

Taylor N. LaSharr

Wyoming Cooperative Fish and Wildlife Research Unit
 Dept. of Zoology and Physiology, University of Wyoming
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EDUCATION

- Expected May 2023 **PhD, Program in Ecology (PiE)**, University of Wyoming
 Wyoming Cooperative Fish and Wildlife Research Unit
 Haub School of Environment and Natural Resources
Dissertation: Making a living in a harsh world: how does life-history, nutrition, and environment influence the behavior and survival of a long-lived, iteroparous mammal?
Advisor: Dr. Kevin Monteith
 GPA: 4.0/4.0
- May 2018 **MSc, Zoology and Physiology**, University of Wyoming
 Wyoming Cooperative Fish and Wildlife Research Unit
Thesis: Role of harvest, demography, and changing environments on horn size of mountain sheep
Advisor: Dr. Kevin Monteith
 GPA: 4.0/4.0
- May 2015 **BSc, Natural Resources**, University of Arizona
 School of Natural Resource and the Environment
 Technical focus Conservation Biology; minor Chemistry
 GPA: 3.5/4.0, Graduated *Cum Laude*

PROFESSIONAL EXPERIENCE

- May 2018 – present **University of Wyoming**, Wyoming Cooperative Fish and Wildlife Research Unit
 Graduate Research Assistant, advisor: Dr. Kevin Monteith
- Working in collaboration with research scientists and biologists in western Wyoming on the Wyoming Range Mule Deer Project to investigate factors influencing recovery of mule deer following population crashes. Duties include: manage large, complex datasets; supervise technicians and volunteers; capture and collar neonate mule deer; capture and collar adult mule deer.
- Aug 2015 – May 2018 **University of Wyoming**, Wyoming Cooperative Fish and Wildlife Research Unit
 Graduate Research Assistant, advisor: Dr. Kevin Monteith
- Worked in collaboration with state biologists and managers throughout North America to synthesize the first long-term, broad-scale dataset of state harvest records of mountain sheep from North America to assess changes in horn size through time because of harvest and environmental factors.
- May 2015 – Aug 2015 **Wyoming Cooperative Fish and Wildlife Research Unit**
 Field Technician, Wyoming Range Mule Deer Project: Fawn Survival Study
- Utilized radio telemetry to locate adult female mule deer and Vaginal Implant Transmitters (VITs); searched for neonates for up to 3 hours; took morphometric measurements, blood samples, and collared fawns; performed

vegetation line-point transects – identified grasses, forbs and shrubs native to western Wyoming; investigated fawn mortalities and kill sites to determine potential cause of death.

- Jan 2015 – May 2015 **University of Arizona**, Dr. John Koprowski's Conservation Research Lab
Field Technician
- Assisted on an antelope jackrabbit home range and movement project; utilized radio-telemetry to find radio-collared individuals and triangulate locations to determine home ranges; assisted with catching, handling and processing antelope jackrabbits.
- Jan 2013 – May 2015 **University of Arizona**, Dr. Alex Badyaev's Ecology & Evolutionary Biology Lab
Lab Technician
- Assisted in measuring morphometric characteristics and releasing house finches; stained and prepared wet mount microscope slides and measured sperm samples taken from *Thermonectus marmoratus*; assisted with field collection of *T. marmoratus* and *Dineutus spp.*; reared *T. marmoratus* and *Daphnia* specimens in the lab.
- Sep 2012 – May 2015 **University of Arizona**, Dr. Renee Duckworth's Ecology & Evolutionary Biology Lab
Lab and Field Technician
- Assisted with a long-term study site of both western and mountain bluebirds in Western Montana. Banded, measured and bled nestlings; recorded parental behavior and incubation in person and with video analysis; assisted with adult captures with box traps; assisted with aggression trials using tree swallows; DNA extractions, PCR, gel electrophoresis analysis.
- Oct 2012 – Aug 2013 **University of Arizona**, Dr. Peter Troch's Hydrology and Water Resource Lab
Lab Technician
- Worked on the Critical Zone Observatory (CZO) project and the Landscape Evolution Observatory (LEO) project; operated the Los Gatos Research Liquid Water Isotope Analyzer: ran water quality isotope samples; analyzed O^{18}/O^{16} and $2H/1H$ isotope ratios for stream, soil water, and precipitation samples; general laboratory tasks including acid washing, bottle combustion, and wet chemistry measurements (pH, Electrical Conductivity, dilutions).

FELLOWSHIPS & AWARDS

- Sept 2021 – present **Haub School of the Environment and Natural Resources**
Muley Fanatic Foundation Fellow
- Awarded to a single graduate student in the Haub School of Environment and Natural Resources to support research on mule deer in Wyoming. Fellowship lasts for the entirety of their graduate program.
- May 2014 – May 2015 **University of Arizona**
Undergraduate Biology Research Program
- Worked independently on a research project studying interspecific aggression and life history tradeoffs between two closely related avian species. Presented results at annual UBRP conference.
 - Project Advisor: Dr. Renee Duckworth

PEER – REVIEWED PUBLICATIONS

- Smiley, R. A., **T. N. LaSharr**, H. N. Abernathy, Y. Shakeri, R. L. Levine, S. Rankins, R. Jakopak, R. Rafferty, J. Kolek, S. Dwinnell, B. Wagler, T. Robinson, J. Randall, R. C. Kaiser, M. Thonhoff, B. Scurlock, T. Fiesler, J. Short, D. McWhirter, D. Brimeyer, G. L. Fralick, and K. L. Monteith. 2022. *Biomarkers of animal nutrition: from seasonal to lifetime indicators of environmental conditions*. **Accepted**. Invited Paper: Life Special Issue.
- Martin, A. M., J. T. Hogg, K. R. Manlove, **T. N. LaSharr**, J. Shannon, D. McWhirter, H. Miyasaki, K. L. Monteith, and P. C. Cross. 2022. *Disease and secondary sexual traits: impacts of pneumonia on horn size of bighorn sheep*. Journal of Wildlife Management.
- Aikens, E. O., S. P. H. Dwinnell, **T. N. LaSharr**, R. P. Jakopak, G. Fralick, J. Randall, R. Kaiser, M. Thonhoff, M. J. Kauffman, and K. L. Monteith. 2021. *Migratory tactic and maternal resource allocation shape timing of reproduction in a large herbivore*. Ecology.
- Kauffman, K. M., T. Cornish, K. Monteith, B. Schumaker, **T. N. LaSharr**, K. Huggler, and M. Miller. 2021. *Detection of deer adenovirus A DNA in dam and offspring pairs of mule deer and elk*. Journal of Wildlife Disease.
- Ortega, A. C., S. P. H. Dwinnell, **T. N. LaSharr**, R. Jakopak, K. S. Huggler, K. Denryter, M. M. Hayes, E. O. Aikens, T. Verzuh, B. Lamont, A. May, and K. L. Monteith. 2020. *Effectiveness of partial sedation to reduce stress in captured mule deer*. Journal of Wildlife Management.
- Bowyer, R. T., K. M. Stewart, V. C. Bleich, J. C. Whiting, K. L. Monteith, M. E. Blum, and **T. N. LaSharr**. 2020. *Metrics of harvest for ungulates: misconceptions, lurking variables, and prudent management*. Alces.
- Jakopak, R., **T. LaSharr**, S. P. H. Dwinnell, G. Fralick, and K. L. Monteith. 2019. *Rapid acquisition of memory in a complex landscape by a mule deer*. Ecology. 100:12.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, J. Shannon, R. Klaver, C. E. Brewer, M. Cox, A. A. Holland, C. P. Lehman, J. D. Muir, B. Sterling, and K. Monteith. 2019. *Horn size and mountain sheep: do current harvest practices affect horn growth?* Evolutionary Applications. 12: 1823 – 1836.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, J. Shannon, E. Rominger, C. Lehman, M. Cox, and K. Monteith. 2019. *Biological relevance of antler, horn, and pronghorn size in records programs*. Journal of Mammalogy. 100: 1447-1458.
- Monteith, K., R. Long, T. Stephenson, V. Bleich, R. T. Bowyer, and **T. LaSharr**. 2018. *Horn size and nutrition in mountain sheep: Can ewe handle the truth?* Journal of Wildlife Management. 82: 67 – 84.
- Walker, R., B. Maitland, **T. LaSharr**, M. Rosling, and M. Ben-David. 2018. *Fate of juvenile salmonids stranded in off channel flood ponds*. Aquatic Sciences. 80: 10.

PEER – REVIEWED PUBLICATIONS (in review, revision, or final stages of preparation)

- Blum, M. E., **T. N. LaSharr**, K. M. Stewart, J. T. Hogg, B. L. Wagler, R. A. Smiley, K. S. Huggler, R. P. Jakopak, M. Brunet, R. Levine, S. P. H. Dwinnell, B. Regan, M. Cox, B. Wakeling, G. L. Fralick, B. Scurlock, R. Kaiser, M. Thonhoff, P. W. Burke, A. Courtemanch, D. Lutz, and K. L. Monteith. *Capture-induced mortality in neonate ungulates: role of handling protocols?* **In revision**. Journal of Wildlife Management.

- Smiley, R., B. Wagler, **T. N. LaSharr**, K. Denryter, T. R. Stephenson, and K. L. Monteith. *Regulation of body reserves is state- and context-dependent in a large herbivore*. **In revision**. Ecosphere.
- Jakopak, R., H. Sawyer, **T. N. LaSharr**, J. Randall, G. Fralick, S. P. H. Dwinnell, and K. L. Monteith. *Diel timing of migration is not plastic in a migratory ungulate*. **In review**. Behavioral Ecology.
- Tucker, M. A., Tempe S. F. Adams, ... **T. N. LaSharr** ..., T. Mueller. *Changes in human presence during COVID-19 lockdowns alter the spatial behavior of terrestrial mammals*. **In review**. Intended Outlet: Science.
- Dwinnell, S. P. H., **T. N. LaSharr**, B. Wagler, K. S. Huggler, R. P. Jakopak, M. M. Hayes, H. Sawyer, and K. L. Monteith. *Evaluating risks associated with animal capture and handling for individual based longitudinal studies*. **In prep**. Intended outlet: Journal of Wildlife Management.
- Ortega, A. O., **T. N. LaSharr**, M. J. Kauffman, and K. L. Monteith. *Is energy expenditure consistent across winter for a large mammal?* **In prep**. Intended outlet: Scientific Naturalist.
- T. N. LaSharr**, R. P. Jakopak, S. P. H. Dwinnell, G. Fralick, and K. L. Monteith. *Maternal effects and the legacy of harsh winters for wild animals*. **In prep**. Intended outlet: Scientific Naturalist.

BOOK CHAPTERS

- Monteith, K. L., **T. N. LaSharr**, C. J. Bishop, T. R. Stephenson, K. M. Stewart, and L. A. Shipley. Physiology and Nutrition. in Krausman, P. and Heffelfinger J. (eds). *Mule and Black-tailed deer of North America*.

GRANTS

- K. L. Monteith, and **T. N. LaSharr**. 2020. Ecology of male deer in the Wyoming Range. Bowhunters of Wyoming. \$2,000.
- K. L. Monteith, and **T. N. LaSharr**. 2020. Ecology of male deer in the Wyoming Range. Wyoming Game and Fish Commissioners license. \$14,000.
- K. L. Monteith, and **T. N. LaSharr**. 2020. Ecology of male deer in the Wyoming Range. Bowhunters of Wyoming. \$5,000.
- K. L. Monteith, and **T. N. LaSharr**. 2020. Effects of harvest intensity on size and quality of pronghorn. Wyoming Game and Fish Commission. \$93,000.
- K. L. Monteith, and **T. N. LaSharr**. 2019. The Wyoming Range Mule Deer Project: carryover effects and factors limiting recovery from a severe winter. Pope and Young Club. \$7,500.
- K. L. Monteith, and **T. N. LaSharr**. 2019. Ecology of male mule deer in the Wyoming Range. Pope and Young Club. \$7,500.
- K. L. Monteith, and **T. N. LaSharr**. 2019. Ecology of male mule deer in the Wyoming Range. Upper Green Chapter of Muley Fanatic Foundation. \$4,000.
- K. L. Monteith, and **T. N. LaSharr**. 2019. Effects of harvest intensity on size and quality of pronghorn. Wyoming Governors Big Game License Coalition. \$7,500.
- K. L. Monteith, and **T. N. LaSharr**. 2019. Ecology of male mule deer in the Wyoming Range. Wyoming

Governors Big Game License Coalition. \$5,000.

K. L. Monteith, and **T. N. LaSharr**. 2018. Ecology of male mule deer in the Wyoming Range: movement, growth, and survival. 10 Country Chapter of the Muley Fanatic Foundation. \$5,000.

OTHER PUBLICATIONS

LaSharr, Tayler N. 2018. *Role of harvest, demography, and the environment on horn size of mountain sheep*. Thesis. University of Wyoming, Laramie, WY, USA.

POPULAR WRITING

LaSharr, Tayler. 2020. [*Does Hunting Result in the Evolution of Smaller Antlers and Horns?*](#) MeatEater.

LaSharr, Tayler and Jim Heffelfinger. 2020. *Records Programs: Science Informing Conservation. Fair Chase Magazine*. Fall 2020 Issue.

Jakopak, Rhiannon and **Tayler LaSharr**. 2019. [*Hunting and mountain sheep: Do current harvest practices affect horn growth?*](#) Research Brief. Haub School of Environment and Natural Resources.

Monteith, Kevin L. and **Tayler LaSharr**. [*Horn size and nutrition in mountain sheep: Can ewe handle the truth?*](#) Wyoming Wild Sheep Rampage: Spring 2018 Issue.

LaSharr, Tayler and Kevin L. Monteith. [*Understanding the Effects of Hunting on Horn Size*](#). Wyoming Wild Sheep Rampage: Spring 2018 Issue.

LaSharr, Tayler, Kevin L. Monteith, and Vernon C. Bleich. [*Progress toward evaluating the role of harvest, demography, and changing environments on horn size of mountain sheep: Part III*](#). California Wild Sheep: Spring 2018 Issue: 29-30.

Jakopak, Rhiannon, **Tayler LaSharr**, and Benjamin Wise. *Conserving Wyoming Wildlife's Future through HB0039*. Casper Star Tribune Letter to the Editor. March 2018.

LaSharr, Tayler, Kevin L. Monteith, and Vernon C. Bleich. [*Progress toward evaluating the role of harvest, demography, and changing environments on horn size of mountain sheep: Part II*](#). California Wild Sheep: Winter 2017 Issue: 11-12.

LaSharr, Tayler, Kevin L. Monteith, and Vernon C. Bleich. [*Progress toward evaluating the role of harvest, demography, and changing environments on horn size of mountain sheep*](#). California Wild Sheep: Fall 2017 Issue: 18-19.

INVITED LECTURES

February 2021 *Hunting, Fishing, and Biodiversity*. Invited panelist for webinar at the University of Wyoming's Biodiversity Institute focused on how biodiversity benefits hunters and anglers. Laramie, WY.

February 2021 *Hunting and horn size—how does harvest influence bighorn sheep?* Invited speaker for ESF student chapter of TWS. Syracuse, New York.

- June 2018 *Role of harvest, demography, and changing environments on horn size of mountain sheep.* Invited speaker at the Wild Sheep Foundation Chapter and Affiliate Meeting. Jackson, WY.
- March 2018 *Horn size and nutrition in mountain sheep: can ewe handle the truth?* Invited speaker at the BLM brownbag seminar series. Rawlins, WY.
- April 2017 *Role of harvest, demography, and changing environments on horn size of mountain sheep.* Invited speaker at the Wyoming Game and Fish Department Coordinator Meeting. Laramie, WY.

PROFESSIONAL PRESENTATIONS

- LaSharr, T.** *Plasticity in energy expenditure: costs of reproduction in a stochastic environment* Oral Presentation. Program in Ecology Symposium. Laramie, Wyoming. Feb 2022.
- LaSharr, T.** *Making a living in a harsh world: how does life-history, nutrition, and environment influence the behavior and survival of a long-lived, iteroparous mammal?* Oral Presentation – Dissertation Proposal Defense. Laramie, Wyoming. November 2020.
- LaSharr, T., S. P. H. Dwinnell, R. Jakopak, G. Fralick, R. Kaiser, M. Thonhoff, J. Randall, and K. Monteith.** *Surviving a Harsh Winter: Do Movement Behavior, Life History, and Nutrition Interact to Influence Survival?* Oral presentation. Wyoming Chapter Conference of The Wildlife Society. Sheridan, Wyoming. November 2019. **Best Student Oral Presentation.**
- LaSharr, T., S. P. H. Dwinnell, G. Fralick, R. Kaiser, M. Thonhoff, J. Randall, and K. Monteith.** *Surviving a Harsh Winter: Do Movement Behavior, Life History, and Nutrition Interact to Influence Survival?* Oral presentation. National Conference of The Wildlife Society. Reno, Nevada. October 2019.
- LaSharr, T., S. P. H. Dwinnell, G. Fralick, R. Kaiser, M. Thonhoff, J. Randall, and K. Monteith.** *The lasting effects of winter: carryover effects of severe winter condition on reproduction of mule deer.* Poster presentation. Wyoming Chapter Conference of The Wildlife Society. Laramie, Wyoming. November 2018.
- LaSharr, T., R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, R. Klaver, J. Shannon and K. Monteith.** *Role of harvest and environmental factors on horn size of mountain sheep.* Oral presentation. World Mountain Ungulate Conference. Bozeman, Montana. September 2019.
- LaSharr, T., R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, R. Klaver, J. Shannon and K. Monteith.** *Role of harvest and environmental factors on horn size of mountain sheep.* Oral presentation. National Conference of The Wildlife Society. Cleveland, Ohio. October 2018.
- LaSharr, T., S. P. H. Dwinnell, G. Fralick, R. Kaiser, M. Thonhoff, J. Randall, and K. Monteith.** *The lasting effects of winter: carryover effects of severe winter condition on reproduction of mule deer.* International Deer Biology Congress. Estes Park, Colorado. August 2018.
- LaSharr, T., R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, R. Klaver, J. Shannon and K. Monteith.** *Role of harvest and environmental factors on horn size of mountain sheep.* 21st Biennial Northern Wild Sheep and Goat Council Symposium. Whitefish, Montana. May 2018.
- LaSharr, T.** *Role of harvest, demography, and the environment on horn size of mountain sheep.* Oral presentation. Thesis Defense. Laramie, WY. April 2018.

- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, R. Klaver, J. Shannon and K. Monteith. *Role of harvest and the environmental on horn size of mountain sheep*. Ignite style oral presentation. USGS and Wyoming Game and Fish Cooperator Meeting; Annual Meeting. Laramie, Wyoming. April 2018.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, J. Shannon and K. Monteith. *Role of harvest and environmental factors on horn size of mountain sheep*. Oral presentation. Wyoming Chapter Conference of The Wildlife Society. Jackson, Wyoming. December 2017.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, J. Shannon and K. Monteith. *Role of harvest and environmental factors on horn size of mountain sheep*. Oral presentation. National Conference of The Wildlife Society. Albuquerque, New Mexico. September 2017.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, J. Shannon and K. Monteith. *Evaluating the role of harvest on weapon size of mountain sheep*. Oral presentation. Desert Bighorn Council Meeting. St. George, Utah. April 2017.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman, J. Shannon and K. Monteith. *Role of harvest, demography, and changing environments on horn size of mountain sheep*. Ignite style oral presentation. USGS and Wyoming Game and Fish Cooperator Meeting; Annual Meeting. Laramie, Wyoming. April 2017.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman and K. Monteith. *Influence of harvest and environmental factors on horn size of wild sheep*. Poster presentation. Wyoming Chapter Conference of The Wildlife Society. Cody, Wyoming. November 2016.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman and K. Monteith. *Influence of harvest and environmental factors on horn size of wild sheep*. Poster presentation. National Conference of The Wildlife Society. Raleigh, North Carolina. October 2016.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman and K. Monteith. *Role of harvest, demography, and changing environments on size of animal weaponry*. Oral presentation. Department of Zoology and Physiology Brown Bag Seminar. Laramie, Wyoming. September 2016.
- LaSharr, T.**, R. Long, J. Heffelfinger, R. T. Bowyer, V. Bleich, P. Krausman and K. Monteith. *Factors influencing temporal trends in horn size of mountain sheep in North America*. Ignite style oral presentation. USGS and Wyoming Game and Fish Cooperator Meeting; Annual Meeting. Laramie, Wyoming. April 2016.
- LaSharr, T.** and R. Duckworth. *Mechanisms influencing distribution and coexistence of Mountain and Western Bluebirds*. Poster presentation. University of Arizona, School of Natural Resources and the Environment Earth Week Poster Session. Tucson, Arizona. April 2015.
- LaSharr, T.** and R. Duckworth. *Mechanisms influencing distribution and the coexistence of two passerine birds*. Poster presentation. University of Arizona Undergraduate Biology Research Program Conference. Tucson, Arizona. January 2015.
- LaSharr, T.** and R. Duckworth. *Effects of interspecific aggression on range distribution in closely related species*. Poster presentation. University of Arizona 5th Annual Ecology and Evolutionary Biology Undergraduate Research Poster Session. Tucson, Arizona. April 2014. **1st Place in Emerging Research.**

LaSharr, T., S. Schwenck, C. Bugbee and A. Neils. 2013. *Reaction of coyotes to a variety of olfactory stimuli from interspecific carnivores.* Oral presentation. Wildlife Society Joint Annual Meeting: Arizona – New Mexico Chapters. Pinetop, Arizona. February 2014. **Best Student Oral Presentation.**

TEACHING EXPERIENCE

- Spring 2022 **Animal Movement and Habitat Selection Modeling; University of Wyoming**
Co-instructor with Dr. Jerod Merkle
- Developed and led weekly lectures and class discussions on movement ecology and habitat selection. Assisted with weekly labs.
- Spring 2017 **Principles of Fish & Wildlife Management (ZOO 2450); University of Wyoming**
Graduate Teaching Assistant, class instructor: Dr. Kevin Monteith
- Developed and led lectures and class discussions on basic principles of wildlife and fisheries management, genetics, behavior and policy; graded homework, term papers and exams.
- Fall 2015 **General Biology (LIFE 1010); University of Wyoming**
Graduate Teaching Assistant, lab coordinator: Chris North
- Instructed two laboratory sections; lectured on basic biology concepts, led individual and group experiments and class discussions; graded lab reports, quizzes and homework; proctored exams for the lecture portion of the class.
- Fall 2014 **Mammalogy (ECOL 485/585); University of Arizona**
Undergraduate Teaching Assistant, class instructor: Aletris Neils
- Identified and organized museum specimens, taught students identification and ecology of over 150 North American mammals; assisted students with mammal identification, trapping transects, bat mist-netting, small mammal handling and measuring, meso-carnivore trap setting and processing.
- Spring 2014 **Ornithology (ECOL 484/584); University of Arizona**
Undergraduate Teaching Assistant, class instructor: Dr. Renee Duckworth
- Assisted with laboratory sessions: organized specimens set up labs and identified museum specimens.
- Fall 2013 **Field Botany (RNR 230); University of Arizona**
Undergraduate Teaching Assistant, class instructor: Dr. Steven Smith
- Collected plant materials for weekly laboratory sessions; demonstrated knowledge of Sonoran desert plants in the field and laboratory setting.

ADDITIONAL EXPERIENCE

- Aug 2015 – present **Wyoming Cooperative Fish and Wildlife Research Unit**
- Assist on a variety of graduate student projects; neonate mule deer and elk capture and collaring; adult mule deer, bighorn sheep, elk, and moose capture and handling; mule deer recruitment surveys; vegetation transects.
- Sept 2013 – May 2015 **Arizona Game and Fish Department**
- Black-footed ferret spotlighting and capture; Wildlife Techniques Workshop (trapping, CODA net guns, mammal tracking, radio telemetry); Mexican Gray Wolf Recovery Project monitoring; habitat restoration for endangered species; desert bighorn sheep capture; mule deer check station; black-tailed

prairie dog trapping and tagging; turkey captures, transect surveys for antelope and black-tailed jackrabbits.

PROFESSIONAL SERVICE

Jan 2022 – May 2022	Graduate Student Representative, Zoology and Physiology Department
Nov 2019 – Nov 2022	The Wildlife Society, Wyoming State Chapter, President (3-year term; President-elect, President, Past President)
Nov 2019 – Nov 2021	TWS Nutritional Ecology Working Group, Newsletter Editor

MEMBERSHIPS & PROFESSIONAL ORGANIZATIONS

The Wildlife Society	
National Chapter	Nov 2014 – present
Wyoming State Chapter	Nov 2016 – present
Arizona State Chapter	Nov 2013 – Nov 2015
University of Arizona Student Chapter	Aug 2013 – May 2015
Nutritional Ecology Working Group	Nov 2019 – present

PROFESSIONAL REFERENCES

Kevin Monteith, PhD
 Assistant Professor
 Haub School of Environment & Natural Resources
 WY Cooperative Fish & Wildlife Research Unit
 University of Wyoming
 kevin.monteith@uwyo.edu

Ryan Long, PhD
 Assistant Professor
 Department of Fish and Wildlife Sciences
 University of Idaho
 ralong@uidaho.edu

Jim Heffelfinger, MSc
 Science Coordinator
 Arizona Game and Fish Department
 Adjunct Professor
 University of Arizona
 jheffelfinger@azgfd.gov