

**DANIEL H. THORNTON**

***Curriculum Vitae***

Washington State University, School of the Environment  
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**PROFESSIONAL APPOINTMENTS**

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<b>Washington State University, Pullman, WA</b> Assistant Professor	Aug 2016-present
<b>Washington State University, Pullman, WA</b> Clinical Assistant Professor	Aug 2013 – July 2016
<b>Trent University, Peterborough, Canada</b> Adjunct professor	July 2013 - present
<b>Trent University, Peterborough, Canada</b> Post-doctoral research fellow, Department of Biology	May 2011 - July 2013
<b>Southwestern University, Georgetown, TX</b> Mellon post-doctoral fellow in Environmental Studies	Aug 2010 - May 2011

**EDUCATION**

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<b>University of Florida, Gainesville</b> Ph.D. in Wildlife Ecology and Conservation Dissertation: <i>The influence of species traits and landscape attributes on the response of mid- and large-sized neotropical mammals to forest fragmentation</i>	2010
<b>University of Florida, Gainesville</b> M.S. in Wildlife Ecology and Conservation Thesis: <i>Ecological separation within newly sympatric populations of coyotes and bobcats in south-central Florida</i>	2003
<b>Carleton College, Northfield</b> B.A., <i>magna cum laude</i> , Geology	1998

**PUBLICATIONS (PEER-REVIEWED) \*\*=senior authorship on publication, <sup>1</sup>=supervised graduate student, <sup>2</sup>= supervised undergraduate student**

*Google Scholar citations in brackets [citations in 2016/total citations]*

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Accepted

Otis, J-A, **Thornton, D.H.**, Rutledge, L, and D.L. Murray. (*accepted*). Ecological niche differentiation across a wolf-coyote hybrid zone in eastern North America. *Diversity and Distributions*. [0/0]

King<sup>2</sup>, T.W., Salom-Perez, R., Shipley, L.A., Quigley, H.B., and **D.H. Thornton\*\***. (*accepted*). Ocelot latrines: communication centers for Neotropical Mammalia. *Journal of Mammalogy*. [0/0]

**Thornton, D.H.** and M.J.L. Peers (*accepted*). Chapter 8. Species Distribution Modeling. Population Ecology in Practice (Murray, D.L. & Chapron, G., eds). Wiley-Blackwell, London. [0/0]

Murray, D.L., Bastille-Rousseau, G., Hornseth, M., Row, J. F , and **D.H. Thornton**. (*accepted*) Chapter 3. From research hypothesis to model selection: A strategy toward robust inference in population ecology. Population Ecology in Practice (Murray, D.L. & Chapron, G., eds). Wiley-Blackwell, London. [0/0]

Murray, D.L., Peers, M.J.L., Majchrzak, Y.N., Wehtje, M., Ferreira, C., Pickles, R.S.A., Row, J.R., and **D.H. Thornton**. (*accepted*). Continental divide: Climate-mediated fragmentation and biodiversity loss in the boreal forest. PlosOne.

#### 2017

Feldman, R. Peers, M.J., Pickles, R.S.A., **Thornton, D.**, and D.L. Murray. 2017. Climate driven niche divergence among host species affects range-wide patterns of parasitism. *Global Ecology and Conservation* 9:1-10. [0/0]

#### 2016

**Thornton, D.H.**, Zeller, K., Rondinini, C., Boitani, L., Crooks, K., Burdett, C., Rabinowitz, A., and H. Quigley. 2016. Assessing the umbrella value of a range-wide conservation network for jaguars (*Panthera onca*). *Ecological Applications* 26:1112-1124. [5/5]

Olsoy<sup>1</sup>, P.J., Zeller, K.A., Hicke, J.A., Quigley, H.B., Rabinowitz, A.R., and **D.H. Thornton\*\***. 2016. Quantifying the effects of deforestation and fragmentation on a range-wide conservation plan for jaguars. *Biological Conservation* **203**:8-16. [0/0]

Peers<sup>1</sup>, M.J., **Thornton, D.H.**, Majchrzak, Y.N., Bastille-Rousseau, G., and Murray, D.L. 2016. De-extinction potential under climate change: extensive mismatch between historic and future habitat suitability for three candidate birds. *Biological Conservation* 197:164-170. [1/1]

#### 2015

Guillaumet, A., Bowman, J., **Thornton, D.H.**, and D.L. Murray. 2015. The influence of coyote on Canada lynx populations assessed at two different spatial scales. *Community Ecology* 16:135-146. [0/0]

**Thornton, D.H.**, and Pekins, C. 2015. Spatially-explicit capture recapture analysis of bobcat density in central Texas: implications for mesocarnivore monitoring. *Wildlife Research* 42:394-404. [0/0]

Murray, D.L., Majchrzak, Y.N., Peers, M.J.L., Wehtje, M., Ferreira, C., Pickles, R.S.A., Row, J.R., and **D.H. Thornton**. 2015. Potential pitfalls of private initiatives in conservation planning: A case study from Canada's boreal forest. *Biological Conservation* 192: 174-180. [2/3]

Wang, Y., **Thornton, D.H.**, Wang, S., Ding, P. 2015. Ecological correlates of vulnerability to fragmentation in forest birds on inundated subtropical land-bridge islands. *Biological Conservation* 191:251-257. [0/2]

#### 2014

**Thornton, D.H.**, and D.L. Murray. 2014. Influence of hybridization on niche shifts in expanding coyote populations. *Diversity and Distributions* 20: 1355-1364. [0/2]

Row, J.R., Wilson, P.J., Gomez, C, Koen, E.L., Bowman, J., **Thornton, D.**, and D.L. Murray. 2014. The subtle role of climate change on population genetic structure in Canada lynx. *Global Change Biology* 20: 2076-2086. [2/6]

**Thornton, D.H.**, and R. Fletcher. 2014. Body size and spatial scales in avian response to landscape structure: a meta-analysis. *Ecography* 37:454-463. [3/11]

Peers<sup>2</sup>, M.J.L., Wehtje, M., **Thornton, D.H.** and D.L. Murray. 2014. Prey switching as a means of enhancing persistence in predators at the southern range edge. *Global Change Biology* 20:1126-1135. [4/10]

#### 2013

Peers<sup>2</sup>, M.J.L., **Thornton, D.H.** and D.L. Murray. 2013. Evidence for large-scale effects of competition: niche displacement in carnivores. *Proceedings of the Royal Society B* 280: 20132495. [3/19]

Pickles, R.S.A., **Thornton, D.H.**, Marques<sup>1</sup>, A., D. L. Murray. 2013. Predicting shifts in parasite distribution with climate change: a multitrophic level approach. *Global Change Biology* 19: 2645-2654. [6/24]

**Thornton, D.H.**, A.J. Wirsing, J.D. Roth, and D.L. Murray 2013. Habitat quality and population density drive occupancy dynamics of snowshoe hare in variegated landscapes. *Ecography* 36: 610-621. [3/8]

#### 2012

**Thornton, D.H.** A.J. Wirsing, J.D. Roth, and D.L. Murray. 2012. Complex effects of harvest and site preparation on snowshoe hare abundance on a patchy forest landscape. *Forest Ecology and Management* 280: 132-139. [1/7]

**Thornton, D.H.**, L.C. Branch, and M.E. Sunkvist. 2012. Response of large galliforms and tinamous (Cracidae, Phasianidae, Tinamidae) to habitat loss and fragmentation in northern Guatemala. *Oryx* 46: 567-576. [3/9]

Peers<sup>1</sup>, M.J.L., **Thornton, D.H.**, and D.L. Murray. 2012. Reconsidering the specialist-generalist paradigm in niche breadth dynamics: Canada lynx and bobcats. *PLoSOne*. 7(12): e51488. doi:10.1371/journal.pone.0051488 [7/26]

#### 2011

**Thornton, D.H.**, L.C. Branch, and M.E. Sunkvist. 2011. The relative influence of habitat loss and fragmentation: Do tropical mammals meet the temperate paradigm? *Ecological Applications* 21(6):2324-2333. [16/40]

**Thornton, D.H.**, L.C. Branch, and M.E. Sunquist. 2011. Passive sampling effects and landscape location alter associations between species traits and response to fragmentation. *Ecological Applications*: 21(3):817-829. [5/30]

**Thornton, D.H.**, L.C. Branch, and M.E. Sunquist. 2011. The influence of landscape, patch, and within-patch factors on species presence and abundance: a review of focal patch studies. *Landscape Ecology*: 26:7-18. [12/69]

#### Pre-2011

**Thornton, D.H.**, M.E. Sunquist, and M.B. Main. 2004. Ecological separation within newly sympatric populations of coyotes and bobcats in southern Florida. *Journal of Mammalogy* 85(5):973-982. [1/54]

#### **PUBLICATIONS (SUBMITTED)**

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**Thornton, D.H.**, Wirsing, A.W., Lopez-Gonzalez, C.L., Squires, J.R., Fisher, S., Larsen, K.W., Peatt, A., Scrafford, M.A., Moen, R.A., Scully, A.E., King, T.W., and D.L. Murray. (*submitted*). Asymmetric cross-border protection of peripheral transboundary species. *Nature Communications*.

Scully<sup>1</sup>, A.E., Fisher, S., Miller, D.A.W., and **D.H. Thornton**\*\* (*submitted*). Influence of biotic interactions on Canada lynx (*Lynx canadensis*) distribution at their southern range edge. *Biological Conservation*.

Camp, M., Shipley, L., Johnson, T., Olsoy, P., Crowell, M., Forbey, J., Rachlow, J., and **D.H. Thornton** (*submitted*). The balancing act of foraging: mammalian herbivores trade-off multiple risks when selecting food patches. *Oecologia*.

Hidalgo-Mihart, M.G., Jesús de la Cruz, A., Juárez-Lopez, R., Contreras-Moreno, F.M., Bravata de la Cruz, C., Hernández-Lara, C., Pérez-Solano, L.A., Kohler González, J.M., Friedeberg, D., and **D.H. Thornton**. (*submitted*). Medium and large –sized mammal inventory in the wetlands of Laguna de Terminos and Pantanos de Centla, México. *Checklist: Journal of Biodiversity Data*.

Murray, D. Peers, M., Bastille-Rousseau, G., **Thornton, D.H.**, and Majchrzak, Y. (*submitted*). Evidence-based recovery planning is a necessary next step for red wolf conservation. *Conservation Letters*.

Juárez-López, R., Pérez-López, M., Bravata-de la Cruz, Y., Jesus-de la Cruz, J., Contreras-Moreno, F.M., **Thornton, D.**, Hidalgo-Mihart, M.G. (*submitted*). Range extension of the northern naked-tailed armadillo (*Cabassous centralis*) in southern Mexico. *Western North American Naturalist*.

#### **GRANTS, AWARDS, AND FELLOWSHIPS \*(role is PI unless otherwise noted)**

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##### Awarded in 2016

- USFWS Wildlife Without Borders Central America (\$52,668)  
*Multi-organizational collaboration to integrate data and survey methods for large mammal indicator species at the Mesoamerica regional scale*

- Bureau of Land Management Cost Share Program renewal (\$9,900)  
*Characterizing Sage Grouse Movement Patterns*
- Seattle City Light (\$57,448)  
*Assessment of the status and distribution of Canada lynx in Washington: large-scale camera surveys in the Okanogan*
- USFWS Restoration and Recovery Program (\$19,192)  
*Large-scale remote camera surveys for threatened Canada lynx: a tool to evaluate population status, identify threats, and inform long-term monitoring and recovery in Washington*
- US Fish and Wildlife (renewal: \$45,000)  
*Comparing Population Vital Rates from Translocated and Resident Greater Sage-Grouse (Centrocercus urophasianus)*
- Wildlife Conservation Society (Fellowship for L. Perera: \$36,000)
- Conservation Northwest renewal (\$10,000)  
*Canada lynx distribution and connectivity surveys in Northeastern Washington*

#### Awarded in 2015

- Washington Fish and Game ALEA grant program (\$21,529)  
*Climate Change and Canada Lynx in the Cascades: Building a Better Understanding of the Range Dynamics of a Threatened Species*
- US Fish and Wildlife (\$27,025)  
*Comparing Population Vital Rates from Translocated and Resident Greater Sage-Grouse (Centrocercus urophasianus)*
- Bureau of Land Management Cost Share Program (\$24,206)  
*Characterizing Sage Grouse Movement Patterns*
- Seattle City Light (\$26,234)  
*Climate Change and Canada Lynx in the Cascades: Building a Better Understanding of the Range Dynamics of a Threatened Species*
- LCAO Jaguar Research Grant renewal (\$12,000)  
*Validation of the Lacandon Corridor in southeastern Mexico: testing methodologies for large-scale jaguar surveys within corridor landscapes*

#### Awarded in 2014

- National Science Foundation – Catalyzing New International Collaborations (\$47,255)  
*US-Canada Planning Visit: Building a Transboundary Research Program to Understand the Influence of Climate Change on Southern Range Limits*
- WSU new faculty seed grant (\$26,952)

*Transboundary Research on Response of Southern Populations to Climate Change*

- Panthera (\$17,000)  
*Range wide carnivore conservation: improving scientific foundations of Panthera's jaguar program*
- Conservation Northwest (\$10,000)  
*Canada lynx distribution and connectivity surveys in Northeastern Washington*
- WSU School of Environment competitive RA-ship competition (\$84,000)  
*Two years of funding for a research assistantship (support for PhD student Peter Olsoy)*
- Snohomish County Public Utilities District (\$49,055)  
*Wildlife use of snags in Everett, Washington*
- WSU Undergraduate summer research minigrant (\$3,000)  
*Summer funding for undergraduate research (support for Travis King – ocelot density estimation)*
- American Society of Mammalogists travel award for early career scientists (\$500)
- LCAO Jaguar Research Grant (\$12,000)  
*Validation of the Lacandon Corridor in southeastern Mexico: testing methodologies for large-scale jaguar surveys within corridor landscapes*

Awarded in 2013

- Panthera (\$17,000)  
*Range wide carnivore conservation: improving scientific foundations of Panthera's jaguar program*
- La Pampa Department of Natural Resources (collaborator, \$50,000)  
*Assessing and improving large-scale interview-based data for ecology and conservation: agricultural surveys from La Pampa, Argentina*

Awarded Pre-2013

- Fort Hood Natural Resources Management Branch (\$40,000)  
*Investigation of bobcat distribution and abundance across military activity gradients*
- National Science Foundation Doctoral Dissertation Enhancement Grant (\$14970)  
PIs: Thornton and Branch  
*Local Versus Landscape Factors as Determinants of Neotropical Mammal Distributions in Heterogeneous Landscapes*
- American Society of Mammalogist's Grants-in-Aid award. (\$1500)  
*Local Versus Landscape Factors as Determinants of Neotropical Mammal Distributions in Heterogeneous Landscapes*
- Presidential Fellowship, University of Florida. (\$72,000)

- Graduate Student Council Travel Grant, University of Florida. (\$250)
- Wildlife Conservation Society – Guatemala small grants program. (\$1500)
- IDEA Wild equipment grant. (\$500)
- IGERT Working Forests in the Tropics small grants program. (\$3000)
- Jennings Scholarship, University of Florida. (\$1500)
- Florida Fish and Wildlife Conservation Commission. (\$4200)
- Jennings Scholarship, University of Florida. (\$1000)

#### **GRANTS, AWARDS, AND FELLOWSHIPS (submitted)**

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- NSF Macrosystems Program (WSU portion of grant = \$870,318)  
*Collaborative Proposal: MSB-FRAS: A rangewide assessment of drivers of spatial variation in snowshoe hare population dynamics and herbivory*
- Department of Defense SERDP program (Role is Co-PI; Fremier is PI; \$1,700,000)  
*Preproposal: Building a strategic, cost-effective approach to conserving threatened and endangered species by prioritizing riparian corridors*
- Safari Club International (\$49,956)  
*Coordinating Across Borders: Transboundary Research to Inform Canada Lynx and Bobcat Management and Sustainable Harvest*
- National Geographic Conservation Trust Grant (\$21,251)  
*Coordinating Across Borders: Applying Innovative Techniques and Research to Inform Canada Lynx Conservation in Washington and British Columbia*
- Furbearers Unlimited (\$9,954)  
*Coordinating Across Borders: Transboundary Research to Inform Canada Lynx and Bobcat Management and Sustainable Harvest*
- WSU International Research Travel Award (\$3,355)  
*Collaborative International Research to Inform Large Mammal Monitoring in the Yucatán Peninsula.*

#### **TEACHING AND MENTORING EXPERIENCE**

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##### **Instruction (WSU):**

2016: Spring term: International Wildlife Conservation (3 credit undergraduate course); NATRS 204 (2 credit undergraduate course); Fall term: Species distribution modeling (3 credit graduate course)

\*International Wildlife Conservation was a new course preparation.

Prior to 2013-2015:

Since coming to WSU in August of 2013, I have taught 3 classes per year. I have developed two new classes for the SoE curriculum, which includes a 3 credit graduate class (*Species Distribution Modeling*) and a 3 credit advanced undergraduate class (*International Wildlife Conservation*). I have also taught two existing courses, which includes a 2 credit lower division undergraduate class (*Measurements and Computers in Natural Resources*) and an online 100 level course (*Introduction to Environmental Sciences*).

Southwestern University, Georgetown (2010-2011)

- Instructor, 4 credit course (undergraduate), *Conservation Biology*
- Instructor, 4 credit course (undergraduate), *Biodiversity*

University of Florida, Gainesville (2007-2008)

- Instructor, 3 credit course *Perspectives in Wildlife Ecology and Conservation*
- Co-instructor, 3 credit course *Conservation Biology*

Mentoring:

Current graduate students (I currently supervise 2 PhD and 3 MS students)

- Primary advisor (PhD): Peter Olsoy; Research: Application of UAVs to habitat quality mapping, pygmy rabbit habitat selection at multiple scales, **Lucy Perera** Research: Jaguar ecology and conservation
- Primary advisor (MS): Landon Charlo; Research: Snag ecology, **Kyle Ebenhoch**; Research: Sage-grouse survival and movement, **Travis King**; Research: Lynx distribution modeling
- Current graduate committee member (PhD): Meghan Camp, Amanda Stahl, Allison Cramer
- Current graduate committee member (MS): Gabe Spence, Matt Smith, Izzie Tween, Jon Heale

Completed graduate students (I have supervised two MS student to thesis completion at WSU)

Fall 2016: Primary advisor (MS): Arthur Scully (WSU) Thesis: Climate mediated spatial and temporal segregation of sympatric felids at a range edge contact zone

Spring2015: Primary advisor (MS): Katie Van (WSU) Thesis: *Predicting future habitat suitability for the Balfouriana Pines in the face of climate change using species distribution modeling*. Graduated Spring 2015.

Graduate committee member for completed students:

2016: Coleen Kamoroff (WSU); Grant Glover (WSU); Laura Gelin (University of Florida)

2015: Lyndsay Welfelt (WSU); Steven Borrego (WSU); Ronit Amit (University of Florida); Josee-Anne Otis (Trent University)

2014: Michael Peers (Trent University),

#### **Undergraduate mentoring**

- Supervised McNair Diversity Scholar: Leandro Lessin (Fall 2016)
- Supervised undergraduate IGNITE students: Taylor Schaeffer (Spring and Fall 2016), Kathryn Sutherland (Fall 2015 and Spring 2016)
- Supervised undergraduate independent study: Justin Mays (Spring 2016), Travis King (Fall 2014), Jena Saito (Fall 2014), Travis King (Summer 2014), Chloe Burt (Spring 2014), Kathryn Sutherland (Fall 2015)
- Current mentor for undergraduate honor thesis: Sonja Bergerud (Spring 2016)
- Reader for undergraduate honors thesis: Travis King (Spring 2014)
- Supervised undergraduate senior thesis (completed): Michael Peers (Trent University), Kyle Yurkew (Trent University)
- Supervised lab volunteers: Taylor Schaeffer (2016), Erick Rockwood (2016), Riley Grey (2016), Nicole Waters, Alex Albert (2015)

#### **Graduate Student Special Recognition**

2017: Peter Olsoy (current PhD student) received the Richard R. and Constance M. Albrecht Fellowship

2016: Travis King (current MS student) received both a Fulbright Student Award and a 3-year NSF Fellowship for his research in my lab

#### **Undergraduate Student Special Recognition**

2016: Science News article on mentored undergraduate research in Journal of Mammalogy (Travis King)

**PRESENTATIONS \*\*=senior authorship on publication, <sup>1</sup>=supervised graduate student, <sup>2</sup>= supervised undergraduate student**

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#### 2016

**Thornton, D.H.**, Wirsing, A.W, and D.L. Murray. 2016. "Peripheral transboundary species: conflicting cross-border management may threaten a large number of peripheral species". North American Congress for Conservation Biology. July 17-20, Madison, WI.

**Thornton, D.H.**, King, T., and Scully, A.R. 2016. Invited presentation. "Large-scale lynx camera trapping in the Okanogan." WildLinks Annual Meeting, Nov. 2-3, Seattle, WA.

**Thornton, D.H.** 2016. Invited presentation. "Meta-analysis con trampas camaras: pecari y tapir". Symposium: White-lipped Peccary in MesoAmerica: Status, Threats, and Conservation Actions. The XX Mesoamerican Society for Biology and Conservation, August 22-26, Belize City, Belize.

**Thornton, D.H.** 2016. Invited presentation. "Meta-analysis con trampas camaras: pecari y tapir". Peccary Mapping Workshop. Hosted by the Wildlife Conservation Society, Feb 28th, Flores, Guatemala.

Arab, M.F., Villarreal, D., Branch, L.C., and **D.H. Thornton**. 2016 (poster). "Conflictos entre la Fauna Silvestre y el Ganado: Diferentes Percepciones sobre Pumas y Guanacos.". XII International Congress of Wildlife Management in the Amazon and Latin America. 8-12 August 2016. Quito-Ecuador.

- Gelin, M.L., Branch, L.C., **Thornton, D.H.**, Novaro, A.J., and Ruiz-Blanco, M. 2016 (poster). "Respuesta del puma a la migración estacional del guanaco en Argentina." XII International Congress of Wildlife Management in the Amazon and Latin America. 8-12 August 2016. Quito-Ecuador.
- Olsoy<sup>1</sup>, P.J., M. Atamian, J. Gallie, M.A. Schroeder, and **D.H. Thornton\*\***. 2016. "Characterizing movement patterns of resident and translocated greater sage-grouse in Washington through high-resolution GPS telemetry." 2016 Joint Partner Wildlife Conference. February 22-26, 2016. Coeur d'Alene, ID.
- Olsoy, P.J.<sup>1</sup>, Zeller, K.A., Hicke, J.A., Quigley, H.B., Rabinowitz, A.R., and **D.H. Thornton\*\***. 2016. Invited presentation. "Quantifying the effects of deforestation and fragmentation on a range-wide conservation plan for jaguars." Invited Seminar, University of Idaho, Department of Geography. September 28, 2016. Moscow, ID.
- Scully<sup>1</sup>, A., and **D.H. Thornton\*\***. 2016. Exploring efficacy of non-invasive spatially-explicit capture-recapture to estimate Canada lynx density in Washington. 2016 Joint Partner Wildlife Conference. February 22-26, 2016. Coeur d'Alene, ID
- Contreras Moreno, F.M., Reyna-Hurtado, R., **Thornton, D.H.**, Hidalgo-Mihart, M.G., Juarez-Lopez, R., and A. González Gallina. 2016. Abundancia de *Odocoileus virginianus* en el sureste de México. XIII Congreso Nacional de Mastozoología, Tuxtla, Chiapas.
- Shiple, L., Camp, M., Crowell, M., Olsoy, P, **Thornton, D.**, Forbey, J., Rachlow, J., and T. Johnson. 2016. Risky rabbits: evaluating tradeoffs in food and predation risks perceived by rabbits. World Lagomorph Conference, Turlock, CA. July 11-15, 2016.
- McMahon, L., Rachlow, J., Forbey, J., Shipley, L., Johnson, T., and **D. Thornton**. 2016 (poster). Evaluating performance of two GPS technologies to quantify space use by pygmy rabbits. World Lagomorph Conference, Turlock, CA, July 11-15, 2016.
- 2015
- Olsoy<sup>1</sup>, P.J., and **D.H. Thornton\*\***. 2015. "Characterizing movement patterns of sage-grouse through high-resolution GPS telemetry." Washington Sage-grouse Working Group Meeting. October 28-29, 2015. Moses Lake, WA.
- Olsoy, P.J.<sup>1</sup>, J.S. Forbey, J.L. Rachlow, M.A. Burgess, N.F. Glenn, L.A. Shipley, and **D.H. Thornton\*\***. 2015. "Mapping herbivore habitat quality with high-resolution imagery from unmanned aerial systems." Ecological Society of America Annual Meeting. August 9-14, 2015. Baltimore, MD.
- Olsoy, P.J., J.S. Forbey, J.L. Rachlow, J.D. Nobler, M.A. Burgess, N.F. Glenn, L.A. Shipley, and **D.H. Thornton**. 2015. "Mapping fearscape for grouse: high-resolution assessment of concealment from predators using remote sensing." 13<sup>th</sup> International Grouse Symposium. 4-7 September 2015. Reykjavik, Iceland.
- Thornton, D.H.**, Hidalgo-Mihart, M. and Lopez-Gonzalez, C. 2015. Symposium organizers: "Jaguars and Corridors in Mesoamerica: What do we know and where do we go from here" at the XIV

meeting of the Society for Mesoamerican Biology and Conservation in Villahermosa, Mexico.  
Aug 25-30, 2015

**Thornton, D.H.**, Olsoy, P., Zeller, K., Hicke, J, and Quigley, H. 2015. Forest loss in jaguar corridors and JCU: implications for network connectivity. XIV meeting of the Society for Mesoamerican Biology and Conservation in Villahermosa, Mexico. Aug 25-30, 2015

**Thornton, DH.** 2015. Spatial ecology of large mammals: implications for conservation in the face of global change. Invited seminar, University of Florida, Gainesville, FL.

**Thornton, DH.** 2015. Mammals in space: using spatial ecology to inform management and conservation of mammals. Invited seminar, University of Idaho, Moscow, ID.

#### 2014

**Thornton, DH.** 2014. *Mammal spatial ecology and conservation*. Invited seminar, University Juárez Autónoma de Tabasco, Villahermosa, MX.

Peers, MJL, **Thornton, D.H.**, Pearce, E., Murray, D.L. 2014. *Are southern range translocation likely viable under climate change?* Canadian Society for Ecology and Evolution Annual Meeting, Montreal, Canada.

Peers, MLJ, Wehtje, M., **Thornton, D.H.**, Murray, D.L. 2014. *Climate change effects on Canada lynx at the southern edge*. Ontario Ecology, Ethology and Evolution Colloquium, Guelph University.

Olsoy, P.J., Forbey, J.S., Rachlow, J.L., Burgess, M.A., Glenn, N.F., Shipley, L.S., and **Thornton, D.H.**. 2014. *Mapping herbivore habitat quality with unmanned aerial systems*. UAS Working Group Meeting, University of Idaho.

Rachlow, J.L., Forbey, J.S., Shipley, L., Burgess, M., Olsoy, P.J., **Thornton, D.**, Milling, C, and Nobler, J.D. 2014. Scaling-up habitat attributes in the sagebrush-steppe environment using unmanned aircraft technology. Invited presentation. The Wildlife Society Annual Meeting, Pittsburgh, PA.

Otis, J-A., **Thornton, D.H.**, Rutledge, L.Y., and Murray, D.L. 2014. *Ecological niche differentiation along the genetic gradient by hybridization of eastern wolf and coyote in Northeastern America*. Canadian Society for Ecology and Evolution Annual Meeting, Montreal, Canada.

**Thornton, D.H.**, Kathy Zeller, Carlo Rondinini, Luigi Boitani, Chris Burdett, Kevin Crooks, Howard Quigley. 2014. *Evaluating the umbrella value of a range-wide conservation network*. American Society of Mammalogists 2014 meeting.

**Thornton, D.H.**, Kathy Zeller, Carlo Rondinini, Luigi Boitani, Chris Burdett, Kevin Crooks, Howard Quigley. 2014. *Evaluating the umbrella value of a range-wide conservation network*. International Wildcat Symposium, Sarapiquí, Costa Rica.

**Thornton, DH.** 2014. *Mammal ecology and conservation at large scales*. Invited seminar, University of Belize, Belmopan, BZ.

#### 2013

Peers, M.L.J., **Thornton, D.H.**, Murray, D.L. 2013. *Evidence for large-scale effects of competition: niche displacement in Canada lynx and bobcat*. Quebec Society for the Biological Study of Behaviour Annual Meeting, Concordia University.

**Thornton, D.H.** *Jaguar ecology and conservation*. 2013. WSU Wildlife Society.

#### 2012

**Thornton, D.H.**, Branch, L.C., Sieving, K., Walker, S. 2012. Symposium organizers: "Landscape Ecology as a Foundation for Wildlife Conservation: Research Approaches and Applications" at the X International Congress for Wildlife Management in Amazonia & Latin America conference

**Thornton, D.H.**, Peers, M., and D.L. Murray. *Range and niche shifts of North American mesocarnivores as revealed by species distribution models*. Invited Lecture. Universidad Nacional de La Salta, La Salta, Argentina. May 2012.

**Thornton, D.H.**, Branch, L.C., Villarreal, D., and M. Gonzolez-Roglich. X International Conference for Management of Wildlife in Amazon and Latin America, Salta, Argentina, May 2012. Analyzing species occurrence data obtained through standardized surveys of rural landowners to examine species-environment relationships at large scales.

#### 2011

**Thornton, D.H.** Life Science Seminar Series. Trent University. December 2011. Carnivore conservation in human-dominated environments: a landscape ecology approach.

**Thornton, D.H.** Board of Visitors Sustainability Conference, Southwestern University. April 2011. Research and education in Conservation Biology at Southwestern University.

#### Pre-2011

**Thornton, D.H.**, Branch, L.C., and M.E. Sunquist. Annual Meeting of the Society for Conservation Biology, Edmonton, Canada. July 2010. Evaluating the relative influence of habitat loss and fragmentation: Do tropical mammals meet the temperate paradigm?

**Thornton, D.H.** Wildlife Ecology Seminar Series, University of Florida, Gainesville. April 2010. Influence of species traits and landscape attributes on the response of mid and large-sized neotropical mammals to forest fragmentation.

**Thornton, D.H.**, and L.C. Branch. Biology Special Seminar, Universidad Nacional de La Pampa, La Pampa, Argentina. June 2009. The effects of habitat fragmentation on the distribution of mid-large sized mammals in Petén, Guatemala.

**Thornton, D.H.**, and L.C. Branch. Ecology Special Seminar, Universidad Nacional de La Salta, La Salta, Argentina. June 2009. The effects of habitat loss and fragmentation on the distribution of mid-large sized mammals in Petén, Guatemala.

**Thornton, D.H.**, Branch, L.C., and M.E. Sunquist. VIII International Conference for Management of Wildlife in Amazon and Latin America, Rio Branco, Brazil. August. 2008. Determining the vulnerability to fragmentation of mid-large sized mammals in Petén, Guatemala.

- Thornton, D.H.** VIII International Conference for Management of Wildlife in Amazon and Latin America, Rio Branco, Brazil. *4-hour workshop involving lecture and computer exercises.* 2008. Estimating occupancy of species through the use of repeated detection/non detection surveys.
- Thornton, D.H.** Wildlife Monitoring Roundtable, Wildlife Conservation Society, Peten, Guatemala. March 2008. Understanding the response of mammals to habitat loss and fragmentation.
- Thornton, D.H.** Conservation Seminar, Programa de Incentivos Forestales, Peten, Guatemala. March 2008. Wildlife conservation in habitat fragments of Peten, Guatemala.
- Thornton, D.H.,** Branch, L.C., and M.E. Sunquist. X Conference of the Mesoamerican Society for Biology and Conservation, Antigua, Guatemala. September 2006. The distribution of jaguars and their prey in a fragmented tropical landscape.
- Thornton, D.H.** Wildlife Conservation Society Camera-trapping Workshop, Tikal National Park, Petén, Guatemala. *4-hour workshop involving lecture and computer exercises.* Jan 2004. Estimating occupancy of species through the use of repeated detection/non detection surveys.
- Thornton, D.H.,** Sunquist, M.E., and M.B. Main. Wildlife Ecology Masters Symposium, University of Florida, Gainesville. May 2003. Ecological separation within newly sympatric populations of coyotes and bobcats.

#### PROFESSIONAL ACTIVITIES AND COMMUNITY SERVICE

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| WSU School of Environment Representative for the Rocky Mountain CESU   | 2015-present |
| Member of the Pacific Northwest Camera Trapping Network  | 2015-present |
| Developed and maintained a Washington Lynx Facebook page, which provides updates to lynx related research in my lab and elsewhere.   | 2015-present |
| Citizen-science camera trapping (involving 4 citizen-scientists in field work)   | 2016         |
| Member of international team of peccary experts seeking to petition IUCN to uplist white-lipped peccary in Mesoamerica. I am leading the mapping component of the uplisting process.   | 2016         |
| Reviewer for: Diversity and Distribution, Ecological Applications, Ecography, Journal of Applied Ecology, Journal of Zoology, Journal of Mammalogy, Journal of Ethology, Tropical Conservation Science, Biodiversity and Conservation, Wildlife Research, Journal of Tropical Ecology, Mammalian Biology, Journal of Arid Environments | 2010-present |
| Organizer of the Fondren-Jones Science Lecture Series at Southwestern University   | 2010         |
| Consultant for Panthera – literature review of line transect sampling  | 2009         |
| Biological consultant for Wildlife Conservation Society-Guatemala – Jaguar occupancy study of two large forest fragments   | 2008         |

## PROFESSIONAL SOCIETIES

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- Society for Conservation Biology
- Ecological Society of America
- American Society of Mammalogists

## FOREIGN LANGUAGES

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- Spanish

## REFERENCES

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