

## PROFESSIONAL APPOINTMENTS

- Postdoctoral Scholar** *University of California, Berkeley, CA and Panthera, New York, NY* Jan 2017-Present  
Research on funding and co-management strategies for conservation of lions in Africa's protected areas
- Postdoctoral Researcher**, *Panthera, Cornell and University of Cape Town, Ithaca, NY* May 2015-Dec 2016  
Applied research on lion-leopard competition and sustainable lion hunting in southern Africa
- Doctoral Candidate**, *Yale School of Forestry & Environmental Studies, New Haven, CT* Aug 2009-May 2015  
Conservation-focused field research on spatial patterns and human perceptions of tiger and leopard depredation on livestock in India, and effective interventions for mitigating human-wildlife conflict globally
- Research Assistant**, *Smithsonian National Museum of Natural History, Washington, D.C.* Jan-July 2009  
Museum-based research on squirrel movement morphology and systematics
- Fulbright Research Scholar**, *Wildlife Institute of India, Dehradun, India* Feb-Nov 2008  
Field research on the recovery of threatened pheasants in the Western Himalayas of India
- Policy Intern**, *The Wildlife Society, Bethesda, MD* June-Dec 2007  
Monitoring and evaluation of policy legislation on wildlife conservation

## EDUCATION

- PhD in Ecology**, *Yale School of Forestry & Environmental Studies, New Haven, CT* 2015  
Advisor: Oswald Schmitz; Committee: Walter Jetz, David Skelly, Y.V. Jhala
- Bachelor of Arts in Organismal Biology**, *Claremont McKenna College, Claremont, CA* 2007  
*Magna Cum Laude* with Department Honors

## PUBLICATIONS

18. Lindsey, P.\*, **J. R. B. Miller\***, L. Petracca\*, et al. Budget deficits facing African protected areas for lion conservation. *Proceedings of the National Academy of Sciences* (in prep). \*Shared first co-authorship.
17. van Eeden, L. M.\*, A. Eklund\*, **J. R. B. Miller\***, A. Treves\*, et al. The best available science for preventing carnivore predation on livestock. *Frontiers in Ecology and the Environment* (in prep). \*Shared first co-authorship.
16. **Miller, J. R. B.**, R. T. Pitman, G. K. H. Mann, A. K. Fuller, and G. A. Balme. Live and let live: Lions and leopards show no spatial, temporal or demographic consequences of intraspecific competition. *Diversity and Distributions* (submitted).
15. Baghai, M.\*, **J. R. B. Miller\***, L. J. Blanken, H. T. Dublin, K. H. Fitzgerald, P. Gandiwa, K. Laurenson, J. Milanzi, A. Nelson, and P. Lindsey. Models for the collaborative management of African protected areas. *Biological Conservation* (in review). \*Shared first co-authorship.
14. Balme, G., R. Pitman, H. Robinson, **J. R. B. Miller**, P. Funston, and L. Hunter. 2017. Leopard distribution and abundance is unaffected by interference competition with lions. *Behavioral Ecology*. Early online.
13. Begg, C., **J. R. B. Miller**, and K. Begg. 2017. Effective implementation of age restrictions increases selectivity of sport hunting of the African lion. *Journal of Applied Ecology*. Early online.

12. Schmitz, O. J., **J. R. B. Miller**, A. M. Trainor, B. Abrahms. 2017. Toward a community ecology of landscapes: predicting multiple predator-prey interactions across geographic space. *Ecology*. Early online.
11. Balme, G. A., **J. R. B. Miller**, R. T. Pitman, and L. T. B. Hunter. 2017. Caching reduces kleptoparasitism in a solitary, large felid. *Journal of Animal Ecology* 86:634-644.
10. **Miller, J. R. B.**, K. J. Stoner, M. R. Cejtin, T. K. Meyer, A. D. Middleton, and O. J. Schmitz. 2016. Tools for human-carnivore coexistence: a quantitative assessment of techniques for reducing large carnivore depredation of livestock. *Wildlife Society Bulletin* 40:806–815.
9. **Miller, J. R. B.**, Y. V. Jhala, and O. J. Schmitz. 2016. Human perceptions mirror realities of carnivore attack risk for livestock: implications of mitigating human-carnivore conflict. *PLOS One* 11:e0162685.
8. **Miller, J. R. B.**, P. J. Funston, G. Balme, & 21 co-authors. 2016. Aging traits and sustainable trophy hunting of African lions. *Biological Conservation* 201:160-168.
7. **Miller, J. R. B.**, Y. V. Jhala, and J. Jena. 2016. Livestock losses and hotspots of attack from tigers and leopards in Kanha Tiger Reserve, central India. *Regional Environmental Change* 16:17-29.
6. **Miller, J. R. B.** 2015. Mapping attack hotspots to mitigate human-carnivore conflict: Approaches and applications of spatial predation risk modeling. *Biodiversity and Conservation* 24(12):2887-2911.  
\*Won Herbert Bormann Prize for Best Scientific Paper at Yale School of Forestry & Environmental Studies
5. **Miller, J. R. B.**, Y. V. Jhala, J. Jyoti, and O. J. Schmitz. 2015. Landscape-scale accessibility of livestock to tigers: implications of spatial grain for modeling predation risk to mitigate human-carnivore conflict. *Ecology and Evolution* 5(6):1354-1367.
4. **Miller, J. R. B.**, J. M. Ament, and O. J. Schmitz. 2013. Fear on the move: predator hunting mode predicts variation in prey mortality and plasticity in prey spatial response. *Journal of Animal Ecology* 83(1):214-222.
3. **Miller, J. R. B.** 2010. Survey of Western Tragopan, Koklass Pheasant, and Himalayan Monal populations in the Great Himalayan National Park, Himachal Pradesh, India. *Indian Birds* 6(3):60-65.
2. **Miller, J. R. B.** 2009. New vocalizations by the Koklass pheasant *Pucrasia macrolopha*. *International Journal of Galliforms Conservation* 1:56-57.
1. **Miller, J. R. B.** and D. A. McFarlane. 2008. A preliminary investigation into Hayne Estimates of poison dart frog (Anura: Dendrobatidae) densities in recovering tropical forest habitats, southwest Costa Rica. *Herpetological Conservation and Biology* 3(2):298-294.

## BOOK CHAPTERS

1. **Miller, J. R. B.** and O. J. Schmitz. 2012. Food Webs and Sustainability. In R. K. Craig, J. C. Nagle, B. Pardy, O. Schmitz, & W. Smith (Eds.), *Berkshire Encyclopedia of Sustainability: Ecosystem Management and Sustainability*, Vol. 5. Great Barrington, Massachusetts: Berkshire Publishing Group LLC.

## FELLOWSHIPS AND AWARDS

<b>Best Talk Award for Science Applied to Responsible Wildlife Management (\$70)</b> , South African Wildlife Management Association Symposium	2016
<b>Herbert Bormann Prize for Best Scientific Paper (\$500)</b> , Yale School of Forestry & Enviro Studies	2015
<b>Junior Research Fellowship</b> , American Institute for Indian Studies (\$12,770)	2012
<b>Critical Language Scholarship</b> to study Hindi in India, U.S. Department of State	2010
<b>Graduate Student Research Fellowship</b> , National Science Foundation	2008
<b>U.S. Fulbright Student Research Scholarship</b> to India, U.S. Department of State	2008

## GRANTS

<b>Professional Development Grant (\$500)</b> , Berkeley Postdoctoral Association	2017
<b>Postdoc Travel Grant (\$500)</b> , Cornell Postdoc Association	2016
<b>Conference Travel Fellowship (\$500)</b> , Yale Graduate Student Assembly	2014
<b>Travel Award (\$300)</b> , Student Chapter of the Ecological Society of America	2014
<b>Doctoral Travel Funds (\$500)</b> , Yale School of Forestry & Environmental Studies	Annually 2013-2015
<b>Junior Research Fellowship (\$12,770)</b> , American Institute for Indian Studies	2012
<b>Exploration Fund (\$3,000)</b> , Lewis and Clark	2012
<b>Wildlife Conservation Fund (\$2,400)</b> , John Ball Zoo Society	2012
<b>Alumni Grant (\$500)</b> , U.S. State Department Critical Language Scholarship	2012
<b>Research Fellowship (\$7,720)</b> , Yale Tropical Resources Institute	2011-2012
<b>Conservation Endowment Fund (\$23,592)</b> , Association of Zoos & Aquariums	2011
<b>Summer Research Award (\$4,000)</b> , Yale South Asian Studies Council Summer Research Award	2010
<b>ECOSAVE Grant (\$2,000)</b> , Yale Institute for Biospheric Studies	2010
<b>Preliminary Research Grant (\$5,000)</b> , Yale Institute for Biospheric Studies	2009

## TEACHING EXPERIENCE

<b>Guest Instructor</b> , Sierra Nevada Wildlife Ecology (undergraduate field course), UC Forestry Camp	2017
<b>Keynote Speaker</b> , Green Living Seminar, Massachusetts College of Liberal Arts	2016
<b>Guest Lecturer</b> , Mammalogy (undergraduate course), Cornell University	2015
<b>Guest Lecturer</b> , Conservation In Practice (graduate seminar), Yale School of Forestry & Enviro Studies	2014
<b>Teaching Assistant</b> , Conservation In Practice (graduate seminar), Yale School of Forestry & Enviro Studies	2012
<b>Teaching Assistant</b> , Landscape Ecology (graduate course), Yale School of Forestry & Enviro Studies	2010
<b>Certified Outdoor Trip Leader</b> , On-The-Loose Outdoors Club, Claremont McKenna College	2006-2007
<b>Volunteer 3<sup>rd</sup> &amp; 4<sup>th</sup> Grade Science Teacher</b> , Oakmont and Chaparral Elementary Schools	2003, 2005, 2007

## INVITED TALKS

<b>Wildlife Seminar</b> , UC Berkeley (2017)	<b>Public Seminar</b> , Connecticut's Beardsley Zoo (2014)
<b>Wildlife Conservation Society Chapter Meeting</b> , Cornell University (2016)	<b>Seminar</b> , Wildlife Institute of India (2014)
<b>Harvard Wildlife Career Fair</b> , Harvard (2016)	<b>Weekly Seminar</b> , Ashoka Trust for Research in Ecology and the Environment (2014)
<b>Department of Biological Sciences Seminar</b> , University of Cape Town (2015)	<b>Centre for Ecological Sciences Seminar</b> , Indian Institute of Science (2014)
<b>Human-Tiger Conflict Workshop</b> , WWF-Nepal (2014)	<b>Seminar</b> , WWF-India (2012)

## CONTRIBUTED PRESENTATIONS

South African Wildlife Management Association (2016)	Ecological Society of America (2014)
Cornell Dept of Natural Resources Symposium (2016)	Gordon Conference - Predator-Prey Interactions (2014)
Network for Conserving Central India Sym (2014, 2016)	Student Conf. on Conservation Science (2010, 2016)
North American Congress for Conserv Biology (2014)	Yale F&ES Doctoral Conference (2010, 2013)

## PROFESSIONAL DEVELOPMENT & TRAININGS

- **Hacking for Conservation**, Conservation X Labs 2017
- **Teaching Conservation Science**, AMNH Network of Conservation Educators & Practitioners 2017
- **Meeting Facilitation Workshop**, UC Berkeley 2017
- **Pixar's Story Strategies for Science Communication Workshop**, UC Berkeley 2017
- **Editorial Intern**, Cornell Lab of Ornithology Communications Team 2014- 2015
- **Postdoc Leadership Development Program**, Cornell University 2015-2016
- **iRest Training** (Level 1) in meditative self-inquiry, yoga nidra and stress reduction 2010

## SERVICE, COMMUNITY & PUBLIC OUTREACH

- Chief Financial Officer:** Society for Conservation Biology Asia Section Board 2017-Present
- Member:** African Lion Working Group 2016-Present
- Graduate Student Committee Member:** 1 PhD and 3 MSc students 2016-Present
- Co-Founder and Web Manager:** Network for Conserving Central India 2014-Present
- Science Website Designer and Manager:** 6 websites for labs and working groups 2009-Present
- Career mentor to Masters, undergraduate and high school students:** Cornell 2014-2017  
Environmental Mentors, Women in Science at Yale and ELM Alumni Mentoring Program
- Founder and Member:** Panthera Human-Felid Conflict Working Group 2016
- Founder and Executive Editor:** Bulletin of the Wildlife Institute of India 2012- 2014
- Staff Writer:** Yale Environmental Review 2012- 2013
- Founder and Leader:** PhD Peer Mentoring Program, Yale School of Forestry & Enviro. Studies 2011-2015
- Graduate Student Representative:** Yale Graduate Assembly 2010- 2011
- Conference Organizer:** Central Indian Landscape Symposium (2017), Kanha-Pench Landscape Sympos. (2014)
- Grant proposal reviewer:** National Science Foundation – Geography and Spatial Sciences Program, Conservation Leadership Programme
- Reviewer:** *Biological Conservation, Biodiversity & Conservation, Environment, Human Dimensions of Wildlife, International J of Biodiversity and Conservation, J of Wildlife Management; Mammalia; Oikos; PLOS One*
- Professional society member:** Society for Conservation Biology (Yale and UC Berkeley Chapters), Ecological Society for America, The Wildlife Society

## PROFESSIONAL SKILLS

- Field research:** Carnivore and prey sign surveys, transect and spotlight lagomorph surveys, bird playback surveys, bird call counts, vegetation structure surveys, VHF biotelemetry and triangulation, net-catching and radio-collaring deer fawns, mist netting, necropsy, camera trapping, mark-recapture
- Languages:** Hindi (intermediate), Spanish (beginning)
- Social media and website development:** WordPress, Weebly, QuestBase, Facebook
- Software:** ArcGIS, R Statistical Software, ERDAS IMAGINE, ENVI, Mimics 3D Image Processing, EndNote, Mendeley Desktop, Adobe Photoshop, Microsoft Office (Word, Excel, PowerPoint)