

## CURRICULUM-VITAE

**ACHYUT ARYAL, Ph.D.**  
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### EDUCATION

- 2013      **Doctor of Philosophy (Ph.D.)** in Conservation Biology, **Massey University, New Zealand.**  
**Thesis:** Prey, predator, human and climate change interaction in the Himalaya.
- 2008      **Master of Science (M.Sc.)** in Forest Ecology and Management, **Albert Ludwigs University of Freiburg, Germany.**  
**Thesis:** Population ecology and predators of bharal (*Pseudois nayaur*) in Dhorpatan Hunting Reserve, Nepal.
- 2005      **Bachelor of Science (B.Sc.)** in Forestry, **Tribhuvan University, Nepal.**  
**Thesis:** Blue bull (*Boselaphus tragocamelus*): Demography, carrying capacity and conflict in Lumbini Development Trust's area of Nepal.
- 1999      **Intermediate in Science (I.Sc.)** in Forestry, **Tribhuvan University, Nepal.**

### OTHER QUALIFICATIONS:

- 2018      **Graduate Certificates in Occupational Health and Safety Management (Level 7), Southern Institute of Technology, New Zealand.**
- 2018      **International Proficiency Certificate** in IP404- Air Monitoring, Clearance Inspections and Reoccupation Following the Removal of Asbestos from **Faculty of Occupational Hygiene (BOHS), UK.**

### CURRENT EMPLOYMENT

- January 2017– till date: **Research Associate** at Human-Wildlife Interaction Research Group, INMS, Massey University, Albany, New Zealand.
- 29 November 2016– till date: **Research Fellow (Honorary)** at Federation University Australia.
- 20 March 2016– till date: **Senior Principal Research Fellow (Honorary)** at Charles Perkins Centre, School of Life and Environmental Sciences, Faculty of Science, **The University of Sydney, Sydney, Australia.**
- 29 August 2016 to till date: **Honorary Research Fellow** at Department of Forestry and Resource Management, Toi Ohomai Institute of Technology, Rotorua, New Zealand.

### PUBLICATIONS

1.      **Aryal A**, CG Morley, IG McLean. **2018.** Conserving elephants depend on a total ban of ivory trade globally. *Biodiversity and Conservation*. DOI: 10.1007/s10531-018-1534-x
2.      Su J, **A Aryal**, IM Hegab, UB Shrestha, SC Coogan, S Sathyakumar, M Dalannast, Z Dou, Y Suo, X Dabu, H Fu, W Ji. **2018.** Decreasing brown bear (*Ursus arctos*) habitat due to climate change in Central Asia and the Asian Highlands. *Ecology and Evolution*. <https://doi.org/10.1002/ece3.4645>
3.      Lamsal P, L Kumar, **A Aryal**, K Atreya. **2018.** Future climate and habitat distribution of Himalayan Musk Deer (*Moschus chrysogaster*). *Ecological Informatics*. <https://doi.org/10.1016/j.ecoinf.2018.02.004>
4.      Lamsal P, L Kumar, **A Aryal**, K Atreya. **2018.** Invasive alien plant species dynamics in the Himalayan region under climate change. *AMBIO A Journal of the Human Environment*. DOI 10.1007/s13280-018-1017-z.

5. Hanson J, M Schutgens, R Lama, **A Aryal**, M Dhakal. **2018**. Local attitudes to proposed translocation of blue sheep *Pseudois nayaur* to Sagarmatha National Park, Nepal. *Oryx—The International Journal of Conservation* (Accepted).
6. Ali A, M Waseem, M Teng, S Ali, M Ishaq, A Haseeb, **A Aryal**, Z Zhou. **2018**. Human–Asiatic black bear (*Ursus thibetanus*) interactions in the Kaghan Valley, Pakistan. *Ethology Ecology & Evolution* 1-17.
7. Wang J, P Wang, A Aryal, X Meng, RB Weladji. **2018**. Summer habitat selection of reindeer (*Rangifer tarandus*) governs on the unprotected forest and human interface in China. *Ekológia (Bratislava)* 37(2):112-21.
8. Hill SD, **A Aryal**, MDM Pawley, W Ji. **2018**. So much for the city: urban-rural song variation in a widespread Asiatic songbird. *Integrative Zoology* 13 (2): 194-205
9. **Aryal A**. **2017**. Is snow leopard tally underestimated? *Nature* 550:457- 457.
10. **Aryal A**, KP Acharya, UB Shrestha, M Dhakal, D Raubenhiemer, W Wright. **2017**. Global lessons from successful rhinoceros conservation in Nepal. *Conservation Biology* 31(6): 1494–1497.
11. **Aryal A**, CG Morley, P Cowan, W Ji. **2017**. Conservation trophy hunting: An implication of contrasting approaches in native and introduce range countries? *Biodiversity* 17(4): 179-181.
12. Panthi S, G Khanal, KP Acharya, **A Aryal**, A Srivathsa. **2017**. Large anthropogenic impacts on a charismatic small carnivore: Insights from distribution surveys of red panda *Ailurus fulgens* in Nepal. *PLoS ONE* 12(7): e0180978.
13. Soofi M, AT Qashqaei, **A Aryal**, SCP Coogan. **2017**. Autumn food habits of brown bear *Ursus arctos* in the Golestan National Park: a pilot study in Iran. *Mammalia* (Accepted 30/08/2017)
14. Bhattarai BR, W Wright, BS Poudel, A Aryal, B Yadav, R Wagle. **2017**. Shifting paradigms for Nepal’s protected areas: history, challenges and relationships. *Journal of Mountain Science* 14: xx-xx. DOI: 10.1007/s11629-016-3980-9.
15. Khadka BD, BP Yadav, N Aryal, **A Aryal**. **2017**. Rediscovery of the hispid hare (*Caprolagus hispidus*) in Chitwan National Park, Nepal after three decades. *Conservation Science* 5(1): 10-12.
16. Manandhar S, S Thapa, TK Shrestha, R Jyakhwo, W Wright, **A Aryal**. **2017**. Population status and diurnal behaviour of the indian flying fox *Pteropus giganteus* (brünnich, 1782) in Kathmandu valley, Nepal. *Proceedings of the Zoological Society*. DOI: 10.1007/s12595-017-0219-x.
17. Khanal S, **A Aryal**, C G Morley, W Wright, N B Singh. **2017**. Challenges of conserving blue bull (*Boselaphus tragocamelus*) outside the protected areas’ of Nepal. *Proceedings of the Zoological Society*. DOI: 10.1007/s12595-017-0218-y.
18. Thapa, A, KB Shah, CP Pokheral, R Paudel, D Adhikari, P Bhattarai, N J Cruz, **A Aryal**. **2017**. Combined land cover changes and habitat occupancy to understand corridor status of Laljhadi-Mohana Wildlife Corridor, Nepal. *European Journal of Wildlife Research* (accepted on 12/9/2017).
19. Thapa B, **A Aryal**, M Roth, C Morley. **2017**. The contribution of wildlife tourism to tiger conservation (*Panthera tigris tigris*). *Biodiversity* 18(4):168-174.
20. **Aryal A**, UB Shrestha, W Ji, S Ale, T Ingty, T Maraseni, G Cockfield, D Raubenheimer. **2016**. Predicting the distributions of predator (snow leopard) and prey (blue sheep) with climate change in the Himalaya. *Ecology and Evolution* 6(12):4065–4075.
21. Ji W, **A Aryal**, J Su. **2016**. Rangeland management: Tibetan wildlife hemmed in. *Nature* 530:33, doi:10.1038/530033c.

22. **Aryal A**, RP Lamsal, W Ji, D Raubenheimer. **2016**. Are there sufficient prey and protected in Nepal to sustain an increasing tiger population? *Ethology Ecology and Evolution* 28(1): 117-120.
23. Koirala K, D Raubenheimer, *A Aryal*, W Ji. **2016**. Feeding preference of the Asian elephant (*Elephas maximus*) in Nepal. *BMC Ecology* 16:54
24. Bhandari P, M KC, S Shrestha, **A Aryal**, UB Shrestha. **2016**. Assessments of ecosystem service indicators and stakeholder's willingness to pay for selected ecosystem services in the Northern watershed of Churia region of Nepal. *Applied Geography* doi:10.1016/j.apgeog.2016.02.003
25. Gosai KR, TK Shrestha, SD Hill, SM Shrestha, B Gyawali, DN Gautam, **A Aryal**. **2016**. Population Structure, Behaviour and Current Threat on Sarus Crane (*Grus antigone antigone*) in Nepal. *Journal of Asia-Pacific Biodiversity*, doi: 10.1016/j.japb.2016.06.008.
26. **Aryal A**, W Ji, UB Shreshta, R Bencini, D Raubenheimer. **2015**. Conservation conflict: Factor people into tiger conservation. *Nature* 522: 287-287.
27. **Aryal A**, SCP Coogan, W Ji, JM Rothman, D Raubenheimer. **2015**. Foods, macronutrients and fibre in the diet of blue sheep (*Pseudois nayaur*) in the Annapurna Conservation Area of Nepal. *Ecology and Evolution* 5(18): 4006-4017.
28. Wang J, J Sun, **A Aryal**, D Raubenheimer, D Liu, Y Sheng, D Chang, L Shi, J Wu, Z Ma, H Wang, X Meng. **2015**. Reindeer Ewenki's Fading Culture. *Science* 347 (6225): 957-957.
29. **Aryal A.**, D Brunton, W Ji, J Rothman, SCP Coogan, B Adhikari, S Juhnu, D Raubenheimer. **2015**. Habitat, diet, macronutrient, and fiber balance of Himalayan marmot (*Marmota himalayana*) in the Central Himalaya, Nepal. *Journal of Mammalogy* 96(2): 308-316.
30. Shrestha UB, S Shrestha, **A Aryal**. **2015**. Disaster response: Volunteers, unite!. *Science* 349 (6249): 699-700.
31. **Aryal A**, M Dhakal, S Panthi, B Yadav, UB Shrestha, R Bencini, D Raubenheimer, W Ji. **2015**. Is trophy hunting of bharal (blue sheep) and Himalayan tahr contributing to their conservation in Nepal? *HYSTRIX-Italian Journal of Mammalogy* 26(2):85-88.
32. Su J, **A Aryal**, Z Nan, W Ji. **2015**. Climate change-induced range expansion of a subterranean rodent: Implications for rangeland management in Qinghai-Tibetan Plateau. *PLoS ONE* 10(9):e0138969.
33. **Aryal A**, S Panthi, RK Barraclough, R Bencini, W Ji, D Raubenheimer. **2015**. Habitat selection and feeding ecology of dhole (*Cuon alpinus*) in the Himalaya. *Journal of Mammalogy* 96 (1): 47-53.
34. Panthi S, SCP Coogan, **A Aryal**, D Raubenheimer. **2015**. Diet and nutrient balance of red panda in Nepal. *The Science of Nature (Naturwissenschaften)* 102 (9-10): 1-4.
35. Koirala RK, W Ji, **A Aryal**, J Rothman, D Raubenheimer. **2015**. Dispersal and ranging patterns of the Asian elephant (*Elephas maximus*) in relation to their interactions with humans in Nepal. *Ethology Ecology and Evolution*. DOI:10.1080/03949370.2015.1066872
36. **Aryal A**, D Brunton, T McCarthy, D Karmachharya, W Ji, R Bencini, D Raubenheimer. **2014**. Multipronged strategy including genetic analysis for assessing conservation options for the snow leopard in the central Himalaya. *Journal of Mammalogy* 95(4):871-881.
37. **Aryal A**, D Brunton, W Ji, RK Barraclough, D Raubenheimer. **2014**. Human-Carnivore Conflict: Ecological and economical sustainability of predation on livestock by snow leopard and other carnivores in the Himalaya. *Sustainability Sciences* 9(3):321-329.

38. **Aryal A**, D Brunton, D Raubenheimer. **2014**. Impacts of climate change on human-wildlife-ecosystem interactions in the Trans-Himalayan region of Nepal. *Theoretical and Applied Climatology* 115:517–529.
39. **Aryal A**, D Brunton, W Ji, D Raubenheimer. **2014**. Blue sheep in the Annapurna Conservation Area, Nepal: habitat use, population biomass and their contribution to the carrying capacity of snow leopards. *Integrative Zoology* 9: 34-46.
40. Meng X, **Aryal A**, Tait, D Raubenheimer, J Wu, Z Ma, Y Sheng, D Li, F Liu, F Meng, P Wang, Z Zeng, Y Guo, X Ge, Q Shi, W Wang. **2014**. Population trends, distribution and conservation status of semi-domesticated reindeer (*Rangifer tarandus*) in China. *Journal of Nature Conservation* 22(6): 539-546.
41. Matsubayashi J, J Morimoto, T Mano, M Minagawa, **Aryal A**, F. Nakamura. **2014**. Using stable isotopes to understand the feeding ecology of the Hokkaido brown bear (*Ursus arctos*) in Japan. *Ursus* 25(2): 87-97.
42. Thapa BH, Panthi S, RK Rai, U Sherstha, **Aryal A**, S Shrestha, B Shrestha. **2014**. An Assessment of Yarsagumba (*Ophiocordyceps sinensis*) collection in Dhorpatan Hunting Reserve, Nepal. *Journal of Mountain Sciences* 11(2): 552-562.
43. Shrestha T, **Aryal A**, R Rai, S Koirala, D Jnawali, R Kafle, BP Bhandari, D Raubenheimer. **2014**. Balancing Wildlife and Human Needs: Protected Forest Approach in Nepal. *Natural Areas Journal* 34(3):376-380.
44. Spakota S, **Aryal A**, S Baral, M W Hayward, D Raubenheimer. **2014**. Role of electric fencing to mitigate human-wildlife conflict in Chitwan National Park, Nepal. *Journal of Resource and Ecology* 5(3):237-243.
45. **Aryal A**, D Brunton, R Pandit, R Rai, UB Shrestha, N Lama, D Raubenheimer. **2013**. Rangelands, conflict and society in upper Mustang region, Nepal: Status, rights and traditional rangeland management strategies. *Mountain Research and Development* 31 (1): 11-18.
46. **Aryal A**, D Raubenheimer, D Brunton **2013**. Habitat assessment for the translocation of blue sheep to maintain a viable snow leopard population in the Mt Everest Region, Nepal. *Zoology and Ecology* 23(1): 66-82.
47. Tandon P, K Karki, B Dhakal, **Aryal A**. **2013**. Tropical grasslands supporting the endangered hispid hare (*Caprolagus hispidus*) population in the Bardia National Park, Nepal. *Current Science* 105(5): 691-694.
48. Zhou X, H Jiao, Y Dou, **Aryal A**, J Hu, J Hu, M Meng. **2013**. The winter habitat selection of red panda (*Ailurus fulgens*) in the Meigu Dafengding National Nature Reserve of China. *Current Science* 105(10):1425-1429.
49. Bista R and **Aryal A**. **2013**. Status of the Asiatic black bear *Ursus thibetanus* in the southeastern region of the Annapurna Conservation Area, Nepal. *Zoology and Ecology* 23(1): 83-87.
50. **Aryal A**, J Hopkins, W Ji, D Raubenheimer, D Brunton. **2012**. Distribution and diet of brown bear in the upper Mustang region, Nepal. *Ursus* 23 (2): 231–236.
51. **Aryal A**, D Raubenheimer, S Sathyakumar, BS Poudel, W Ji, KJ Kunwar, J Kok, S Kohshima, D Brunton. **2012**. Conservation strategy for brown bear and its habitat in Nepal. *Diversity* 4(3):301-317.
52. **Aryal A**, D Brunton, W Ji, Hemanta Yadav, B Adhikari, D Raubenheimer. **2012**. Diet and habitat use of hispid hare *Caprolagus hispidus* in Shuklaphanta Wildlife Reserve Nepal. *Mammal Study* 37(2): 147-154. (with cover page photo coverage).
53. **Aryal A**, D Brunton, R Pandit, TK Shrestha, RK Koirala, J Lord, YB Thapa, B Adhikari, W Ji, D Raubenheimer. **2012**. Biological diversity and management regimes of the

northern Barandabhar Forest Corridor: an essential habitat for ecological connectivity in Nepal. *Tropical Conservation Sciences* 5(1):38-49.

54. Panthi S, **A Aryal**, J Lord, B Adhikari, D Raubenheimer. **2012**. Summer diet and habitat ecology of red panda (*Ailurus fulgens fulgens*) in Dhopatan Hunting Reserve, Nepal. *Zoological Studies* 51(5):701-709. (Cover page with red panda).
55. Koirala RK, **A Aryal**, C Amiot, B Adhikari, D Karmacharya and D Raubenheimer. **2012**. Genetic identification of carnivore scat: implication of dietary information for human-carnivore conflict in the Annapurna Conservation Area, Nepal. *Zoology and Ecology* 22: 137-143.
56. Pariyar S, **A Aryal**, B Brittige, B Adhikari, N Gautam. **2012**. Population status and distribution of the common langur (*Presbytis entellus*) in Suklaphanta Wildlife Reserve, Nepal. *Journal of Research in Conservation Biology* 1:029-035
57. Koirala RK, **A Aryal**, A Parajuli, D Raubenheimer. **2012**. Human-leopard conflict in lower belt of Annapurna Conservation Area, Nepal. *Journal of Research in Conservation Biology* 1:05-13.
58. Subedi A, **A Aryal**, RK Koirala, YP Timilsina, X Meng, F Mckenzie. **2012**. Habitat ecology of Himalayan musk deer (*Moschus chrysogaster*) in Manaslu Conservation Area of Western Nepal. *International Journal of Zoological Research*. 8(2):81-89  
DOI: 10.3923/ijzr.2012.81.89
59. **Aryal, A.** 2012. Brown bear conservation action plan in Nepal: Efforts, challenges and achievements. *World Journal of Zoology* 7(1):75-78.
60. **Aryal A**, TK Shrestha, A Ram, W Frey, C Groves, H Hemmer, M Dhakal, RK Koirala, J Heinen and D Raubenheimer. **2011**. Call to conserve the wild water Buffalo (*Bubalus Arnee*) in Nepal. *International Journal of Conservation Sciences* 2(4):161-168.
61. **Aryal A** and A Subedi. **2011**. Conservation and potential habitat of Himalayan musk deer *Moschus chrysogaster* in the protected areas of Nepal. *International Journal of Conservation Sciences* 2(2):127-141.
62. Giri S, **A Aryal**, RK Koirala, B Adhikari and D Raubenheimer. **2011**. Feeding ecology and distribution of Himalayan serow (*Capricornis thar*) in Annapurna Conservation Area, Nepal. *World Journal of Zoology* 6(1):80-85.
63. Khatiwada AP, KD Awasthi, NP Gautam, SR Jnawali, N Subedi, **A Aryal**. **2011**. The pack hunter (Dhole): received little scientific attention. *The Initiation- Forestry Research and Environment Conservation* 4(4):8-13.
64. **Aryal A**, S Sathyakumar and CC Schwartz. **2010**. Current status of the brown bear in Manaslu Conservation Area Nepal. *Ursus* 21(1):109-114.
65. **Aryal A**, D Raubenheimer, S Subedi, B Kattel. **2010**. Spatial habitat overlap & habitat preference of Himalayan musk deer '*Moschus chrysogaster*' in Sagarmatha (Mt. Everest) National Park, Nepal. *Current Research Journal of Biological Sciences* 2(3):217-225.
66. **Aryal A**, S Gastaur, S Menzel, TB Chhetri and J Hopkins. **2010**. Estimation of blue sheep population parameters in the Dhorpatan Hunting Reserve, Nepal. *International Journal of Biodiversity and Conservation* 2(3):051-056
67. **Aryal A**, S Sathyakumar and B Kreigenhofer. **2010**. Opportunistic animal's diet depends on prey availability: spring dietary composition of the red fox (*Vulpes vulpes*) in the Dhorpatan Hunting Reserve, Nepal. *Journal of Ecology and the Natural Environment* 2(4): 59-63
68. **Aryal A** and HK Yadav. **2010**. First cameras trap sighting of critically endangered hispid hare (*Caprolagus hispidus*) in Shuklaphanta Wildlife Reserve- Nepal. *World Applied Science Journal* 9(4):367-371.

69. **Aryal A** and B Kreigenhofer. **2009**. Summer diet composition of the common leopard *Panthera pardus* (Carnivora: Felidae) in Nepal. *Journal of Threatened Taxa* 1(11):562-566
70. **Aryal A. 2009**. Conservation status and population density of Himalayan Serow (*Capricornis sumatraensis. thar*) in Annapurna Conservation Area of Nepal. *The Initiation-Forestry Research and Environment Conservation* 3: 12-19
71. **Aryal A**, TK Shrestha, DS Sen, B Upreti and N Gautam. **2009**. Conservation regime and local population ecology of sarus crane (*Grus antigone antigone*) in West-Central Region of Nepal. *Journal of Wetland Ecology* 3:01-011
72. **Aryal A. 2009**. Assessing the feasibility of ecosystems management approached in community forest system in Nepal. *The Greenery - Journal of Environment & Biodiversity* 7(1):64-73