**Jesse Alston**

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**RESEARCH INTERESTS**

conservation biology, biogeography, macroecology, global change ecology, meteorology, scientific communication, open access, diversity in science

**EDUCATION**

**University of Wyoming**, Laramie, WY (Expected December 2020)

**Ph.D. in Ecology (Statistics minor)**

**Davidson College**, Davidson, NC (May 2014)

**B.A. in Environmental Studies (Economics minor)**

**RESEARCH AND PROFESSIONAL EXPERIENCE**

**Research/Teaching Assistant,** University of Wyoming, Laramie, WY (2017-present)

**Research Technician**, Wyoming Natural Diversity Database, Laramie, WY (2016)

**Biological Technician (Wildlife),** United States Forest Service, Leavenworth, WA (2016)

**Wildlife Research Technician,** Natural Resources Research Institute, Duluth, MN (2014-2015)

**Biological Technician (Wildlife),** United States Forest Service, Leavenworth, WA (2014)

**Summer Research Fellow,** Davidson Research Initiative, Davidson College, Davidson, NC (2013)

**ACADEMIC PUBLICATIONS**

**Alston, J.M.**, I.M. Abernethy, D.A. Keinath, and J.R. Goheen. Roost selection by male northern long-eared bats (*Myotis septentrionalis*) in a managed fire-adapted forest. *Forest Ecology and Management* 446: 251-256.

**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. Reciprocity in restoration ecology: when and where does large carnivore reintroduction restore ecosystems? *Biological Conservation* 234: 82-89.

**Alston, J.M.**, J. E. Millard, J.A. Rick., et al. 2017. Observations of notable parental behaviours of Northern Spotted Owls (*Strix occidentalis caurina*). *Canadian Field-Naturalist* 131(3): 225-227.

**ACADEMIC PUBLICATIONS (IN REVIEW/REVISION)**

**Alston, J.M.** Open access principles and practices benefit conservation. In review at *Conservation Letters*. Pre-print available on *EcoEvoRxiv*.

**ACADEMIC PUBLICATIONS (IN PREPARATION)**

**Alston, J.M.**, M.J. Joyce, J.A. Merkle, and R.A. Moen. Heat and habitat interact to influence an ungulate’s movement behaviors at its southern range boundary. In prep for submission to *Ecological Applications*.

**Alston, J.M.**, M.E. Dillon, D.A. Keinath, I.M. Abernethy, and J.R. Goheen. Behavioural thermoregulation via roost selection by a temperate bat. In prep for submission to *Journal of Animal Ecology*.

**RESEARCH GRANTS (Total: $119,852)**

$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.

$1,500 *Metabolic Costs of Climate Change for a Temperate Bat*. American Society of Mammalogists. 2018.

$9,752 *Identifying and Conserving Roosts with Ideal Thermal Characteristics for Bats*. National Park Service. 2018.

$6,000 *Metabolic Costs of Climate Change for a Temperate Bat*. Berry Ecology Center, University of Wyoming. 2018.

$4,000 *Metabolic Costs of Climate Change for a Temperate Bat*. L. Floyd Clarke Research Award, Department of Zoology and Physiology, University of Wyoming. 2018.

$1,000 *Hibernation Timing of Bats at Jewel Cave, SD*. Prairie Biotic Research, Inc. 2017.

**AWARDS, HONORS, FELLOWSHIPS, AND OUTREACH GRANTS**

2019 American Society of Mammalogists Travel Award ($500)

2019 University of Wyoming Program in Ecology Travel Award ($500)

2018 University of Wyoming Graduate School Travel Award ($350)

2018 Society for Conservation Biology Travel Award ($200)

2018 University of Wyoming Department of Zoology and Physiology Travel Funding ($350)

2018 American Society of Mammalogists Travel Award ($400)

2018 NSF Graduate Research Fellowship Program, Honorable Mention

2017 The Wildlife Society (Wyoming Chapter) Graduate Student Scholarship ($1,000)

2016 Laramie Audubon Society Small Grant ($500)

2013 Davidson Summer Research Fellowship, Davidson Research Initiative ($7,000)

2010-2013 Pioneer Football League Academic Honor Roll

2010-2011 National Merit Scholarship ($2,500)

**POPULAR MEDIA ARTICLES**

**Alston, J.M.** (April 2019). Will Popular Vote Compact Reshape Western Presidential Politics? *Bitterroot Magazine*.

**Alston, J.M.** (July 2018). Sportsmen Need to Get the Lead Out. *High Country News*.

**Alston, J.M.** (January 2018). The Power of Fossil Fuels is Fading. *High Country News*.

**Alston, J.M.** (April 2017). Hunter-Angler-Biologist. *Backcountry Journal*.

**Alston, J.M.** (February 2017). The Rust Belt Elevated Trump, But Its Electoral Power Is Dwindling. *FiveThirtyEight.*

**Alston, J.M.** (December 2016). My Secret Life on the Frontlines of America’s Conservation Movement. *Narratively*.

**Alston, J.M.** (November 2016). Wolverines Face Recovery Roadblocks. *Earth Island Journal*.

**PRESENTATIONS**

**Alston, J.M.**, I.M. Abernethy, M.E. Dillon, D.A. Keinath, and J.R. Goheen. (June 2019). Behavioral thermoregulation via roost selection by a temperate bat. American Society of Mammalogists Annual Meeting, Washington, DC. Oral presentation.

Molina, F.J., **J.M. Alston**, B.M. Maitland, B.T. Brito, S. Esmaeili, A.T. Ford, B.R. Hays, B.R. Jesmer, and J.R. Goheen. (June 2019). Reciprocity in restoration ecology: when and where does large carnivore reintroduction restore ecosystems? American Society of Mammalogists Annual Meeting, Washington, DC. Poster.

Karevold, H., **J.M. Alston**, and E. Gillam. (June 2019). Correlating foraging strategies and ear morphology in bat species of the northern Great Plains. American Society of Mammalogists Annual Meeting, Washington, DC. Poster.

**Alston, J.M.**, I.M. Abernethy, D.A. Keinath, and J.R. Goheen. (March 2019). Bat research at Jewel Cave National Monument. Ad hoc Black Hills Bat Management Meeting, Rapid City, SD. Oral presentation.

**Alston, J.M.**, I.M. Abernethy, D.A. Keinath, and J.R. Goheen. (November 2018). Roost selection by northern long-eared myotis (*Myotis septentrionalis*) in a ponderosa pine forest. Wyoming Chapter of The Wildlife Society Annual Meeting, Laramie, WY. Oral presentation.

**Alston, J.M.,** I.M. Abernethy, D.A. Keinath, M.E. Dillon, and J.R. Goheen. (July 2018). *Metabolic Costs of Climate Change in a Temperate Bat*. North American Congress for Conservation Biology, Toronto, ON, CA. Oral presentation.

**Alston, J.M.,** I.M. Abernethy, D.A. Keinath, M.E. Dillon, and J.R. Goheen. (June 2018). *Metabolic Costs of Climate Change in a Temperate Bat*. American Society of Mammalogists Annual Meeting, Manhattan, KS. Oral presentation.

**Alston, J.M.,** I.M. Abernethy, D.A. Keinath, and J.R. Goheen. (December 2017). *Thermoregulatory behavior of fringed myotis (Myotis thysanodes) and its implications for conservation.* Wyoming Chapter of The Wildlife Society Annual Meeting, Jackson, WY. Poster.

**Alston, J.M.**, D.A. Keinath, and J.R. Goheen. (April 2017). *Tree-roosting bats in the western United States: what we know and what’s next*. Western Bat Working Group Biannual Meeting, Fort Collins, CO. Oral presentation.

Reno, C.J., **J.M. Alston**, S.K Windels, and R.A. Moen. (April 2015). *Moose use of aquatic resources for cooling and sodium needs*. 49th North American Moose Conference, Middle Park, CO. Poster.

**Alston, J.M.**, M.J. Joyce, and R.A. Moen (February 2015). *Lidar analysis of snowshoe hare habitat in northeastern Minnesota*. Minnesota/Wisconsin Wildlife Society Annual Meeting, Duluth, MN. Poster.

**Alston, J.M.** and D.A. Martin (June 2014). *Bioeconomic modeling of the Atlantic menhaden fishery*. Association of Environmental Studies and Sciences Annual Conference, New York City, NY. Poster.

**TEACHING EXPERIENCE**

2019 **Teaching Assistant**, University of Wyoming, Mammalogy (ZOO 4370), Fall Semester

2019 **Co-Instructor**, Tanzanian Fisheries Research Institute, Statistics with R Workshop

2019 **Teaching Assistant**, University of Wyoming, Ecology of African Savannas Field Course

 --Guest lecture (May 16, 2019)

2018 **Teaching Assistant**, University of Wyoming, Mammalogy (ZOO 4370), Fall Semester

 --Guest lectures (September 26, 2018; December 12, 2018)

2017 **Teaching Assistant**, University of Wyoming, Mammalogy (ZOO 4370), Fall Semester

**TRAINING/WORKSHOPS**

2019 **Data Science & Machine Learning Workshop**, University of Wyoming, Laramie, WY

2019 **R Spatial Data Science Short Course**, University of Wyoming, Laramie, WY

2019 **Mammal Specimen Preparation Workshop**, University of Wyoming, Laramie, WY

2018 **Ecological Sampling & Study Design Workshop**, WEST, Inc., Laramie, WY

2017 **Quantitative Analysis of Field Data Workshop**, University of Wyoming, Laramie, WY

2017 **R Spatial Ecology Bootcamp**, University of Wyoming, Laramie, WY

**PROFESSIONAL SERVICE**

2019-present **Member**, Preprint Editorial Team, Proceedings of the Royal Society B: Biological Science

2019-present **Member**, Human Diversity Committee, American Society of Mammalogists

2019-present **Member**, Finance Committee, Program in Ecology, University of Wyoming

2018-present **Member**, Biodiversity Committee, American Society of Mammalogists

2017-present **Task Force Member**, Ethnic & Gender Diversity Working Group, The Wildlife Society

2019 **Meeting Ally**, Annual Meeting, American Society of Mammalogists

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

**OUTREACH ACTIVITIES**

2017 ***Field Surveys* Podcast**, University of Wyoming Biodiversity Institute, Laramie, WY

2017 ***Field Surveys Podcast* Presentation**, Laramie Audubon Society, Laramie, WY

2017 ***Bats of Jewel Cave* Field Trip**, Jewel Cave National Monument, Custer, SD

2017 ***Ask an Animal Expert* Activity**, Bird Rock Elementary School, San Diego, CA

2014 ***Hawk Festival* Event**, Hawkwatch International/US Forest Service, Pateros, WA

2014 ***Reptile Day* Event**, Davidson College, Davidson, NC

**VOLUNTEER EXPERIENCE**

2019 **Volunteer Surveyor**, Moose Day, Biodiversity Institute, Laramie, WY

2018 **Volunteer Staff**, North American Congress for Conservation Biology, Toronto, ON

2017 **Volunteer Surveyor**, Teton Raptor Center, Wilson, WY

2016 **Volunteer Observer,** Hawk Watch International, Pateros, WA

2016 **Trainee,** Wyoming Natural Diversity Database, Laramie, WY

2016 **Teacher/Tutor,** Nepal Orphans Home, Kathmandu, Nepal

2015 **Volunteer Surveyor,** Hawk Ridge Bird Observatory, Duluth, MN

2014 **Volunteer Observer,** Hawk Watch International, Pateros, WA

**MEMBERSHIPS IN PROFESSIONAL SOCIETIES**

American Society of Mammalogists (2016-present)

Society for Conservation Biology (2016-present)

Western Bat Working Group (2016-present)

The Wildlife Society (2015-present)

**MANUSCRIPT REVIEWS**

Trends in Ecology and Evolution (1)

Ecology Letters (1)

Ecological Monographs (1)

Journal of Mammalogy (1)

Canadian Field-Naturalist (1)

**MENTEES AND TRAINEES**

*Field Technicians*

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