

JONATHAN DERBRIDGE

Curriculum Vitae

November 2018

School of Natural Resources and the Environment
The University of Arizona
520-878-7903
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EDUCATION

- Ph.D. 2017 University of Arizona, Natural Resources: Wildlife Conservation and Management, School of Natural Resources and the Environment. Advisor: JL Koprowski.
- M.S. 2010 University of Montana, Wildlife Biology, College of Forestry and Conservation. Advisor: PR Krausman
- B.S. 2006 University of California, Berkeley, Conservation and Resources Studies, College of Natural Resources.

EMPLOYMENT

- 2018 Post-doctoral Fellow, University of Arizona, Advisor: L Lopez-Hoffman, School of Natural Resources and the Environment.

HONORS & AWARDS

- 2018 Outstanding Dissertation Award, School of Natural Resources and the Environment, University of Arizona.
- 2018 Meritorious Graduate Teaching Award, College of Agriculture and Life Sciences, University of Arizona.
- 2016 Roger Hungerford Outstanding Graduate Student Award, Arizona Chapter of The Wildlife Society.
- 2015 Outstanding Scholarly Achievement by a Graduate Student, School of Natural Resources and the Environment, University of Arizona.

PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

- 2019 **Derbridge, JJ**, JL Koprowski. Experimental removals reveal dietary niche partitioning facilitates coexistence between native and introduced species. 2019. *Ecology & Evolution*. doi.org/10.1002/ece3.5036

- 2017 Merkle, JA, JL Polfus, **JJ Derbridge**, KS Heinemeyer. 2017. Dietary niche-partitioning among black bears, grizzly bears and wolves in a multi-prey ecosystem. *Canadian Journal of Zoology* 95:663-673. doi.org/10.1139/cjz-2016-0258
- 2016 Jo, Y, **JJ Derbridge**, JT Baccus. 2016. History and current status of invasive nutria and muskrat in Korea. *Wetlands* 37:363-369. doi.org/10.1007/s1315
- 2015 **Derbridge, JJ**, EE Posthumus, HL Chen, JL Koprowski. 2015. Solenodon paradoxus (Soricomorpha: Solenodontidae). *Mammalian Species* 47: 100-106. doi.org/10.1093/mspecies/sev010
- 2015 **Derbridge, JJ**, JA Merkle, ME Bucci, P Callahan, JL Koprowski, PR Krausman. 2015. Experimentally derived $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ discrimination factors for gray wolves and the impact of prior information in Bayesian mixing models. *PLOS One*. doi.org/10.1371/journal.pone.0119940
- 2012 **Derbridge, JJ**, PR Krausman, CT Darimont. 2012. Using stable isotope mixing models to estimate wolf diet in a multi-prey ecosystem. *Journal of Wildlife Management* 76:1277-1289. doi.org/10.1002/jwmg.359
- 2011 Merkle, JM, **JJ Derbridge**, PR Krausman. 2011. Using stable isotope analysis to quantify anthropogenic foraging in black bears. *Human-Wildlife Interactions* 5:159-167.

BOOK CHAPTERS

- 2016 **Derbridge, JJ**, HW Pepper, JL Koprowski. 2016. Economic damage by invasive grey squirrels in Europe. In *The Grey Squirrel: Ecology and Management of an Invasive Species in Europe*, CM Shuttleworth, PW Lurz, J Gurnell (eds) pp 135-191. European Squirrel Initiative, UK.
- 2011 Krausman, PR, SM Smith, **JJ Derbridge**, JA Merkle. 2011. Suburban and exurban influences on wildlife and fish. In *The Cumulative Effects of Suburban and Exurban Influences on Wildlife*, PR Krausman, L Harris (eds) pp 135-191. Taylor Francis Group, London.

REPORTS NOT PEER-REVIEWED

- 2016 **Derbridge, JJ**, JL Koprowski. 2016. Potential resource competition between introduced Abert's squirrels and endangered Mount Graham red squirrels. Arizona Game and Fish Department, Phoenix, Arizona.
- 2008 Krausman, PR, SM Smith, **JJ Derbridge**, JA Merkle. 2008. Suburban and exurban influences on wildlife and fish. FWP Project 2801. Wildlife Division, Montana Fish, Wildlife & Parks, Helena, Montana.

WORK IN PROGRESS

PEER-REVIEWED IN REVISION

Derbridge, JJ, AD Burnett, PK Chow, JL Koprowski. Unfamiliarity breeds contempt: territorial behavior varies among isolated populations in natural and invasive interactions. Submitted to *Behavioral Ecology*.

López-Hoffman, L, AM Lien, ALS Swann, X Feng, T Huang, DD Breshears, **JJ Derbridge**, E Baldwin, MM Laguë, MM Núñez-Regueiro & J Soto. Where forest loss matters for agriculture:

identifying the hidden economic telecouplings caused by ecoclimate teleconnections. Submitted to *Nature Climate Change*.

Peer-reviewed In Preparation (papers with full drafts)

Derbridge, JJ, JL Koprowski. The roles of food, population density, and introduced species in determining space use dynamics of an endangered territorial mammal. Prepared for *Journal of Animal Ecology*.

CONFERENCES & SCHOLARLY PRESENTATIONS

SYMPOSIA ORGANIZED

- 2018 Grassroots Community Engagement: a Critical Tool for Global Wildlife Conservation. 25th Annual Conference of The Wildlife Society Annual Conference 2018. Cleveland, OH. Co-organized with MJ Merrick.
- 2017 Connecting Wildlife & Science: Borderlands and Beyond. 24th Annual Conference of The Wildlife Society Annual Conference 2017. Albuquerque, NM. Co-organized with MJ Merrick and D Christianson.
- 2015 A World of Opportunities and Challenges: Graduate Students Seeking International Collaboration and Education in Wildlife Ecology and Conservation. 5th International Wildlife Management Congress. July 26-30 2015. Sapporo, Japan. Co-organized with MJ Merrick and HL Chen.

INVITED SEMINARS AND PRESENTATIONS

- 2018 **Derbridge JJ**, JL Koprowski. Experimental removals reveal dietary niche partitioning facilitates coexistence between ecologically similar native and introduced species. Mt. Graham Red Squirrel: a Study in Extinction Prevention Symposium, Madrean Conference 2018, Tucson, Arizona.
- 2016 Malpass, J, **JJ Derbridge**. Millennial is not a dirty word. Women and Minorities in Wildlife Symposium, 23rd Annual Conference of The Wildlife Society, October 15-19, 2016, Raleigh, North Carolina.
- 2015 **Derbridge, JJ**. Rewilding Mars! IGNITE Session, 22nd Annual Conference of The Wildlife Society, October 17-21, Winnipeg, Canada.
- 2013 **Derbridge, JJ**. Impacts of introduced Abert's squirrels: subtlety matters. Symposium on Indirect Effects of Invasive Species, 20th Annual Conference of The Wildlife Society, October 5-9, Milwaukee, Wisconsin.

CONTRIBUTED CONFERENCE PRESENTATIONS

- 2018 **Derbridge JJ**, JL Koprowski. Ecology and conservation of territorial species under invasion. Joint Annual Meeting of The Wildlife Society and American Fisheries Society of Arizona and New Mexico, February 3-5, 2018, Flagstaff, Arizona.
- 2016 **Derbridge, JJ**, JL Koprowski. Behavioral character displacement and territoriality of an isolated endangered species under invasion. 23rd Annual Conference of The Wildlife Society, October 2016, Raleigh, North Carolina.
- 2016 **Derbridge JJ**, JL Koprowski. Variable interactions between tree squirrel species in

- areas of natural and anthropogenic overlap. Joint Annual Meeting of The Wildlife Society and American Fisheries Society of Arizona and New Mexico, February 4-6, 2016, Flagstaff, Arizona.
- 2015 **Derbridge, JJ**, JL Koprowski. The roles of diet and behavior between territorial endangered species and a non-territorial invader in syntopy. 22nd Annual Conference of The Wildlife Society, October 2015, Winnipeg, Canada.
- 2015 **Derbridge, JJ**, JL Koprowski. Effects of experimental removals of an invasive competitor on space use of an endangered tree squirrel. 5th International Wildlife Management Congress, 2015, Sapporo, Japan.
- 2015 **Derbridge, JJ**, JL Koprowski. Effects of experimental removals of an invasive competitor on space use of an endangered tree squirrel. 7th International Colloquium on Arboreal Squirrels, 2015, Helsinki, Finland.
- 2015 **Derbridge, JJ**, JA Merkle, ME Bucci, P Callahan, JL Koprowski, PR Krausman. Experimentally derived $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ discrimination factors for gray wolves and the impact of prior information in Bayesian mixing models. Joint Annual Meeting of The Wildlife Society and American Fisheries Society of Arizona and New Mexico, 2015, Las Cruces, New Mexico.
- 2014 **Derbridge, JJ**, JA Merkle, ME Bucci, P Callahan, JL Koprowski, PR Krausman. Getting your priors in order: a *sine qua non* of Bayesian stable isotope mixing models in conservation research. 21st Annual Conference of The Wildlife Society, October 25-30, 2014, Pittsburgh, Pennsylvania.
- 2014 **Derbridge, JJ**, JL Koprowski. Living in syntopy: the consequences for an endangered tree squirrel under occupation from an ecologically similar invader. North American Congress for Conservation Biology (poster session), July 13-16, 2014, Missoula, Montana.
- 2014 **Derbridge, JJ**, JL Koprowski. Living in syntopy: the consequences for an endangered tree squirrel under occupation from an ecologically similar invader. American Society of Mammalogists Annual Conference, June 6-10, 2014, Oklahoma City, Oklahoma.
- 2014 **Derbridge, JJ**, JL Koprowski. Living in syntopy: the consequences for an endangered tree squirrel under occupation from an ecologically similar invader. Joint Annual Meeting of The Wildlife Society and American Fisheries Society of Arizona and New Mexico, February 6-8, 2014, Pinetop, Arizona.
- 2013 **Derbridge, JJ**, JL Koprowski. Using experimental removals and stable isotope analysis of diet to determine mechanisms of competition between an endangered tree squirrel and a non-native competitor. Joint Annual Meeting of The Wildlife Society and American Fisheries Society of Arizona and New Mexico (poster session), February 7-9, 2013, Albuquerque, New Mexico.
- 2012 **Derbridge, JJ**, JL Koprowski. Using experimental removals and stable isotope analysis of diet to determine mechanisms of competition between an endangered tree squirrel and a non-native competitor. 19th Annual Conference of The Wildlife Society October 13-18, 2012, Portland, Oregon.
- 2012 **Derbridge, JJ**, JL Koprowski. Impacts of introduced Abert's squirrels on the endangered Mount Graham red squirrel. 6th International Colloquium on Arboreal Squirrels, February 4-8, 2012, Kyoto, Japan.
- 2011 **Derbridge, JJ**, JL Koprowski. Does larderhoarding facilitate competition between endangered Mount Graham red squirrels and introduced Abert's squirrels? 18th Annual Conference of The Wildlife Society (poster session), November 22-25, Waikoloa, Hawaii.

- 2011 **Derbridge, JJ**, PR Krausman, CT Darimont. Stable isotope analysis of summer wolf diet in northwestern Montana. Montana Chapter of The Wildlife Society Annual Meeting, February 22-25, 2011, Missoula, Montana.
- 2011 **Derbridge, JJ**, PR Krausman, CT Darimont. Stable isotope analysis of summer wolf diet in northwestern Montana. Joint Annual Meeting of The Wildlife Society and American Fisheries Society of Arizona and New Mexico, February 10-12, 2011, Pinetop, Arizona.
- 2010 **Derbridge, JJ**, PR Krausman, CT Darimont. Scat and stable isotope analysis of summer wolf diet. 17th Annual Conference of The Wildlife Society October 2-6, 2010, Snowbird, Utah.

RESEARCH & TRAVEL GRANTS

- 2018 Arizona Chapter of The Wildlife Society Continuing Education Grant
- 2016 University of Arizona Graduate and Professional Student Council Travel Grant
- 2015 T & E Conservation Biology Award
- 2015 The Wildlife Society Student Travel Award
- 2015 International Wildlife Management Working Group of The Wildlife Society Student Travel Award
- 2015 University of Arizona Graduate and Professional Student Council Travel Grant
- 2015 Arizona Chapter of The Wildlife Society Continuing Education Grant
- 2014 T & E Conservation Biology Award
- 2014 University of Arizona Institute of the Environment Travel Award
- 2014 University of Arizona Graduate and Professional Student Council Travel Grant
- 2012 American Society of Mammalogists Grants in Aid of Research Award
- 2012 University of Arizona Institute of the Environment Travel Award
- 2012 University of Arizona Graduate and Professional Student Council Travel Grant
- 2011 University of Arizona Institute of the Environment Travel Award

NATURAL RESOURCES EMPLOYMENT

- 2006 Montana Fish, Wildlife & Parks Wolf Program – Technician
- 2005 Montana Fish, Wildlife & Parks Wolf Program – Summer Technician
- 2004 Nez Perce Wolf Recovery Project, Idaho – Summer Technician
- 2003 USGS Minnesota Wolf Project – Summer Technician

TEACHING EXPERIENCE (*s* = sole instructor; *d* = design; *g* = grading; *l* = lecture; *f* = field)

University of Arizona

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| 2017 | RNR 200 | Conservation of Natural Environments (online) | <i>s, d, g, l</i> |
| 2016-2017 | RNR 200 | Conservation of Natural Environments | <i>d, g</i> |
| 2014 | WFSC 447 | Wildlife Conservation Behavior | <i>g, l</i> |
| 2013 | ECOL 182L | Adaptive Evolution and Biodiversity (2 lab sections) | <i>s, d, g, l, f</i> |
| 2012-2013 | RNR 160D1 | Wildlife Conservation and American Culture | <i>g, l</i> |
| 2011 | ECOL 302 | Ecology (2 field lab sections) | <i>s, d, g, l, f</i> |

University of Montana

2009 WILD 480 The Upshot: Applied Wildlife Management *g, f*

University of California, Berkeley

2006 IB 104 Natural History of Vertebrates (undergrad TA) *d, g, f*

SERVICE & OUTREACH

SERVICE TO PROFESSION

2009-present Journal Peer Review Canadian Journal of Zoology; Ecological Applications; Ecology; Ecosphere; European Journal of Wildlife Management; Human Wildlife Dimensions; Isotopes in Environmental and Health Studies; Journal of Wildlife Management; PLOS One; Rapid Communications in Mass Spectrometry; Wildlife Biology.

2016–present Past Chair International Wildlife Management Working Group of The Wildlife Society.

2016-present Board Member Ethnic and Gender Diversity Working Group of The Wildlife Society

2011 Member Leadership Institute of The Wildlife Society

2009-2010 Chair Student Development Working Group of The Wildlife Society

UNIVERSITY SERVICE

2018 Guest Lecturer Natural Resource Policy and Law RNR 480/580

2015-present Guest Scientist Environmental Journalism JOUR 465/565

2017 Guest Scientist Science Journalism JOUR 472/572

2014 Guest Lecturer Wildlife Conservation Behavior WFSC 447/547

2012-2013 Guest Lecturer Wildlife Conservation and American Culture RNR 160D1

DEPARTMENTAL SERVICE

2016 Compiler Academic Program Review for School of Natural Resources and the Environment.

COMMUNITY OUTREACH

2015-present Presenter Wildlife Conservation Issues sessions, Osher Lifelong Learning Institute

DIVERSITY

2018-present	Member	Inclusive Excellence Committee, School of Natural Resources and the Environment, University of Arizona
2018	Certified Participant	Diversity in the Classroom Workshop Series (certification program), Office of Faculty Affairs and Office of Diversity and Inclusive Excellence, University of Arizona
2016-present	Board Member	Ethnic and Gender Diversity Working Group of The Wildlife Society
2016	Judge	Ethnic and Gender Diversity Working Group of The Wildlife Society Diversity Award
2015	Invited talk	Women and Minorities in Wildlife Symposium, Annual Conference of The Wildlife Society

PROFESSIONAL MEMBERSHIPS

2008-present	The Wildlife Society
2010-present	Society for Conservation Biology
2010-present	American Society of Mammalogists