston, J.M.</b> , I.M. Abernethy, D.A. Keinath, M.E. Dillon, and J.R. Goheen. American Society of Mammalogists Annual Meeting, Manhattan, KS. Oral presentation.	

**Alston, J.M.**, D.A. Keinath, and J.R. Goheen. Western Bat Working Group Biannual Meeting, Fort Collins, CO. Oral presentation.

Wildlife Society Annual Meeting, Jackson, WY. Poster.

Alston, J.M., I.M. Abernethy, D.A. Keinath, and J.R. Goheen. Wyoming Chapter of The

2015 **Alston, J.M.**, M.J. Joyce, and R.A. Moen Minnesota/Wisconsin Joint Wildlife Society Annual Meeting, Duluth, MN. Poster.

**Alston, J.M.** and D.A. Martin. Association of Environmental Studies and Sciences Annual Conference, New York City, NY. Poster.

## **TEACHING EXPERIENCE**

2014

Courses	
2024	<b>Instructor of Record</b> , University of Arizona, Collaborative Conservation (WFSC 596B) (1 semester)
2023-present	Instructor of Record, University of Arizona, Wildlife Ecology, Conservation, and Management (WFSC 444/544) (1 semester)
2023-present	Instructor of Record, University of Arizona, Ecology and Conservation of Animal Movement (WFSC 496B/596B) (1 semester)
2019, 2022 2017-2020	<b>Teaching Assistant</b> , University of Wyoming, Kenyan Savanna Field Course (6 weeks total) <b>Teaching Assistant</b> , University of Wyoming, Mammalogy (ZOO 4370) (4 semesters)
Workshops	
2021, 2023	<b>Co-Instructor</b> , The Wildlife Society, Continuous-time Movement Models (1 day each)
2023	<b>Instructor</b> , American Society of Mammalogists, Continuous-time Movement Models (1 day)
2019	<b>Co-Instructor</b> , Tanzanian Fisheries Research Institute, Statistics with R (1 week)

## **PROFESSIONAL SERVICE**

2023-present	Special Features Editor, Journal of Mammalogy
2023-present	Faculty Advisor, University of Arizona Fish and Wildlife Society
2023-present	<b>Member</b> , Awards Committee, School of Natural Resources and the Environment, University
	of Arizona
2023-present	Member, International Wildlife Management Working Group, The Wildlife Society
2023-present	Member, Native Peoples' Wildlife Management Working Group, The Wildlife Society
2020-present	Member, African Research Fellowship Committee, American Society of Mammalogists
	(Committee Chair since 2023)
2019-present	Member, Inclusion, Diversity, Equity, and Anti-Bias Committee, American Society of
	Mammalogists
2018-present	Member, Biodiversity Committee, American Society of Mammalogists
2017-2023	Member, Inclusion, Diversity, Equity and Awareness Working Group, The Wildlife Society
2022-2023	Member, Ad hoc Publication Contract Committee, American Society of Mammalogists
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	<b>Student Representative</b> , Department of Zoology and Physiology, University of Wyoming
2018	Organizer, CV Review Panel, University of Wyoming Chapter, The Wildlife Society
2017	<b>Speaker</b> , Professional Development Workshop, University of Wyoming Chapter, The
	Wildlife Society

## **MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

American Society of Mammalogists (life member) The Wildlife Society

## **REVIEW ACTIVITY**

Journals (27 manuscripts at 22 journals)

African Journal of Ecology (1); American Naturalist (1); Animal Behaviour (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 Animal Ecology (1); Journal of Mammalogy (3); Journal of Thermal Biology (1); Journal of Zoology (1); Landscape Ecology (1); Mammalian Biology (1); Methods in Ecology and Evolution (2); PLOS One (1); Proceedings of the Royal Society B: Biological Sciences (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**

## **Graduate Students**

2024-	Eduardo Gracia Escalante, University of Arizona (MSc) [co-advised with Javan Bauder]
2023-	Owino Otieno Raymond, University of Arizona (PhD)
2023-	Margaret Mercer, University of Arizona (MSc)
2023-	George Legrange Opiyo, Karatina University (MSc)
2022-	Celine Wandia Karoki, Kenyatta University (MSc)

## **Graduate Committees**

2024-	Brandon Mayer, University of Arizona
2023-	Alexis Rickert, University of Arizona
2022-	Ganesh Marin, University of Arizona

## Honors Capstone

2023 Paige Satterfield, University of Arizona

## Undergraduate Interns

<b>J</b>	
2023-2024	Nadira Mitchell, University of Arizona
2023-2024	Brian Sanchez-Fishback, University of Arizona
2023-2024	Nikki Reck, University of Arizona
2023	Paige Satterfield, University of Arizona

#### Research Technicians

2024	Paige Satterfield, University of Arizona
2023	Jackson Tenney, University of Wyoming
2022-2023	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