

# **Kevin L. Monteith**

Haub School of Environment and Natural Resources  
Wyoming Cooperative Fish and Wildlife Research Unit  
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## **Education**

### **PhD Biological Sciences, August 2011.**

Idaho State University (ISU), Pocatello, Idaho

Dissertation title: *Life-history characteristics of mule deer: the pervasive effects of nutrition on survival, reproduction, and behavior in a variable environment.*

GPA: 4.0/4.0 (59 semester hours)

Advisors: Drs. R. Terry Bowyer and Vernon C. Bleich

### **MSc Wildlife and Fisheries Sciences, May 2006.**

South Dakota State University (SDSU), Brookings, South Dakota

Thesis title: *Sexual segregation in white-tailed deer: intersexual divergence in digestive function, morphology, and behavior*

GPA: 3.9/4.0 (38 semester hours)

Advisor: Dr. Jonathan A. Jenks

### **BSc Wildlife and Fisheries Sciences, with highest honors, May 2003.**

South Dakota State University, Brookings, South Dakota

GPA: 3.9/4.0 (128 semester hours)

## **Professional experience and employment**

- 2015 – Assistant Professor; Haub School of Environment and Natural Resources, Wyoming Cooperative Fish and Wildlife Research Unit, Department of Zoology and Physiology, University of Wyoming, Laramie, Wyoming.
- 2013 – 2015 Assistant Research Professor; Wyoming Cooperative Fish and Wildlife Research Unit, Department of Zoology and Physiology, University of Wyoming, Laramie, Wyoming.
- 2011 – 2013 Postdoctoral Research Scientist; Wyoming Cooperative Fish and Wildlife Research Unit, University of Wyoming, Laramie, Wyoming.

2006 – 2011 Doctoral Research Assistant; Department of Biological Sciences, ISU, Pocatello, Idaho and Scientific Aide, California Department of Fish and Game, Bishop, California.

2003 – 2006 Graduate Research Assistant; Department of Wildlife and Fisheries Sciences, SDSU, Brookings, South Dakota.

2001 – 2002 Soil Conservationist Trainee; Natural Resources Conservation Service, Yankton and Brookings, South Dakota.

1999 – 2003 Research Technician; Department of Wildlife and Fisheries Sciences, SDSU, Brookings, South Dakota

**Graduate students – committee chair**

Samantha Dwinnell – MSc – Nutritional relationships among habitat conditions, anthropogenic disturbance, and behavior of mule deer. Expected graduation May 2016.

Ellen Aikens – PhD – Efficiency of phenological tracking and implications for nutritional gain and climate change in mule deer. Committee co-chair with Dr. Matthew Kauffman as chair. Expected graduation May 2018.

Alex May – MSc – Population dynamics of moose in the Snowy Range: seeking to keep a good thing going. Co-chaired by Dr. Matthew Kauffman. Expected graduation May 2017.

Bryan Lamont – MSc – Effects of beetle kill on behavior of elk and hunters. Committee co-chair with Dr. Matthew Kauffman as chair. Expected graduation May 2017.

Taylor LaSharr – MSc – Harvest records: implications for understanding factors affecting horn and antler size in ungulates. Expected graduation May 2018.

Matthew Hayes – PhD – Deer-Elk Ecology Research Project. Expected graduation May 2020.

**Graduate students – committee member**

Brett R. Jesmer – PhD – Linking habitat with population performance of Shiras moose. Expected graduation May 2017.

Brendan A. Oates – MSc – Demographic performance of Shiras moose with contrasting predation pressure and environmental conditions. Expected graduation May 2015.

**Peer-reviewed publications**

- Smith, J. B., T. W. Grovenburg, **K. L. Monteith**, and J. A. Jenks. 2015. Survival of female bighorn sheep (*Ovis canadensis*) in the Black Hills, South Dakota. *American Midland Naturalist* 174:290–301.
- Monteith, K. L.**, R. W. Klaver, K. R. Hersey, A. A. Holland, T. P. Thomas, and M. J. Kauffman. 2015. Effects of climate and plant phenology on recruitment of moose at the southern extent of their range. *Oecologia* 178:1137–1148.
- Shallow, J. R. T., M. A. Hurley, **K. L. Monteith**, and R. T. Bowyer. 2015. Cascading effects of habitat on maternal condition and life-history characteristics of neonatal mule deer. *Journal of Mammalogy* 96:194–205.
- Bowyer, R. T., V. C. Bleich, K. M. Stewart, J. C. Whiting, and **K. L. Monteith**. 2014. Density dependence in ungulates: a review of causes, and concepts with some clarifications. *California Fish and Game* 100:550–572.
- Jones, J. D., M. J. Kauffman, **K. L. Monteith**, B. M. Scurlock, S. E. Albeke, and P. C. Cross. 2014. Winter feeding alters migration of elk in western Wyoming. *Ecological Applications* 24:1769–1779.
- Grovenburg, T. W., **K. L. Monteith**, C. N. Jacques, R. W. Klaver, C. S. DePerno, T. J. Brinkman, K. B. Monteith, S. L. Gilbert, V. C. Bleich, C. S. Swanson, and J. A. Jenks. 2014. Re-evaluating neonatal age models for ungulates: does model choice affect survival estimates? *PLoS ONE* 38:89–95.
- Copeland, H. E., H. Sawyer, **K. L. Monteith**, D. E. Naugle, A. Pocewicz, N. Graf, and M. J. Kauffman. 2014. Conserving migratory mule deer through the umbrella of sage-grouse. *Ecosphere* 5:art117.
- Lendrum, P. E., C. R. Anderson, **K. L. Monteith**, J. A. Jenks, and R. T. Bowyer. 2014. Movement of a rapidly migrating ungulate: effects of forage quality. *Mammalian Biology* 79:369–375.
- Long, R. A., R. T. Bowyer, W. P. Porter, P. Mathewson, **K. L. Monteith**, and J. G. Kie. 2014. Behavior and nutritional condition buffer a large-bodied endotherm against the direct and indirect costs of climate. *Ecological Monographs* 84:513–532.
- Monteith, K. B., **K. L. Monteith**, L. E. Schmitz, R. T. Bowyer, D. M. Leslie, Jr., and J. A. Jenks. 2014. Reproductive and sex-specific effects on the reliability of fecal nitrogen as an index of diet quality. *Journal of Mammalogy* 95:301–310.
- Monteith, K. L.**, V. C. Bleich, T. R. Stephenson, B. M. Pierce, M. M. Conner, J. G. Kie, and R. T. Bowyer. 2014. Life-history characteristics of mule deer: effects of nutrition in a variable environment. *Wildlife Monographs* 186:1–62.
- Grovenburg, T. W., R. W. Klaver, C. N. Jacques, T. J. Brinkman, C. C. Swanson, C. S. DePerno, **K. L. Monteith**, V. C. Bleich, J. J. Kie, and J. A. Jenks. 2014. Influence of landscape characteristics and morphology on retention of expandable radiocollars. *Wildlife Society Bulletin* 38:89–95.
- Bowyer, R. T., J. G. Kie, D. K. Person, and **K. L. Monteith**. 2013. Metrics of predation: perils of predator-prey ratios. *Acta Theriologica* 58:329-340. (*Invited paper*).
- Lendrum, P. E., C. R. Anderson, **K. L. Monteith**, J. A. Jenks, and R. T. Bowyer. 2013. Migrating mule deer: effects of anthropogenically altered landscapes. *PLoS ONE*:e64548.

- Monteith, K. L.**, T. R. Stephenson, V. C. Bleich, M. M. Conner, B. M. Pierce, and R. T. Bowyer. 2013. Risk-sensitive allocation in seasonal dynamics of fat and protein reserves in a long-lived mammal. *Journal of Animal Ecology* 82:377–388.
- Monteith, K. L.**, R. A. Long, V. C. Bleich, J. R. Heffelfinger, P. R. Krausman, and R. T. Bowyer. 2013. Effects of harvest, culture, and climate on trends in size of horn-like structures in trophy ungulates. *Wildlife Monographs* 183:1–28.
- Pierce, B. M., V. C. Bleich, **K. L. Monteith**, and R. T. Bowyer. 2012. Top-down versus bottom-up forcing: evidence from mountain lions and mule deer. *Journal of Mammalogy* 93:977–988.
- Monteith, K. L.**, K. B. Monteith, J. A. Delger, L. E. Schmitz, T. J. Brinkman, C. S. DePerno, and J. A. Jenks. 2012. Immobilization of white-tailed deer with telazol, ketamine, and xylazine, and evaluation of antagonists. *Journal of Wildlife Management* 76:1412–1419.
- Grovenburg, T. W., **K. L. Monteith**, R. W. Klaver, and J. A. Jenks. 2012. Predator evasion by white-tailed deer fawns. *Animal Behaviour* 84:59-65.
- Monteith, K. L.**, V. C. Bleich, T. R. Stephenson, B. M. Pierce, M. M. Conner, R. W. Klaver, and R. T. Bowyer. 2011. Timing of seasonal migration in mule deer: effects of climate, plant phenology, and life-history characteristics. *Ecosphere* 2:art47.
- Delger, J. A., **K. L. Monteith**, L. E. Schmitz, and J. A. Jenks. 2011. Preference of white-tailed deer for corn hybrids and agricultural husbandry practices during the growing season. *Human-Wildlife Interactions* 5:32–46.
- Monteith, K. L.**, L. E. Schmitz, J. A. Jenks, J. A. Delger, and R. T. Bowyer. 2009. Growth of male white-tailed deer: consequences of maternal effects. *Journal of Mammalogy* 90:651–660.
- Grovenburg, T. W., J. A. Jenks, R. W. Klaver, **K. L. Monteith**, D. H. Galster, R. J. Schauer, W. W. Morlock, and J. A. Delger. 2008. Factors affecting road mortality of white-tailed deer in Eastern South Dakota. *Human-Wildlife Conflicts* 2:48–59.
- Monteith, K. L.**, C. L. Sexton, J. A. Jenks, and R. T. Bowyer. 2007. Evaluation of techniques for categorizing group membership of white-tailed deer. *Journal of Wildlife Management* 71:1712–1716.
- Delger, J. A., **K. L. Monteith.**, and J. A. Jenks. 2007. *Clostridium perfringens* type A enterotoxemia in a captive adult white-tailed deer. *The Prairie Naturalist* 38:197–202.
- Terrall, D. F., **K. L. Monteith**, T. W. Grovenburg, B. M. Burris, B. M. Hien, C. C. Swanson, A. D. Steinke, and J. A. Jenks. 2005. Population models for white-tailed deer in the Black Hills of South Dakota. *Proceedings of the South Dakota Academy of Science* 84:119–127.
- Brinkman, T. J., **K. L. Monteith**, J. A. Jenks, and C. S. DePerno. 2004. Predicting neonatal age of white-tailed deer in the Northern Great Plains. *The Prairie Naturalist* 36:75–81.

### **Publications in review or final stages of preparation**

- Long, R. A., R. T. Bowyer, W. P. Porter, P. Mathewson, **K. L. Monteith**, S. L. Findholt, B. L. Dick, and J. G. Kie. 2016. Behaviorally mediated effects of the energetic

- landscape on fitness components of a large-bodied endotherm. *Oecologia*. *In press*.
- Jesmer, B. R., J. R. Goheen, **K. L. Monteith**, and M. J. Kauffman. State-dependent foraging alters endocrine-energy relationships in a free-ranging large herbivore. *Functional Ecology*. *In review*.
- Sawyer, H., A. D. Middleton, K. L. Monteith, and M. J. Kauffman. The extra mile: ungulate migration alters use of seasonal range and exposure to anthropogenic risk. *Ecosphere*. *In review*.
- Merkle, J. A., K. L. Monteith, E. O. Aikens, M. M. Hayes, K. R. Hersey, A. D. Middleton, B. A. Oates, H. Sawyer, B. M. Scurlock, and M. J. Kauffman. Do large herbivores surf waves of green-up in spring? *Proceedings of the Royal Society of London B*. *In review*.
- Stephenson, T. R., **K. L. Monteith**, R. C. Cook, D. Walsh, E. F. Cassirer, B. J. Gonzales, V. C. Bleich, M. W. Overstreet, and D. G. Whittaker. Nutritional condition of bighorn sheep: *in vivo* assessment and its application. *Journal of Wildlife Management*. *In prep*.
- Monteith, K. L.**, J. R. Goheen, G. R. Fralick, T. R. Stephenson, and M. J. Kauffman. Assessing nutritional condition of Shiras moose: methodological refinement and implications in a declining population. *Canadian Journal of Zoology*. *In prep*.

### **Book chapters and popular articles**

- Bowyer, R. T., K. M. Stewart, **K. L. Monteith**, and R. A. Long. 2012. Wildlife ecology. Pages 2963–2968 in A.-H. El-Shaarawi and W. Piegorsch, editors. *Encyclopedia of Environmetrics*, Second Edition. John Wiley & Sons Ltd, Chichester, UK. DOI: 10.1002/9780470057339.vaw011.pub2.
- Monteith, K. L.** 2012. Expanding and escalating conservation challenges for big game in the northern Great Plains. *Great Plains Natural Science Society Newsletter* 2: 5-10 (*invited paper*).
- Monteith, K. L.**, L. E. Schmitz, J. A. Delger, K. L. Monteith, and J. A. Jenks. 2011. The maternal effect: carrying the consequence of nutrition across generations. *Quality Whitetails*. June-July:64-70 (*invited paper*).
- Delger, J. A., **K. L. Monteith**, and J. A. Jenks. 2010. Corn hybrids: deer taste the difference. *Quality Whitetails*. December-January:20-26 (*invited paper*).
- Monteith, K. L.**, J. A. Jenks, and R. T. Bowyer. 2009. Consequences of maternal effects on antler and body size of white-tailed deer. *Trophy Points: Big Game Research Online*, Boone & Crockett Club. August 2009 (*invited paper*). <http://www.boone-crockett.org>
- Monteith, K. L.**, and V. C. Bleich. 2007. Mule deer fawn survival in Central Sierra Nevada. *Outdoor California* 68:26-29.
- Monteith, K. L.**, and V. C. Bleich. 2007. Mule deer fawn survival in the Central Sierra Nevada. *California Deer: the official publication of the California Deer Association*. Winter 2007.
- Monteith, K. L.**, and V. C. Bleich. 2006. Fawn survival in Central Sierra Nevada. *Mule Deer Foundation Magazine* No. 9.

**Research grants**

- **K. L. Monteith.** 2015. Harvest records: implications for understanding factors affecting horn and antler size in ungulates. California Chapter of the Wild Sheep Foundation. \$7,500.
- **K. L. Monteith.** 2016. Harvest records: implications for understanding factors affecting horn and antler size in ungulates. Utah Division of Wildlife Resources. \$15,000.
- **K. L. Monteith, G. Fralick, and J. Randall.** 2016. Effects of habitat, nutrition, and predation on survival of neonatal mule deer. Bowhunters of Wyoming. \$4,385.
- **K. L. Monteith, P. Burke, K. Spence, and M. Zornes.** 2016. Deer-Elk Ecology Research Project. Bowhunters of Wyoming. \$4,385.
- **K. L. Monteith, P. Burke, K. Spence, and M. Zornes.** 2015. Deer-Elk Ecology Research Project. Wyoming Game and Fish Department. \$250,000.
- **G. Fralick, and K. L. Monteith.** 2015. Effects of predation on survival of newborn mule deer in the Wyoming Range. Animal Damage Management Board. \$50,000.
- **K. L. Monteith.** 2016. Harvest records: implications for understanding factors affecting horn and antler size in ungulates. National Wild Sheep Foundation. \$10,000.
- **K. L. Monteith, M. J. Kauffman, C. Class, R. King, L. Knox, W. Schultz.** 2015. Populations dynamics of moose in the Snowy Range: seeking to keep a good thing going. Wyoming Game and Fish Department. \$90,000.
- **K. L. Monteith, P. Burke, K. Spence, and M. Zornes.** 2015. Deer Elk Ecology Project. Muley Fanatic Foundation. \$75,000.
- **K. L. Monteith, G. Fralick, and J. Randall.** 2015. Effects of habitat, nutrition, and predation on survival of neonatal mule deer. Wyoming Game and Fish Department. \$40,000.
- **K. L. Monteith, G. Fralick, and J. Randall.** 2015. Effects of habitat, nutrition, and predation on survival of neonatal mule deer. Muley Fanatic Foundation. \$30,000.
- **K. L. Monteith, G. Fralick, and J. Randall.** 2015. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Bureau of Land Management. \$65,000.
- **K. L. Monteith, G. Fralick, and J. Randall.** 2015. Effects of habitat, nutrition, and predation on survival of neonatal mule deer. Wyoming Wildlife and Natural Resource Trust. \$131,000.
- **K. L. Monteith, G. Fralick, and J. Randall.** 2015. Effects of habitat, nutrition, and predation on survival of neonatal mule deer. Bowhunters of Wyoming. \$3,000.
- **K. L. Monteith, P. Burke, K. Spence, and M. Zornes.** 2015. Deer Elk Ecology Project. Wyoming Governor's Big Game License Coalition. \$10,000.
- **K. L. Monteith, G. Fralick, and J. Randall.** 2015. Effects of habitat, nutrition, and predation on survival of neonatal mule deer. Wyoming Governor's Big Game License Coalition. \$10,000.
- **K. L. Monteith, H. Edwards, D. McWhirter, T. Woolley, A. Courtemanch, G. Fralick, D. Brimeyer, G. Andersen, and D. Lutz.** 2015. Nutritional carrying

capacity and interactions with disease in bighorn sheep. Wyoming Governor's Big Game License Coalition. \$60,000.

- **K. L. Monteith**, M. J. Kauffman, C. Class, R. King, L. Knox, W. Schultz. 2015. Populations dynamics of moose in the Snowy Range: seeking to keep a good thing going. Wyoming Governor's Big Game License Coalition. \$40,000.
- **K. L. Monteith**. 2015. Harvest records: implications for understanding factors affecting horn and antler size in ungulates. Wyoming Governor's Big Game License Coalition. \$4,000.
- **K. L. Monteith**. 2015. Harvest records: implications for understanding factors affecting horn and antler size in ungulates. National Wild Sheep Foundation. \$7,000.
- **K. L. Monteith**. 2015. Harvest records: implications for understanding factors affecting horn and antler size in ungulates. California Chapter of the Wild Sheep Foundation. \$7,500.
- **K. L. Monteith**, H. Edwards, M. J. Kauffman, D. McWhirter, T. Woolley, A. Courtemanch, G. Fralick, D. Brimeyer, G. Andersen, and D. Lutz. 2014. Nutritional carrying capacity and interactions with disease in bighorn sheep. Wyoming Wildlife/Livestock Disease Research Partnership. \$60,945.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2014. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Bureau of Land Management. \$30,000.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2014. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Wyoming Game and Fish Department. \$10,000.
- **K. L. Monteith**, and M. J. Kauffman. 2014. Phenological drivers of nutritional condition, space use, and fitness of a temperate herbivore: implications for management and conservation in the face of climate change. United States Geological Survey Climate Science Center. \$100,000
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2014. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Muley Fanatic Foundation of Wyoming. \$60,000.
- G. Fralick, and **K. L. Monteith**. 2014. Effects of predation on survival of newborn mule deer in the Wyoming Range. Animal Damage Management Board. \$50,000.
- **K. L. Monteith**, G. Fralick, S. Smith, J. Randall, A. Courtemanch, and M. J. Kauffman. 2014. Effects of habitat, nutrition, and predation on survival of neonatal mule deer. Wyoming Wildlife and Natural Resource Trust. \$148,000.
- B. A. Oates, J. R. Goheen, **K. L. Monteith**, and M. J. Kauffman. 2014. Evaluating the influence of bear and wolf predation on population performance of moose in western Wyoming. Safari Club International Foundation. \$25,000.
- **K. L. Monteith**, M. J. Kauffman, C. Class, R. King, L. Knox, W. Schultz. 2014. Populations dynamics of moose in the Snowy Range: seeking to keep a good thing going. Wyoming Governor's Big Game License Coalition. \$20,000.
- **K. L. Monteith**, M. J. Kauffman, C. Class, R. King, L. Knox, W. Schultz. 2014. Populations dynamics of moose in the Snowy Range: seeking to keep a good thing going. Wyoming Game and Fish Department. \$90,000.

- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2014. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Wyoming Governor's Big Game License Coalition. \$5,000.
- **K. L. Monteith**. 2014. Efficiency of phenological tracking and climate effects on migratory mule deer. Graduate student enhancement, University of Wyoming. \$2,600.
- M. J. Kauffman, **K. L. Monteith**, and B. R. Jesmer. 2014. The state-dependent metabolic hypothesis: implications for the foraging ecology and life history of migratory ungulates in the Greater Yellowstone Ecosystem. University of Wyoming-National Park Service Research Center. \$5,000.
- **K. L. Monteith**, A. D. Middleton, H. Sawyer, M. J. Kauffman, G. Fralick, and S. Smith. 2013. Fitness consequences of energy development: an effort to understand and reduce the human footprint on large ungulate populations. Boone and Crockett Club. \$15,500.
- S. Smith, G. Fralick, **K. L. Monteith**, and M. J. Kauffman. 2013. Identifying crucial fawning areas to allow targeted and effective predator control in the Wyoming Range. Animal Damage Management Board. \$20,000.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2013. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Wyoming Governor's Big Game License Coalition. \$15,000.
- J. R. Goheen, G. Fralick, M. J. Kauffman, **K. L. Monteith**, B. Oates, and S. Smith. 2013. Habitat requirements, distribution, and population characteristics of the Sublette moose herd, Wyoming. Wyoming Governor's Big Game License Coalition. \$25,000.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2013. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Wyoming Game and Fish Department. \$35,745.
- **K. L. Monteith**, J. Randall, A. Courtemanch, G. Fralick, S. Smith, M. J. Kauffman. 2013. Identifying how habitat treatments influence nutritional condition, reproduction, and survival of Wyoming Range mule deer. Wyoming Wildlife and Natural Resource Trust. \$158,280.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2013. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Muley Fanatic Foundation of Wyoming. \$60,000.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2013. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Bowhunters of Wyoming. \$3,000.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2013. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Bureau of Land Management. \$30,000.
- **K. L. Monteith**, A. D. Middleton, H. Sawyer, M. J. Kauffman, G. Fralick, and S. Smith. 2012. Fitness consequences of energy development: an effort to understand and reduce the human footprint on large ungulate populations. Boone and Crockett Club. \$15,500.

- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2012. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Star Valley Chapter of Sportsmen for Fish and Wildlife. \$1,000.
- S Smith, G. Fralick, **K. L. Monteith**, and M. J. Kauffman. 2012. Identifying crucial fawning areas to allow targeted and effective predator control in the Wyoming Range. Animal Damage Management Board. \$10,000.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2012. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Wyoming Governor's Big Game License Coalition. \$8,500.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2012. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Mule Deer Foundation. \$20,000.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2012. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Muley Fanatic Foundation of Wyoming. \$20,000.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2012. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Wyoming Game and Fish Department. \$172,000.
- **K. L. Monteith**, M. J. Kauffman, G. Fralick, and S. Smith. 2012. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Bowhunters of Wyoming. \$2,800.
- Muir, J. D., R. A. Long, and **K. L. Monteith**. 2012. Fetal sex ratios and nutritional condition of mule deer in south-central Oregon: a test of the Trivers-Willard hypothesis. Klamath Falls Chapter of the Mule Deer Foundation, Oregon. \$3,000.
- **Monteith, K. L.**, K. B. Monteith, and J. A. Jenks. 2010. Reproductive ecology of male white-tailed deer. National Fish and Wildlife Foundation administered through Quality Deer Management Association. \$21,200.
- Monteith, K. B., **K. L. Monteith**, and J. A. Jenks. 2010. Reproductive ecology of male white-tailed deer: suppression of young males? Southeast Regional Chapter of the Quality Deer Management Association, South Dakota. \$3,000.
- Monteith, K. B., **K. L. Monteith**, and J. A. Jenks. 2010. Evaluation of condensed tannins as a deterrent to white-tailed deer depredation on soybeans. The Jack H. Berryman Institute, Utah State University. \$16,500.
- Stephenson, T. R., and **K. L. Monteith**. 2008. Population dynamics of mule deer of the eastern Sierra Nevada. California Department of Fish and Game. \$174,525.
- **Monteith, K. L.**, and T. R. Stephenson. 2008. Age at first reproduction in female mule deer. California Deer Association Project Code #023-08. \$10,000.
- **Monteith, K. L.**, L. E. Schmitz, and J. A. Jenks. 2008. Antler growth and development relative to age of South Dakota deer. South Dakota Department of Game, Fish and Parks. \$3,500.
- Stephenson, T. R., and **K. L. Monteith**. 2007. Population dynamics of mule deer of the eastern Sierra Nevada. California Department of Fish and Game. \$130,250.
- Delger, J. A., and **Monteith, K. L.** 2007. Antler growth and development relative to age of South Dakota deer. Brookings Chapter of Whitetails Unlimited. \$500.

- Stephenson, T. R., and **K. L. Monteith**. 2007. San Joaquin River fawn mortality investigations. California Deer Association Project Code #0020-07. \$30,000.
- Bleich, V. C., and **K. L. Monteith**. 2007. Population dynamics and reproductive ecology of Sierra Nevada mule deer. Granite Bay Chapter of Safari Club International. \$3,000.
- Bleich, V. C., and **K. L. Monteith**. 2007. San Joaquin River drainage fawn mortality investigations. Mule Deer Foundation. MDF Project Code #CA-0706. \$20,000.
- Jenks, J. A., **K. L. Monteith**, and J. A. Delger. 2006. Deer preference of corn in relation to hybrids and husbandry during the growing season. Jack H. Berryman Institute, Utah State University. \$15,000.
- Jenks, J. A., and **K. L. Monteith**. 2004. Sex related differences in forage intake of white-tailed deer. South Dakota Department of Game, Fish and Parks. \$26,666.
- **Monteith, K. L.**, and J. A. Jenks. 2002. Intersexual variation in intake as it relates to sexual segregation in white-tailed deer. National Science Foundation/EPSCoR Grant #EPS-0091948. \$3,000.

### **Academic awards and honors**

- Wildlife Professional of the Year for 2015, awarded by the Wyoming Chapter of The Wildlife Society.
- Wildlife Publication Award—Outstanding Monograph awarded by The Wildlife Society for “Life-history characteristics of mule deer: effects of nutrition in a variable environment” (2015).
- Employee Excellence Award for Outstanding Scientific Publication of 2014, awarded by California Department of Fish and Wildlife for “Effects of harvest, culture, and climate on trends in size of horn-like structures in trophy ungulates” (2014).
- Outstanding Graduate Researcher (ISU; 2011)
- Ted Trueblood Communications Award for Best Student Presentation: Annual meeting of the Idaho Chapter of The Wildlife Society (2010).
- Ted Trueblood Communications Award for Best Student Presentation: Annual meeting of the Idaho Chapter of The Wildlife Society (2008).
- McKenzie Distinguished Service Award in recognition of outstanding contribution toward professionalism, education and advancement of the art of taxidermy (South Dakota Taxidermy Association; 2005).
- MS Wildlife Graduate Student of the Year (SDSU; 2004).
- Schultz-Werth Award for Scholarly Undergraduate Research (SDSU; 2003).
- Best Integrated Natural Resource Management Plan (SDSU; 2003).
- Inducted into the Golden Key International Honor Society (2002).

### **Scholarships**

- Shikar Safari Club Scholarship (ISU, 2008)
- Edson Fichter Wildlife Ecology Scholarship (ISU, 2008)

- California Deer Association Scholarship for academic excellence, achievement, and leadership qualities (2006)
- Wilbur Allen Scholarship (SDSU, 2003)
- Wilbur Allen Scholarship (SDSU, 2002)
- Walton/McCook Scholarship (SDSU, 2002)
- William and Byrne Griffith Scholarship (SDSU, 2002)
- William and Byrne Griffith Scholarship (SDSU, 2001)
- Wilbur Allen Scholarship (SDSU, 2001)
- Sioux Falls Izaak Walton League Scholarship (SDSU, 2001)
- South Dakota Trappers Association Scholarship (SDSU, 2000)

### **Certifications**

- Longhunter Official Measurer, Longhunter Muzzleloading Big Game Records Program, National Muzzle Loading Rifle Association. Measurer ID: *LHSID2048* (2010)
- Flying in the wire and obstruction environment. Robert Feerst, Utilities Aviation Specialists. (2010)
- Official certification for helicopter net-gunning, Coda Enterprises and California Department of Fish and Game (2009)  
Animals net-gunned to date: 81 mule deer, 2 mountain sheep
- Boone and Crockett Official Measurer, Boone and Crockett Club's Records of North American Big Game. Measurer ID: *M179* (2008)
- Provisional qualification for helicopter net-gunning, Coda Enterprises and California Department of Fish and Game (2007)
- Certification for Wildlife Chemical Immobilization and Restraint, California Department of Fish and Game (2007)

### **Teaching experience**

#### **Instructor, University of Wyoming**

Writing and Reviewing Science, ZOO 5890-09, Fall 2015 (3.0 units), co-taught with Dr. Anna Chalfoun

- Taught principles of effective writing and how to overcome obstacles of productive writing
- Taught how to format and prepare a manuscript for publication
- Discussed how to navigate the peer-review process
- Learned how to write a constructive and objective review

Principles of Fish and Wildlife Management, ZOO 2450, Spring 2015–2016 (3.0 units), Instructor of Record

- Taught fundamental principles of habitat and population biology and management
- Discussed role of human dimensions, law, and policy in fish and wildlife management
- Increased scientific literacy through reading, writing, and presenting science

Ecology, LIFE 3400, Spring 2013 (3.0 units), co-taught with Dr. Tracey Johnson

Ecology, LIFE 3400, Spring 2014 (3.0 units), Instructor of Record

- Taught fundamental principles of ecology and their application
- Discussed how ecological knowledge is generated and developed critical thinking skills
- Increased scientific literacy through reading and writing science

**Graduate Teaching Assistant, Idaho State University**

Ecology, BIO 209, under supervision of Dr. Ken Aho, Spring 2008

Ecology, BIO 209, under supervision of Dr. Peter Murphy, Spring 2007

- Taught basic concepts in ecology and their application
- Instructed on the foundation and use of basic statistics as a tool for evaluating results of experiments
- Assisted students with preparation of scientific papers and developing scientific writing skills

Biology, BIO 101 for Biology majors, under supervision of Dr. Janet Loxterman, Spring 2008

- Taught a variety of fundamental topics in Biology
- Assisted students with preparation of scientific papers and developing scientific writing skills

**Other teaching experience**

- Invited Guest Lecturer; “Chemical immobilization of deer,” for Principles Wildlife Management (WL 411); Dr. Susan Rupp, SDSU, (Fall 2010, 2009, 2008, 2007, 2006)
- Invited Guest Lecture; “Nutritional ecology of ruminants” for Wildlife Disease and Nutrition (WL 525); Dr. Jonathan A. Jenks, SDSU (Fall 2007)
- Invited Guest Lecture; “Sexual segregation of polygynous ungulates and considerations for management,” for Large Mammal Ecology and Management (WL 513); Dr. Jonathan A. Jenks, SDSU (Spring 2004, 2005, 2006)
- Laboratory Instructor Assistant; Principles of Wildlife Management (WL 411); Dr. Jonathan A. Jenks, SDSU(Fall 2004, 2005)
- Laboratory Instructor Assistant; Ornithology (WL 363); Dr. Lester D. Flake, SDSU (Fall 2003)

**Invited presentations**

**Monteith, K. L.** 2016. Causes and consequences of changes in horn size in North American wild sheep. 41<sup>st</sup> annual meeting and symposium of the Desert Tortoise Council. (*Symposium: Desert Bighorn Sheep: A Review of Science and Conservation Challenges*).

**Monteith, K. L.** 2015. Why migration matters: from individuals to populations. Emerging issues forum. Sustaining big game migration in the West: science, policy, and people. Hosted by Ruckelshaus Institute and Wyoming Migration Initiative, University of Wyoming Marian H. Rochelle Gateway Center, Laramie, Wyoming.

- Monteith, K. L.** 2015. Size of horn-like structures in ungulates: evidence for the role of selective harvest? Special topic session on selective harvest in the Department of Zoology and Physiology, University of Wyoming, Laramie, Wyoming.
- Stephenson, T. R., **K. L. Monteith**, A. P. Few, D. W. German, and J. D. Wehausen. 2015. Linking nutritional condition to population performance in a shifting climate: approaching the holy grail. Ecological Society of America, Baltimore, Maryland. (*Symposium: High-Elevation Ecosystems in a Warmer World: Mechanisms of Change and Interactions Between Abiotic and Biotic Processes*).
- Pierce, B. M., V. C. Bleich, **K. L. Monteith**, and R. T. Bowyer. 2014. Top-down versus bottom-up forcing: evidence from mountain lions and mule deer. Universidade Federal de Matto Grosso, Campo Grande, Brazil.
- Stephenson, T. R., and **K. L. Monteith**. 2014. Linking nutritional condition to population performance in ungulates: approaching the Holy Grail. Joint Meeting of the Wyoming Chapter and Central Mountains and Plains Section of the Wildlife Society, Sheridan, Wyoming. (*Symposium: Big Game Nutrition*).
- Monteith, K. L.**, T. R. Stephenson, V. C. Bleich, M. M. Conner, B. M. Pierce, and R. T. Bowyer. 2014. Risk-sensitive allocation in seasonal dynamics of fat and protein reserves in a long-lived mammal. Joint Meeting of the Wyoming Chapter and Central Mountains and Plains Section of the Wildlife Society, Sheridan, Wyoming. (*Symposium: Big Game Nutrition*).
- Monteith, K. L.** 2014. Intergenerational effects on growth of male white-tailed deer. Deer Associates Meeting hosted by the Ceasar Kleberg Wildlife Research Institute. San Antonio, Texas.
- Monteith, K. L.**, V. C. Bleich, R. T. Bowyer, and T. R. Stephenson. 2012. Nutritional dimensions of migration for large herbivores: roles of a fundamental mechanism. The Wildlife Society, Portland, Oregon. (*Symposium: Ecology, Conservation, and Management of Ungulate Migration*).
- Bowyer, R. T., J. G. Kie, D. K. Person, and **K. L. Monteith**. 2012. Metrics of predation: perils of predator-prey ratios. 7<sup>th</sup> International Moose Symposium, Bialowieża, Poland. (*Plenary Lecture*).
- Monteith, K. L.**, R. A. Long, V. C. Bleich, J. R. Heffelfinger, P. R. Krausman, and R. T. Bowyer. 2011. Size of horn-like structures in trophy ungulates: effects of climate, culture, or harvest? Annual Records Meeting of the Boone and Crockett Club, Clarkston, Washington.
- R. T. Bowyer, J. G. Kie, D. K. Person, and **K. L. Monteith**. 2011. Metrics of predation: perils of predator-prey ratios. Nevada Chapter of the Wildlife Society Annual Symposium, Reno, Nevada. (*Keynote address*).
- R. T. Bowyer, J. G. Kie, D. K. Person, and **K. L. Monteith**. 2009. Metrics of predation: perils of predator-prey ratios. 44<sup>th</sup> North American Moose Conference and Workshop, Pocatello, Idaho.
- Pierce, B. M., V. C. Bleich, R. T. Bowyer, **K. L. Monteith**, and T. R. Stephenson. 2008. Sierra Nevada mule deer population: top-down or bottom-up regulation? Predator-Prey Symposium, Pocatello, Idaho.
- R. T. Bowyer, J. G. Kie, D. K. Person, and **K. L. Monteith**. 2008. Metrics of predation: perils of predator-prey ratios. Predator-Prey Symposium, Pocatello, Idaho.

### Professional presentations

- White, J. R., M. R. Herrygers, J. M. Thomson, J. G. Berardinelli, C. J. Butler, R. A. Garrott, V. Copie, B. Tripet, D. E. McWhirter, W. H. Edwards, and **K. L. Monteith**. 2016. Using nuclear magnetic resonance spectroscopy to develop physiological profiles for bighorn sheep. Wyoming Chapter of the Wildlife Society, Missoula, Montana.
- Herrygers, M. R., J. White, J. Thomson, C. Butler, D. McWhirter, W. H. Edwards, **K. L. Monteith**, R. Garrott, and J. G. Berardinelli. 2016. Pregnancy rates, metabolites, and metabolic hormones in bighorn sheep (*Ovis Canadensis*) during and after the breeding season. Wyoming Chapter of the Wildlife Society, Missoula, Montana.
- Lamont, B., M. J. Kauffman, **K. L. Monteith**, and T. W. Mong. 2015. Influence of bark beetle epidemic on elk and hunter movement interactions. Joint Meeting of the Wyoming Chapter of The Wildlife Society and Wyoming Landscape Initiative, Lander, Wyoming.
- Reinking, A. K., J. L. Beck, T. W. Mong, **K. L. Monteith**, and M. Read. 2015. Survival of Red Desert pronghorn in the face of environmental and anthropogenic change. Joint Meeting of the Wyoming Chapter of The Wildlife Society and Wyoming Landscape Initiative, Lander, Wyoming.
- Hayes, M. M., **K. L. Monteith**, H. Sawyer, H. E. Copeland, and M. J. Kauffman. 2015. Prioritizing conservation via predictive modeling of migratory habitat. Joint Meeting of the Wyoming Chapter of The Wildlife Society and Wyoming Landscape Initiative, Lander, Wyoming.
- Merkle, J. A., M. J. Kauffman, **K. L. Monteith**, E. O. Aikens, M. M. Hayes, K. R. Hersey, B. A. Oates, H. Sawyer, and B. M. Scurlock. 2015. Do large herbivores surf NDVI-based rate of green-up? Joint Meeting of the Wyoming Chapter of The Wildlife Society and Wyoming Landscape Initiative, Lander, Wyoming.
- Sawyer, H., A. D. Middleton, **K. L. Monteith**, and M. M. Hayes. 2015. The extra mile: ungulate migration distance alters use of seasonal range and exposure to anthropogenic risk. Joint Meeting of the Wyoming Chapter of The Wildlife Society and Wyoming Landscape Initiative, Lander, Wyoming.
- Aikens, E. O., **K. L. Monteith**, J. A. Merkle, G. Chong, M. M. Hayes, S. P. H. Dwinell, and M. J. Kauffman. 2015. Does drought affect the ability of migratory mule deer to surf the green wave? Joint Meeting of the Wyoming Chapter of The Wildlife Society and Wyoming Landscape Initiative, Lander, Wyoming.
- Jesmer, B. R., J. R. Goheen, **K. L. Monteith**, and M. J. Kauffman. 2015. Estimating resource limitation in moose using endocrine tools. Joint Meeting of the Wyoming Chapter of The Wildlife Society and Wyoming Landscape Initiative, Lander, Wyoming.
- Oates, B. A., J. R. Goheen, G. L. Fralick, **K. L. Monteith**, J. A. Merkle, M. M. Hayes, D. R. Stahler, D. W. Smith, S. Dewey, S. L. Cain, M. D. Jimenez, and M. J. Kauffman. 2015. Evaluating effects of habitat condition, weather, and predator density on Shiras moose demography. Joint Meeting of the Wyoming Chapter of The Wildlife Society and Wyoming Landscape Initiative, Lander, Wyoming.
- Dwinell, S. P. H., H. Sawyer, M. J. Kauffman, G. L. Fralick, and **K. L. Monteith**. 2015. Nutritional relationships between mule deer behavior and human disturbance.

- Joint Meeting of the Wyoming Chapter of The Wildlife Society and Wyoming Landscape Initiative, Lander, Wyoming.
- Monteith, K. L.**, R. W. Klaver, K. R. Hersey, A. A. Holland, T. P. Thomas, and M. J. Kauffman. 2015. Effects of climate and plant phenology on recruitment of moose at the southern extent of their range. 22<sup>nd</sup> Annual conference of The Wildlife Society, Winnipeg, Manitoba, Canada.
- Aikens, E.O., **K. L. Monteith**, J. A. Merkle, G. Chong, M. M. Hayes, S. P. Dwinell, and M. J. Kauffman. 2015. Does drought affect the ability of migratory mule deer to surf the green wave? 22<sup>nd</sup> Annual conference of The Wildlife Society, Winnipeg, Manitoba, Canada.
- Merkle, J.A., M. J. Kauffman, **K. L. Monteith**, E. O. Aikens, M. M. Hayes, K. R. Hersey, H. Sawyer, and B. M. Scurlock. 2015. Do large herbivores surf NDVI-based rate of green-up? 22<sup>nd</sup> Annual conference of The Wildlife Society, Winnipeg, Manitoba, Canada.
- Oates, B. A., J. R. Goheen, G. L. Fralick, **K. L. Monteith**, J. A. Merkle, M. M. Hayes, D. R. Stahler, D. W. Smith, S. Dewey, S. Cain, M. D. Jimenez, and M. J. Kauffman. 2015. Evaluating the effects of habitat and predation on Shiras moose demography. 22<sup>nd</sup> Annual conference of The Wildlife Society, Winnipeg, Manitoba, Canada.
- Hayes, M. M., E. C. Fuller, M. J. Kauffman, E. J. Wald, and **K. L. Monteith**. 2015. Predicting ungulate parturition using GPS movement data. 22<sup>nd</sup> Annual conference of The Wildlife Society, Winnipeg, Manitoba, Canada.
- Stephenson, T. R., **K. L. Monteith**, A. P. Few, D. W. German, and J. D. Wehausen. 2015. Linking nutritional condition to population performance in bighorn sheep: approaching the holy grail. 53<sup>rd</sup> meeting of Desert Bighorn Council, Borrego Springs, California.
- Copeland, H. E., H. Sawyer, **K. L. Monteith**, D. E. Naugle, A. Pocewiz, N. Graf, and M. J. Kauffman. 2014. Conserving migratory mule deer through the umbrella of sage-grouse. 12<sup>th</sup> Biennial Scientific Conference on the Greater Yellowstone Ecosystem, Mammoth Hot Springs, Wyoming.
- Oates, B. A., J. R. Goheen, **K. L. Monteith**, and M. J. Kauffman. 2014. Comparative demography of two moose populations with contrasting predator densities. Joint Meeting of the Wyoming Chapter and Central Mountains and Plains Section of the Wildlife Society, Sheridan, Wyoming.
- Jesmer, B. R., J. R. Goheen, **K. L. Monteith**, and M. J. Kauffman. 2014. Linking habitat and nutrition with population performance in moose. Joint Meeting of the Wyoming Chapter and Central Mountains and Plains Section of the Wildlife Society, Sheridan, Wyoming.
- Copeland, H. E., H. Sawyer, **K. L. Monteith**, D. E. Naugle, A. Pocewicz, N. Graf, and M. J. Kauffman. 2014. Conserving migratory mule deer through the umbrella of sage-grouse. Joint Meeting of the Wyoming Chapter and Central Mountains and Plains Section of the Wildlife Society, Sheridan, Wyoming.
- Hayes, M. M., M. J. Kauffman, **K. L. Monteith**, and E. C. Fuller. 2014. Predicting ungulate parturition using movement data. Joint Meeting of the Wyoming Chapter and Central Mountains and Plains Section of the Wildlife Society, Sheridan, Wyoming.

- Copeland, H. E., H. Sawyer, **K. L. Monteith**, D. E. Naugle, A. Pocewiz, N. Graf, and M. J. Kauffman. 2014. Conserving migratory mule deer through the umbrella of sage-grouse. Society for Conservation Biology North American Congress, Missoula, Montana.
- Reinking, A. K., J. L. Beck, **K. L. Monteith**, T. W. Mong, and M. Read. 2014. Response of pronghorn population productivity to anthropogenic and environmental change in the Red Desert, Wyoming. Joint Meeting of the Wyoming Chapter and Central Mountains and Plains Section of the Wildlife Society, Sheridan, Wyoming (poster).
- Dwinnell, S. P. H., M. J. Kauffman, H. Sawyer, G. L. Fralick, and **K. L. Monteith**. 2014. Nutritional relationships between mule deer behavior and population performance. Joint Meeting of the Wyoming Chapter and Central Mountains and Plains Section of the Wildlife Society, Sheridan, Wyoming (poster).
- Collier, A. K., J. L. Beck, and **K. L. Monteith**. 2014. Response of pronghorn population productivity in the Red Desert, Wyoming to anthropogenic and environmental change. Biennial Pronghorn Workshop, Alpine, Texas.
- Jesmer, B. R., J. R. Goheen, **K. L. Monteith**, and M. J. Kauffman. 2014. Linking habitat and nutrition with population performance in moose. North American Moose Conference, Girdwood, Alaska.
- Oates, B. A., J. R. Goheen, G. L. Fralick, **K. L. Monteith**, and M. J. Kauffman. 2014. Comparative demography of two moose populations with contrasting predator densities. North American Moose Conference, Girdwood, Alaska.
- Pierce, B. M., V. C. Bleich, **K. L. Monteith**, and R. T. Bowyer. 2014. Top-down versus bottom-up forcing: evidence from mountain lions and mule deer. Eleventh Mountain Lion Workshop, Cedar City, Utah.
- Monteith, K. L.**, R. A. Long, V. C. Bleich, J. R. Heffelfinger, P. R. Krausman, and R. T. Bowyer. 2013. Effects of harvest, culture, and climate on trends in size of horn-like structures in trophy ungulates. Wyoming Chapter of The Wildlife Society, Laramie, Wyoming.
- Oates, B. A., J. R. Goheen, M. J. Kauffman, G. L. Fralick, S. G. Smith, and **K. L. Monteith**. 2013. Comparative demography of two moose populations with contrasting predator densities. Wyoming Chapter of The Wildlife Society, Rock Springs, Wyoming.
- Jesmer, B. R., J. R. Goheen, M. J. Kauffman, and **K. L. Monteith**. 2013. Linking habitat and nutrition with population performance in moose. Wyoming Chapter of The Wildlife Society, Rock Springs, Wyoming.
- Hayes, M. M., **K. L. Monteith**, H. Sawyer, and M. J. Kauffman. 2013. Evaluating patterns of migration across Wyoming's ungulates. Wyoming Chapter of The Wildlife Society, Rock Springs, Wyoming.
- Dwinnell, S. P. H., **K. L. Monteith**, H. Sawyer, J. E. Randall, A. B. Courtemanch, G. L. Fralick, S. G. Smith, and M. J. Kauffman. 2013. Quantifying the effects of indirect habitat loss on behavior, nutrition, and fitness of mule deer. Wyoming Chapter of The Wildlife Society, Rock Springs, Wyoming (poster).
- Bleich, V. C., **K. L. Monteith**, R. A. Long, J. R. Heffelfinger, P. R. Krausman, and R. T. Bowyer. 2013. Effects of harvest, culture, and climate on trends in size of horn-like structures in trophy ungulates. California Department of Fish and Wildlife Science Symposium, Folsom, California.

- Krausman, P. R., **K. L. Monteith**, R. A. Long, V. C. Bleich, J. R. Heffelfinger, and R. T. Bowyer. 2013. Effects of harvest, culture, and climate on trends in size of horn-like structures in trophy ungulates. 31<sup>st</sup> International Union of Game Biologists Congress, Brussels, Belgium.
- Jones, J. D., M. J. Kauffman, **K. L. Monteith**, B. Scurlock, S. E. Albeke, and P. C. Cross. 2013. Influence of winter feeding on migration strategies of elk (*Cervus elaphus*) in west-central Wyoming. Tenth Biennial Western States and Provinces Deer and Elk Workshop, Missoula, Montana.
- Monteith, K. L.**, R. A. Long, V. C. Bleich, J. R. Heffelfinger, Krausman, P. R., and R. T. Bowyer. 2013. Effects of harvest, culture, and climate on trends in size of horn-like structures in trophy ungulates. Tenth Biennial Western States and Provinces Deer and Elk Workshop, Missoula, Montana.
- Monteith, K. L.**, and M. J. Kauffman. 2012. Effects of climate and plant phenology on recruitment of moose at the southern extent of their range. Wyoming Chapter of The Wildlife Society, Laramie, Wyoming.
- Jesmer, B. R., J. R. Goheen, M. J. Kauffman, and **K. L. Monteith**. 2012. Linking habitat and nutrition with recruitment in Shiras moose. Wyoming Chapter of The Wildlife Society, Laramie, Wyoming. (poster)
- Oates, B. A., J. R. Goheen, M. J. Kauffman, Fralick, G. L., and K. L. Monteith. 2012. Investigating the Influences of Nutrition and Predation on Shiras Moose Demography in Western Wyoming. Wyoming Chapter of The Wildlife Society, Laramie, Wyoming. (poster)
- Jesmer, B. R., J. R. Goheen, M. J. Kauffman, and **K. L. Monteith**. 2012. Shiras moose declines: linking habitat with population performance. The Wildlife Society, Portland, Oregon. (poster)
- Monteith, K. L.**, and M. J. Kauffman. 2012. Calf recruitment of Shiras moose: effects of climate and plant phenology? American Society of Mammalogists, Reno, Nevada.
- Lendrum, P. E., C. R. Anderson, Jr., **K. L. Monteith**, J. A. Jenks, and R. T. Bowyer. 2012. When to migrate: effects of natural-gas development on migration in mule deer. American Society of Mammalogists, Reno, Nevada. (poster)
- Monteith, K.L.**, V. C. Bleich, T. R. Stephenson, B. M. Pierce, M. M. Conner, J. G. Kie, and R. T. Bowyer. 2011. Life-history characteristics of mule deer: implications of nutrition in a variable environment. Wyoming Chapter of The Wildlife Society, Jackson, Wyoming.
- Monteith, K. L.**, V. C. Bleich, T. R. Stephenson, B. M. Pierce, M. M. Conner, R. W. Klaver, and R. T. Bowyer. 2011. Timing of seasonal migration in mule deer: effects of climate, plant phenology, and life-history characteristics. American Society of Mammalogists, Portland, Oregon.
- Pierce, B. M., V. C. Bleich, **K. L. Monteith**, and R. T. Bowyer. 2011. Top-down versus bottom-up forcing: evidence from mountain lions and mule deer. American Society of Mammalogists, Portland, Oregon.
- Monteith, K. L.**, S. A. Kilpatrick, and M. J. Kauffman. 2011. Calf recruitment of Shiras moose in Wyoming: effects of climate? North American Moose Conference and Workshop, Jackson, Wyoming.

- R. T. Bowyer, J. G. Kie, D. K. Person, and **K. L. Monteith**. 2011. Metrics of predation: perils of predator-prey ratios. Western States and Provinces Deer and Elk Workshop, Santa Ana Pueblo, New Mexico.
- Stephenson, T. R., R. C. Cook, **K. L. Monteith**, D. Walsh, E. F. Cassirer, B. J. Gonzales, V. C. Bleich, M. W. Overstreet, and D. G. Whittaker. 2011. Predicting body fat in bighorn sheep and assessing nutritional status of populations. Desert Bighorn Council Meetings, Laughlin, Nevada.
- Monteith, K. B., **K. L. Monteith**, J. A. Delger, L. E. Schmitz, J. T. Kanta, and J. A. Jenks. 2011. Effect of age and region on antler growth and development of white-tailed deer in South Dakota. South Dakota Chapter of The Wildlife Society, Chamberlain, South Dakota.
- Monteith, K. B., **K. L. Monteith**, J. A. Jenks, L. E. Schmitz, R. T. Bowyer, and D. M. Leslie, Jr. 2010. Sex-specific variation in a nutritional index of white-tailed deer: temporal patterns? Central Mountains and Plains Section of The Wildlife Society, Chamberlain, South Dakota.
- R. T. Bowyer, J. G. Kie, D. K. Person, and **K. L. Monteith**. 2010. Metrics of predation: perils of predator-prey ratios. American Society of Mammalogists, Laramie, Wyoming.
- Monteith, K. L.**, J. A. Jenks, R. T. Bowyer, and L. E. Schmitz. 2010. Sexual segregation in white-tailed deer: intersexual divergence in digestive function and morphology. American Society of Mammalogists, Laramie, Wyoming.
- Monteith, K. B., **K. L. Monteith**, J. A. Jenks, L. E. Schmitz, R. T. Bowyer, and D. M. Leslie, Jr. 2010. Sex-specific variation in a nutritional index of white-tailed deer: temporal patterns? American Society of Mammalogists, Laramie, Wyoming.
- Monteith, K. L.**, K. B. Monteith, J. A. Jenks, L. E. Schmitz, R. T. Bowyer, and D. M. Leslie, Jr. 2010. Fecal nitrogen as an index to diet quality: sex-specific effects. Idaho Chapter of The Wildlife Society, Boise, Idaho (*Received Best Student Paper by The Wildlife Society*).
- Monteith, K. B., **K. L. Monteith**, J. A. Jenks, L. E. Schmitz, R. T. Bowyer, and D. M. Leslie, Jr. 2010. Fecal nitrogen as an index to diet quality: sex-specific effects. South Dakota Chapter of The Wildlife Society, Chamberlain, South Dakota.
- Monteith, K. L.**, L. E. Schmitz, J. A. Jenks, J. A. Delger, and R. Terry Bowyer. 2010. Growth of male white-tailed deer: consequences of maternal effects. Northwest Section of The Wildlife Society, Bend, Oregon.
- Bowyer, R. T., J. G. Kie, D. K. Person, and **K. L. Monteith**. 2010. Metrics of predation: perils of predator-prey ratios. Northwest Section of the Wildlife Society, Bend, Oregon.
- Monteith, K. L.**, L. E. Schmitz, J. A. Jenks, J. A. Delger, and R. Terry Bowyer. 2009. Growth of male white-tailed deer: consequences of maternal effects. The Wildlife Society, Monterey, California.
- Monteith, K. B., **K. L. Monteith**, J. A. Jenks, R. T. Bowyer, and D. M. Leslie, Jr. 2009. Fecal nitrogen as an index to diet quality: sex-specific effects. American Society of Mammalogists, Fairbanks, Alaska.
- Monteith, K. L.**, L. E. Schmitz, J. A. Jenks, J. A. Delger, and R. Terry Bowyer. 2009. Growth of male white-tailed deer: consequences of maternal effects. American Society of Mammalogists, Fairbanks, Alaska.

- Monteith, K. B., **K. L. Monteith**, and J. A. Jenks. 2009. Fecal Nitrogen as an index to forage quality, sex-specific effects. Joseph F. Nelson undergraduate research Symposium, South Dakota State University, Brookings, South Dakota.
- Bowyer, R. T., J. G. Kie, D. K. Person, and **K. L. Monteith**. 2009. Metrics of predation: perils of predator-prey ratios. Idaho Chapter of The Wildlife Society, Moscow, Idaho.
- Monteith, K. L.**, L. E. Schmitz, J. A. Jenks, J. A. Delger, and R. T. Bowyer. 2009. Growth of male white-tailed deer: consequences of maternal effects. Idaho Chapter of The Wildlife Society, Moscow, Idaho.
- Grovenburg, T. W., J. A. Jenks, R. W. Klaver, **K. L. Monteith**, C. N. Jacques, and S. P. Rupp. 2009. Sexual segregation in white-tailed deer. South Dakota Chapter of The Wildlife Society, Chamberlain, South Dakota.
- Monteith, K. L.**, B. M. Pierce, V. C. Bleich, T. R. Stephenson, and L. Konde. 2008. Population dynamics of mule deer in the Sierra Nevada: influence of density and climate. Climate, Ecosystems, and Resources in Eastern California Symposium, Bishop, California.
- Delger, J. A., J. A. Jenks, and **K. L. Monteith**. 2008. Deer preference of corn in relation to hybrids and husbandry during the growing season. Jack H. Berryman Institute Symposium, Starkville, Mississippi.
- Delger, J. A., J. A. Jenks, and **K. L. Monteith**. 2008. White-tailed deer preference of corn hybrids during the growing season. South Dakota Chapter of The Wildlife Society, Chamberlain, South Dakota.
- Monteith, K. L.**, J. A. Jenks, R. T. Bowyer, and L. E. Schmitz. 2008. Sexual segregation in white-tailed deer: intersexual divergence in digestive function and morphology. Idaho Chapter of The Wildlife Society, Boise, Idaho (*Received Best Student Paper by The Wildlife Society*).
- Delger, J. A., J. A. Jenks, **K. L. Monteith**, L. E. Schmitz, A. Smith, R. H. Pritchard, and Z. W. Wicks III. 2007. Do deer exhibit a preference for specific corn hybrids? South Dakota Chapter of The Wildlife Society, Chamberlain, South Dakota.
- Monteith, K. L.**, C. L. Sexton, J. A. Jenks, and R. T. Bowyer. 2007. Evaluation of techniques for categorizing group membership of white-tailed deer. Idaho Chapter of The Wildlife Society, Pocatello, Idaho.
- Delger, J. A., **K. L. Monteith**, L. E. Schmitz, J. A. Jenks, A. Smith, Zeno Wicks III, and R. Pritchard. 2006. Do deer exhibit preference for specific corn hybrids or husbandry practice? South Dakota Chapter of The Wildlife Society, Chamberlain, South Dakota.
- Monteith, K. L.**, L. E. Schmitz, J. A. Jenks. 2006. Bones of contention: antler accounts of white-tailed deer. South Dakota Chapter of The Wildlife Society, Chamberlain, South Dakota.
- Monteith, K. L.**, Chad L. Sexton, J. A. Jenks, L. E. Schmitz, and R. T. Bowyer. 2005. Evaluation of group classification techniques for monitoring sexual segregation in white-tailed deer. American Society of Mammalogists, Springfield, Missouri.
- Terrall, D. F., **K. L. Monteith**, T. W. Grovenburg, B. M. Burris, B. M. Hien, C. C. Swanson, A. D. Steinke, and J. A. Jenks. 2005. Population models for white-tailed deer in the Black Hills of South Dakota, Rapid City, South Dakota.

- Monteith, K. L.**, L. E. Schmitz, J. A. Jenks, and R. T. Bowyer. 2005. Seasonal variation in forage intake of captive white-tailed deer. South Dakota Chapter of The Wildlife Society, Chamberlain, South Dakota.
- Monteith, K. L.**, J. A. Jenks, L. E. Schmitz, P. S. Barboza, and R. T. Bowyer. 2004. Variation in morphology and nutrient intake relative to allometry and sexual segregation of white-tailed deer. The Wildlife Society, Calgary, Alberta, Canada.
- Monteith, K. L.**, J. A. Jenks, L. E. Schmitz, P. S. Barboza, and R. T. Bowyer. 2004. Variation in morphology and nutrient intake relative to allometry and sexual segregation of white-tailed deer. American Society of Mammalogists, Arcata, California.
- Monteith, K. L.**, J. A. Jenks, L. E. Schmitz, P. S. Barboza, and R. T. Bowyer. 2003. Intersexual variation in body mass and intake relative to allometry and sexual segregation of white-tailed deer. Midwest Fish and Wildlife Conference, Kansas City, Missouri.
- Monteith, K. L.**, and J. A. Jenks. 2003. Intersexual variation in intake as it relates to sexual segregation in white-tailed deer. Undergraduate Research Poster Session, Volstorff Ballroom, South Dakota State University, Brookings South Dakota, 24 April 2003 (poster).
- Monteith, K. L.**, J. A. Jenks, L. E. Schmitz, P. A. Barboza, and R. T. Bowyer. 2003. Intersexual variation in intake as is relates to sexual segregation in white-tailed deer. South Dakota Chapter of The Wildlife Society, Aberdeen, South Dakota.
- Monteith, K. L.**, and J. A. Jenks. 2003. Intersexual variation in intake as it relates to sexual segregation in white-tailed deer. Student Research Poster Session, Pierre South Dakota, 19 February 2003 (poster).

### **Other invited presentations**

- Dwinnell, S. P., E. O. Aikens, G. L. Fralick, J. Randall, R. Kaiser, and **K. L. Monteith**. The Wyoming Range Mule Deer Project. Wyoming Game and Fish Commission, Cheyenne, Wyoming.
- Dwinnell, S. P., E. O. Aikens, G. L. Fralick, J. Randall, R. Kaiser, and **K. L. Monteith**. The Wyoming Range Mule Deer Project. Wyoming Range Mule Deer Initiative Public Input Process. Presentations in Pinedale, Big Piney, Thayne, Kemmerer, and Green River, Wyoming.
- Monteith, K. L.** 2015. Understanding Wyoming mule deer. 2<sup>nd</sup> Annual Wyoming Mule Deer Coalition Meeting. Lander, Wyoming.
- Reinking, A. K., J. L. Beck, T. W. Mong, M. J. Read, and **K. L. Monteith**. 2015. The response of Red Desert pronghorn to environmental and anthropogenic stressors. Pronghorn Working Group. Lander, Wyoming.
- Monteith, K. L.** 2015. Learning what we can do for Wyoming mule deer. Baggs Mule Deer Initiative, Mule Deer Working Group. Rawlins, Wyoming.
- Monteith, K. L.** 2014. Body condition in ungulates: implications for disease in bighorn sheep. Wyoming Wild Sheep Foundation and Wyoming Bighorn Sheep Working Group Joint Meeting. Cody, Wyoming.
- Copeland, H. E., H. Sawyer, **K. L. Monteith**, D. E. Naugle, A. Pocewicz, N. Graf, and M. J. Kauffman. 2014. Conserving migratory mule deer through the umbrella of

- sage-grouse. Wyoming Mule Deer Coalition Inaugural Meeting. Daniel, Wyoming.
- Monteith, K. L.** 2014. Wyoming Range Mule Deer Project. Wyoming Mule Deer Coalition Inaugural Meeting. Daniel, Wyoming.
- Monteith, K. L.** 2014. Nutritional carrying capacity: implementation of a new tool. Wyoming Mule Deer Working Group. Pinedale, Wyoming.
- Monteith, K. L.** 2014. Learning what we can do for Wyoming mule deer. Wyoming Range Mule Deer Initiative Public Input Process. Lander, Wyoming.
- Monteith, K. L.** 2014. Learning what we can do for Wyoming mule deer. Wyoming Range Mule Deer Initiative Public Input Process. Lander, Wyoming.
- Oates, B. A., J. R. Goheen, M. J. Kauffman, G. L. Fralick, S. G. Smith, and **K. L. Monteith.** 2014. Demography and Movement in Relation to Potential Energy Development. Wyoming Game and Commission at a public meeting, Lander, Wyoming.
- Oates, B. A., J. R. Goheen, M. J. Kauffman, G. L. Fralick, S. G. Smith, and **K. L. Monteith.** 2014. Demography and Movement in Relation to Potential Energy Development. Sublette County Public Library, Pinedale, Wyoming.
- Monteith, K. L. 2014. Doing the right thing for Wyoming mule deer. Annual banquet of the Rock Springs Chapter of the Muley Fanatic Foundation, Rock Springs, Wyoming.
- Monteith, K. L.** 2014. Wyoming Range Mule Deer Project. Wyoming Range Mule Deer Initiative Public Input Process. Afton and Labarge Wyoming.
- Monteith, K. L.** 2013. Doing the right thing for Wyoming mule deer. Inaugural banquet of the Cheyenne Chapter of the Muley Fanatic Foundation, Cheyenne, Wyoming.
- Bowyer, R. T., J. G. Kie, D. K. Person, and **K. L. Monteith.** 2013. Metrics of predation: perils of predator-prey ratios. Department of Plant and Wildlife Sciences, Brigham Young University.
- Long, R. A., **K. L. Monteith,** V. C. Bleich, J. R. Heffelfinger, P. R. Krausman, and R. T. Bowyer. 2013. Effects of harvest, culture, and climate on trends in size of horn-like structures in trophy ungulates. Idaho Department of Fish and Game.
- Monteith, K. L.** 2012. Nutritional carrying capacity and factors limiting growth of mule deer in the Wyoming Range. Muley Fanatic Foundation, Rock Springs, Wyoming.
- Monteith, K. B., **K. L. Monteith,** L. E. Schmitz, J. A. Delger, and J. A. Jenks. 2012. Age-old myths of age and antlers. Dakota Archery Club, Miller, South Dakota.
- Monteith, K. B., **K. L. Monteith,** L. E. Schmitz, J. A. Delger, and J. A. Jenks. 2012. Age-old myths of age and antlers. Beacon Hill Rifle and Pistol Club, Brookings, South Dakota.
- Monteith, K. L.,** R. A. Long, V. C. Bleich, J. R. Heffelfinger, P. R. Krausman, and R. T. Bowyer. 2011. Size of horn-like structures of trophy ungulates: effects of climate, culture, or harvest? Annual meeting of the Boone and Crockett Club Records Committee.
- R. T. Bowyer, J. G. Kie, D. K. Person, and **K. L. Monteith.** 2011. Metrics of predation: perils of predator-prey ratios. Annual Managers Meeting, Utah Division of Wildlife, Woodruff, Utah.
- Monteith, K. B., **K. L. Monteith,** J. A. Delger, L. E. Schmitz, J. T. Kanta, and J. A. Jenks. 2011. Effect of age and region on antler growth and development of

- white-tailed deer in South Dakota. South Dakota Taxidermy Association, Huron, South Dakota.
- Monteith, K. B., **K. L. Monteith**, L. E. Schmitz, J. A. Delger, and J. A. Jenks. 2011. Growth and development of white-tailed deer in eastern South Dakota. Southeast Regional Chapter of the Quality Deer Management Association, Humboldt, South Dakota.
- Monteith, K. B., **K. L. Monteith**, and J. A. Jenks. 2010. The suppressor effect: dissolution of a critical reproductive strategy? Southeast Regional Chapter of the Quality Deer Management Association, Humboldt, South Dakota .
- Monteith, K. B., **K. L. Monteith**, L. E. Schmitz, J. A. Delger, and J. A. Jenks. 2010. Age-old myths of age and antlers. South Dakota Taxidermy Association, Huron, South Dakota.
- Monteith, K. B., **K. L. Monteith**, L. E. Schmitz, J. A. Delger, and J. A. Jenks. 2010. Age-old myths of age and antlers. Southeast Regional Chapter of the Quality Deer Management Association, Humboldt, South Dakota.
- Monteith, K. L.**, K. B. Monteith, L. E. Schmitz, J. A. Delger, and J. A. Jenks. 2010. Age-old myths of age and antlers. Intermountain Grain Elevator Processing Society, Jackpot, Nevada.
- Monteith, K. L.**, K. B. Monteith, L. E. Schmitz, J. A. Delger, and J. A. Jenks. 2010. Age-old myths of age and antlers. Blackfoot River Bowmen, Blackfoot, Idaho.
- Monteith, K. B., **K. L. Monteith**, L. E. Schmitz, J. A. Jenks, and J. A. Delger. 2009. Consequences of maternal effects on growth of South Dakota white-tailed deer. Southeast Regional Chapter of Quality Deer Management Association, Humboldt, South Dakota.
- Monteith, K. B., **K. L. Monteith**, L. E. Schmitz, J. A. Delger, and J. A. Jenks. 2009. Growth and development of white-tailed deer in eastern South Dakota. Southeast Regional Chapter of the Quality Deer Management Association, Humboldt, South Dakota.
- Monteith, K. L.**, and T. R. Stephenson. 2008. Population dynamics of Sierra Nevada mule deer. California Deer Association, Bakersfield, California.
- Delger, J. A. and **K. L. Monteith**. 2008. White-tailed deer antler growth and aging. South Dakota Sportsman's Classic, Brookings, South Dakota.
- Monteith, K. L.**, and T. R. Stephenson. 2007. Population dynamics and reproductive ecology of Sierra Nevada mule deer. California Department of Fish and Game, Sacramento, California.
- Monteith, K. L.** 2006. Scoring, aging, and antler development of white-tailed deer. Brookings Wildlife Federation, Brookings, South Dakota.
- Monteith, K. L.**, L. E. Schmitz, J. A. Jenks, and R. T. Bowyer. 2005. Seasonal variation in forage intake of captive white-tailed deer: implications for management. South Dakota Department of Game, Fish and Parks, Watertown, South Dakota.
- Jenks, J. A., L. E. Schmitz, and **K. L. Monteith**. 2002. Evaluation of potential lure forages for minimizing winter depredation by deer in South Dakota. Minnesota Department of Natural Resources, Madelia, Minnesota.

### **Workshops presented**

Schmitz, L. E., **K. L. Monteith**, J. A. Delger, and K. L. Monteith. 2008. Chemical immobilization of deer. South Dakota Department of Game, Fish and Parks, Brookings, South Dakota.

Schmitz, L. E., **K. L. Monteith**, and J. A. Jenks. 2005. Chemical immobilization of deer. Northern Great Plains Workshop: Capturing, Marking, and/or Removal of Birds and Mammals, Brookings, South Dakota.

### **Workshops attended**

- Animal movements, spatial distributions, home range analysis, and resource selection. Dr. John Kie and Ryan Long. Idaho State University GIS Training and Research Center, Pocatello, Idaho, 16-19 July 2012.
- Flying in the wire and obstruction environment. Robert Feerst, Utilities Aviation Specialists, Hawthorne Inn, Sacramento, California, 8 September 2010.
- Program MARK Workshop. Dr. Gary White and Dr. Ken Burnham, Colorado State University, Fort Collins, Colorado, 31 May – 5 June 2009.
- Helicopter safety training. Mr. Steven Dejesus, Landells Aviation and California Department of Fish and Game. Bishop, California, 15-17 March 2009.
- Official Measurer Workshop, Boone and Crockett Club Record's of North American Big Game. Frenchtown, Montana, 31 May – 4 June 2008.
- Northern Great Plains Workshop: Capturing, Marking, and/or Removal of Birds and Mammals. Brookings Inn, Brookings, South Dakota, 17-19 August 2005.
- Helicopter net-gunning for safe capture of large mammals. Mr. Corey Gray, Coda Enterprises. Bishop, California, 13-15 November 2007.
- Advanced Wildlife Chemical Immobilization and Restraint Workshop, California Department of Fish and Game, Bridgeport, California, 23-24 May 2007.

### **Professional affiliations**

- The Wildlife Society, 2002-present
  - South Dakota Chapter of The Wildlife Society, 2002-2006
  - Idaho Chapter of The Wildlife Society, 2006-2011
  - Wyoming Chapter of The Wildlife Society, 2011-present
- Boone and Crockett Club, 2005-present
- American Society of Mammalogists, 2008-present
- Ecological Society of America, 2010-present

### **Professional service**

- Organizing committee for the 44th North American Moose Conference, Idaho State University, Pocatello, Idaho, 14-17 June 2009.
- Manuscript review: Journal of Mammalogy, Journal of Wildlife Management, Southwestern Naturalist, California Fish and Game, Wildlife Biology, Human-Wildlife Conflicts, Western North American Naturalist, Journal of Zoology, Current Zoology, Wildlife Research, Wildlife Biology in Practice, Journal of Animal Science, Wildlife Society Bulletin, Rangeland Ecology and Management,

Canadian Journal of Zoology, Journal of Animal Ecology, PLoS ONE, Oecologia, and Animal Behaviour.

- Associate Editor; The Prairie Naturalist, 2011–2016.
- Associate Editor; Journal of Mammalogy, 2014–present

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