 **CURRICULUM VITAE**

**November**

2022

Dr. Kathreen E. Ruckstuhl

Professor

08

**Fall**

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EDUCATION

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| 1998 | PhD | University of Sherbrooke, Department of Biology, Québec, Canada (Dr. M. Festa-Bianchet) | Foraging behaviour and sociality in Rocky Mountain bighorn sheep (*Ovis canadensis*) |
| 1992 | MSc | Ethology. Institute of Zoology, University of Bern, Switzerland  (Dr. P. Ingold) | Aspects of mother-kid behaviour in alpine chamois (*Rupicapra rupicapra*) and their relation to human disturbance |

ACADEMIC POSITIONS

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| --- | --- | --- |
| 2019-ongoing | Full Professor | Department of Biological Sciences, University of Calgary, Canada |
| 2009-2019 | Associate professor | Department of Biological Sciences, University of Calgary, Canada |
| 2004-2009 | Assistant professor | Department of Biological Sciences, University of Calgary, Canada. With tenure 2009 |
| 1999-2004 | Postdoctoral research fellow | University of Cambridge, Large Animal Research Group, Dept. of Zoology, Cambridge, UK |
| 2001 | Wildlife Ecologist | Institute for Zoo and Wildlife Research (IZW). Berlin, Germany |

(\*) Please note that I was on disability leave from 2015-2017, which explains gaps in my academic activities.

SABBATICALS

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| --- | --- | --- |
| 2019 | Cambridge University. Visiting Fellow at Clare Hall | On sociality, collaboration on a book with Prof. Tim Clutton-Brock |
| 2010-2011 | Cambridge University. Visiting Fellow at Clare Hall & Wolfson College, UK | Social networks/LRS and survival in red deer |

FUNDING

|  |  |  |  |
| --- | --- | --- | --- |
| Co-applicant on an ACA research grant (Dr. Jocelyn Poissant) | 2020-2021 | Microbiome and Nemabiome of bighorn sheep | Can$ 20,000 |
| NSERC Discovery grant-PI | 2018-2024 | Behavioural ecology, social networks and parasite-host interactions | Can$ 42,000/y |
| Co-applicant on an ACA research grant (Dr. Susan Kutz, Ecosystem and Public Health UCVD as lead PI) | 2017 | Development and application of molecular epidemiology tools to define bighorn sheep parasite communities and guide management | Can$ 35,200 |
| Project team member on an APRI (Alberta Prion Research Institute) research grant (Evelyn Merrill U of A, lead PI) | 2017 | Quantifying contact rates for modeling CWD transmission in wild mule deer populations | Can$ 260,000 |
| NSERC Discovery Grant PI | 2017-2018 | Research on mate choice, social networks, and disease transmission in ungulates | Can$ 21,000 |
| NSERC Discovery Grant PI | 2012-2017 | Research on mate choice, social networks, and disease transmission in ungulates | Can$ 105,000 |
| Wild Sheep Foundation Alberta (AFNAWS) PI | 2009-2011 | Population recruitment, disease and genetic make-up in a meta-population of bighorn sheep in southwestern Alberta. | Can$ 56,000 |
| NSERC (Natural Science Engineering and Research Council of Canada) Discovery Grant PI | 2004-2010 | Social aspects and decision-making in vertebrates | Can$ 120,000 |
| Alberta Conservation Association (ACA) PI with Co-PI Dr. John T. Hogg, Montana Conservation Science Institute, Missoula, MT | 2008-2009 | In support of the bighorn sheep breeding migration project | Can$ 21,000 |
| National Geographic Society co-PI with Dr. Hogg | 2008-2009 | In support of the breeding migration project. PIs Jack Hogg & myself | US$ 21,000 |
| The Engelhard Foundation | 2007-2008 | Given to John T. Hogg (senior research associate) and myself to support the breeding migration study on bighorn sheep with AI as main funding source. | US$ 25,000 |
| The Eppley Foundation for Research | 2007-2009 | Given to John T. Hogg (senior research associate) and myself to support the breeding migration study on bighorn sheep that has Alberta Ingenuity (AI) as main funding source. | US$ 20,000 |
| Alberta Ingenuity (AI) New Faculty award PI | 2006-2009 | Mating systems at large spatial scales: The behavioural ecology of breeding migrations in Rocky Mountain bighorn sheep | Can$ 300,000 |
| URGC travel grant | 2007 | University internal travel grant to attend the meeting of the Society for Integrative and Comparative Biology (SICB) in Phoenix, Arizona, US | Can$ 1,600 |
| U of C Starter Grant | 2005 | Consequences of group choice and costs of synchrony in schooling fish. This is a University of Calgary competitive grant for starting researchers | Can$ 10,000 |
| NSERC Postdoctoral fellowship grant | 2001-2003 | Research on the causes of sexual segregation in mammals | Can$ 70,000 |
| EU Marie Curie PDF/ Swiss National Science Foundation (SNF) | 1999-2001 | Research on the evolution of social sexual segregation in ungulates | SFR 70,000 |
| 2000 CANADA-UK Millennium Research Award | 2001-2003 | These awards were part of the Canada-United Kingdom Joint Declaration Action Plan, a memorandum of understanding of scientific co-operation between NSERC and the Royal Society of London. Up to 10 postdoctoral candidates were selected per year | Can$ 10,000 |
| ACA Challenge Grants in Biodiversity | 1995-1997 | Research on bighorn sheep foraging behaviour, range management and sexual segregation | Can$ 9,000 |
| Travel Grant from the Swiss Academy of Science (SANW) | 1999-2000 | Travel to Namibia, South Africa and Botswana to study sexual segregation in oryx and zebra. | SFR 10,000 |
| Swiss Society for Wildlife Research Conference Grant | 2001 | To attend and present at the Mammal Society Conference in Finland | SFR 2,000 |

RECOGNITIONS & AWARDS

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| Type of recognition | Year | Type of activity |
| Plaque for Editorship in the journal of Animal Behaviour between 2016-2019 | 2021 | Editorial plaque, with deep appreciation for my dedication and commitment and a journal editor |
| Award for best technical research paper | 2021 | Awarded at the Alberta Chapter of the Wildlife Society meeting |
| Invited visiting researcher, University of Coimbra, Portugal | 2015 | 2-week University of Coimbra fellowship to explore and write papers with collaborators |
| Clare Hall College Fellow, Cambridge, UK | 2011 | *Elected to life* *membership* of Clare Hall College, Cambridge, UK |
| Clare Hall College Visiting Researcher, Cambridge, UK | 2010-2011 | *Awarded* a paid Visiting Fellowship at Clare Hall College, Cambridge, UK |
| Visiting Fellowship at Wolfson College, Cambridge, UK | 2001-2003,  2010-2011 | Awarded a PDF Fellowship Grant  Returning Visiting Alumni |
| National Register’s WHO’S WHO in Science | 2001 | Listed in 2001 edition |
| CAS C. LINDSEY Award of the CSZ | 1998 | Honourable mention, for the best student presentation within the fields of behaviour, ecology and evolution at the Conference of the Canadian Society of Zoologists, Kelowna Canada |

PAPERS IN PEER-REVIEWED JOURNALS

\*indicating HQP co-authors

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Nr. | Author(s) | Title | Journal | Volume | Pages | Year |
|  | CHEN Chen, António Alves da Silva, WANG Muyang, Wenxuan Xu, YANG Weikang, Kathreen E. Ruckstuhl, and Joana Alves | Dynamic analysis of potential habitat corridor distribution of Khulan *Equus hemionus* in Western China. | Ecological Conservation | In press |  | 2022 |
|  | [LeiHan](https://www.sciencedirect.com/science/article/pii/S1470160X22010159" \l "!), [ZhiWangb](https://www.sciencedirect.com/science/article/pii/S1470160X22010159#!)[MengmengWei](https://www.sciencedirect.com/science/article/pii/S1470160X22010159" \l "!), MuyangWang, [HuiShi](https://www.sciencedirect.com/science/article/pii/S1470160X22010159#!), [KathreenRuckstuhl](https://www.sciencedirect.com/science/article/pii/S1470160X22010159#!), [WeikangYang](https://www.sciencedirect.com/science/article/pii/S1470160X22010159#!), [JoanaAlvesj](https://www.sciencedirect.com/science/article/pii/S1470160X22010159#!) | **Small patches play a critical role in the connectivity of the Western Tianshan landscape, Xinjiang, China** | Ecological indicators | 144 | 109542 | 2022 |
|  | Hee, Olivia, Windeyer, M. Claire, Ruckstuhl, Kathreen, Neuhaus, Peter, Caulkett, Nigel | A preliminary study to evaluate the effectiveness of laryngeal mask airways in anesthetized bighorn sheep (*Ovis canadensis*) lambs | Journal of Zoo and Wildlife Medicine  https://doi.org/10.1638/2022-0019 | 53 (3) : | 537-544 | 2022 |
|  | Yingying Zhuo, Muyang Wang, Baolin Zhang, Kathreen E. Ruckstuhl, António Alves da Silva, Weikang Yang, Joana Alves | Climate change and human disturbance combined have limited the distribution of Siberian ibex Capra sibirica in eastern Pamir | Diversity-1845464 |  |  | 2022 |
|  | Muyang Wang, Wenxuan Xu, David Blank, António Alves Da Silva, Weikang Yang \*, Kathreen E. Ruckstuhl, Joana Alves | Goitered gazelle Gazella subgutturosa responded to human disturbance by increasing vigilance rather than changing the group size. | Biology | 11 (1236) |  | 2022 |
|  | Patterson, Molly; Caulkett, Nigel; Neuhaus, Peter; Pasloske, Kirby; Ruckstuhl, Kathreen; | The utility of a novel formulation of alfaxalone in a remote delivery system | Veterinary Anaesthesia and Analgesia | 48 | 537-540 | 2021 |
|  | Santa, Maria A; Rezansoff, Andrew M; Chen, Rebecca; Gilleard, John S; Musiani, Marco; Ruckstuhl, Kathreen E; Massolo, Alessandro; | Deep amplicon sequencing highlights low intra-host genetic variability of Echinococcus multilocularis and high prevalence of the European-type haplotypes in coyotes and red foxes in Alberta, Canada | PLoS Neglected Tropical Diseases | 15 (5) | e0009428 | 2021 |
|  | Wang, Muyang; Liu, Wei; da Silva, António Alves; Xu, Wenxuan; Yang, Weikang; Ruckstuhl, Kathreen E; Alves, Joana; | Low size dimorphism does not lead to reduced sexual segregation: exploring effects of habitat divergence and activity | Animal Behaviour | 179 | 225-233 | 2021 |
|  | Santa, Maria A; Musiani, Marco; Ruckstuhl, Kathreen E; Massolo, Alessandro; | A review on invasions by parasites with complex life cycles: the European strain of Echinococcus multilocularis in North America as a model | Parasitology | 148 | 1532-1544 | 2021 |
|  | Aivaz, Angela N; Manica, Andrea; Neuhaus, Peter; Ruckstuhl, Kathreen E; | Picky predators and odd prey: colour and size matter in predator choice and zebrafish’s vulnerability–a refinement of the oddity effect | Ethology Ecology & Evolution | 32 | 135-147 | 2020 |
|  | Aleuy, O Alejandro; Peacock, Stephanie; Hoberg, Eric P; Ruckstuhl, Kathreen E; Brooks, Taylor; Aranas, Mackenzie; Kutz, Susan; | Phenotypic plasticity and local adaptation in freeze tolerance: Implications for parasite dynamics in a changing world | International journal for parasitology | 50 | 161-169 | 2020 |
|  | Vilela, Sofia; Alves da Silva, António; Palme, Rupert; Ruckstuhl, Kathreen E; Sousa, José Paulo; Alves, Joana; | Physiological stress reactions in red deer induced by hunting activities | Animals | 10 | 1003 | 2020 |
|  | Han, Lei; Blank, David; Wang, Muyang; da Silva, António Alves; Yang, Weikang; Ruckstuhl, Kathreen; Alves, Joana; | Diet differences between males and females in sexually dimorphic ungulates: a case study on Siberian ibex | European journal of wildlife research | 66 | 44571 | 2020 |
|  | Aleuy, O Alejandro; Serrano, Emmanuel; Ruckstuhl, Kathreen E; Hoberg, Eric P; Kutz, Susan; | Parasite intensity drives fetal development and sex allocation in a wild ungulate | Scientific reports | 10 | 44571 | 2020 |
|  | Schindler, Susanne; Ruckstuhl, Kathreen E; Neuhaus, Peter; | Male mating behaviour affects growth of secondary sexual traits: a mechanism for rapid phenotypic change | Animal Behaviour | 169 | 129-138 | 2020 |
|  | Santa, Maria A; Pastran, Sonya; Klein, Claudia; Ruckstuhl, Kathreen; Massolo, Alessandro; | Evaluation of an automated magnetic bead-based DNA extraction and real-time PCR in fecal samples as a pre-screening test for detection of Echinococcus multilocularis and Echinococcus canadensis in coyotes | Parasitology research | 118 | 119-125 | 2019 |
|  | Aleuy, O Alejandro; Hoberg, Eric P; Paquette, Chelsey; Ruckstuhl, Kathreen E; Kutz, Susan; | Adaptations and phenotypic plasticity in developmental traits of Marshallagia marshalli | International journal for parasitology | 49 | 789-796 | 2019 |
|  | Bourgoin, Gilles; Marchand, Pascal; Hewison, AJ Mark; Ruckstuhl, Kathreen E; Garel, Mathieu; | Social behaviour as a predominant driver of sexual, age-dependent and reproductive segregation in Mediterranean mouflon | Animal Behaviour | 136 | 87-100 | 2018 |
|  | Wang, Muyang; Alves, Joana; da Silva, António Alves; Yang, Weikang; Ruckstuhl, Kathreen E; | The effect of male age on patterns of sexual segregation in Siberian ibex | Scientific reports | 8 | 44570 | 2018 |
|  | Aleuy, O Alejadro; Ruckstuhl, Kathreen; Hoberg, Eric P; Veitch, Alasdair; Simmons, Norman; Kutz, Susan J; | Diversity of gastrointestinal helminths in Dall's sheep and the negative association of the abomasal nematode, Marshallagia marshalli, with fitness indicators | PLoS One | 13 | e0192825 | 2018 |
|  | McDougall, Petra L; Ruckstuhl, Kathreen E; | Doing what your neighbour does: neighbour proximity, familiarity and postural alignment increase behavioural mimicry | Animal Behaviour | 135 | 177-185 | 2018 |
|  | Wang, Muyang; González, Manuel Antonio; Yang, Weikang; Neuhaus, Peter; Blanco-Fontao, Beatriz; Ruckstuhl, Kathreen E; | The probable strong decline of the Great Bustard Otis tarda tarda population in North-Western China | Ardeola | 65 | 291-297 | 2018 |
|  | Williams, Maggie; Caulkett, Nigel; Neuhaus, Peter; Ruckstuhl, Kathreen; Boysen, Soren; Fahlman, Åsa; | Comparison of the efficacy and safety of medetomidine-ketamine versus medetomidine-azaperone-alfaxalone combination in free-ranging rocky mountain bighorn sheep (Ovis canadensis) | Journal of Zoo and Wildlife Medicine | 49 | 662-670 | 2018 |
|  | Wang, Muyang; Alves, Joana; Tucker, Meghan; Yang, Weikang; Ruckstuhl, Kathreen E; | Effects of intrinsic and extrinsic factors on ruminating, grazing, and bedding time in bighorn sheep (Ovis canadensis) | PloS one | 13 | e0206664 | 2018 |
|  | Santa, Maria A; Pastran, Sonya A; Klein, Claudia; Duignan, Padraig; Ruckstuhl, Kathreen; Romig, Thomas; Massolo, Alessandro; | Detecting co-infections of Echinococcus multilocularis and Echinococcus canadensis in coyotes and red foxes in Alberta, Canada using real-time PCR | International Journal for Parasitology: Parasites and Wildlife | 7 | 111-115 | 2018 |
|  | McDougall, Petra L; Ruckstuhl, Kathreen E; | Vigilance behaviour is more contagious when chewing stops: examining the characteristics of contagious vigilance in bighorn sheep | Behavioral Ecology and Sociobiology | 72 | 44571 | 2018 |
|  | González, Manuel Antonio; Blanco-Fontao, Beatriz; Martínez, Daniel; Santos-Fuentes, Alejandro; Neuhaus, Peter; Ruckstuhl, Kathreen E; | Preliminary results on snow surveys of Pyrenean grey partridge (Perdix perdix hispaniensis) in the Cantabrian Mountains | European Journal of Wildlife Research | 63 | 44567 | 2017 |
|  | Blank, DA; Ruckstuhl, K; Yang, W; | Development of juvenile goitered gazelle social behavior during the hiding period | Behavioural processes | 144 | 82-88 | 2017 |
|  | Dalton, Chimoné S; van de Rakt, Karen; Fahlman, Åsa; Ruckstuhl, Kathreen; Neuhaus, Peter; Popko, Richard; Kutz, Susan; van der Meer, Frank; | Discovery of herpesviruses in Canadian wildlife | Archives of virology | 162 | 449-456 | 2017 |
|  | Li, Bang; Wang, Muyang; Blank, David A; Xu, Wenxuan; Yang, Weikang; Ruckstuhl, Kathreen E; | Sexual segregation in the Darwin's wild sheep, Ovis ammon darwini,(Bovidae, Artiodactyla), in the Mengluoke Mountains of Xinjiang, China | Folia Zoologica | 66 | 126-132 | 2017 |
|  | Wang, Mu-Yang; Ruckstuhl, Kathreen E; Xu, Wen-Xuan; Blank, David; Yang, Wei-Kang; | Human activity dampens the benefits of group size on vigilance in khulan (Equus hemionus) in Western China | PLoS One | 11 | e0146725 | 2016 |
|  | Liccioli, Stefano; Bialowas, Carly; Ruckstuhl, Kathreen E; Massolo, Alessandro; | Feeding ecology informs parasite epidemiology: prey selection modulates encounter rate with Echinococcus multilocularis in urban coyotes | PLoS One | 10 | e0121646 | 2015 |
|  | Blank, David; Ruckstuhl, Kathreen; Yang, Weikang; | The economics of scent marking with urine and feces in goitered gazelle (Gazella subgutturosa) | Mammal Research | 60 | 51-60 | 2015 |
|  | Blank, DA; Ruckstuhl, K; Yang, W; | Antipredator strategy of female goitered gazelles (Gazella subgutturosa Guld., 1780) with hiding fawn | Behavioural Processes | 119 | 44-49 | 2015 |
|  | Patterson, Jesse EH; Neuhaus, Peter; Kutz, Susan J; Ruckstuhl, Kathreen E; | Patterns of ectoparasitism in North American red squirrels (Tamiasciurus hudsonicus): Sex-biases, seasonality, age, and effects on male body condition | International Journal for Parasitology: Parasites and Wildlife | 4 | 301-306 | 2015 |
|  | Blank, DA; Ruckstuhl, K; Yang, W; | Seasonal dynamics of agonistic displays in territorial and non-territorial males of goitered gazelle | Zoology | 118 | 63-68 | 2015 |
|  | Liccioli, Stefano; Rogers, Sean; Greco, Claudia; Kutz, Susan J; Chan, Florence; Ruckstuhl, Kathreen E; Massolo, Alessandro; | Assessing individual patterns of E chinococcus multilocularis infection in urban coyotes: non‐invasive genetic sampling as an epidemiological tool | Journal of Applied Ecology | 52 | 434-442 | 2015 |
|  | Blank, David A; Ruckstuhl, Kathreen; Yang, Weikang; | Secretion marking with preorbital glands in goitered gazelle, Gazella subgutturosa (Artiodactyla: Bovidae) | Folia Zoologica | 63 | 127-136 | 2014 |
|  | Liccioli, Stefano; Kutz, Susan J; Ruckstuhl, Kathreen E; Massolo, Alessandro; | Spatial heterogeneity and temporal variations in Echinococcus multilocularis infections in wild hosts in a North American urban setting | International Journal for Parasitology | 44 | 457-465 | 2014 |
|  | Blank, DA; Ruckstuhl, K; Yang, W; | Roaring function in male goitered gazelles | Behavioural processes | 106 | 152-159 | 2014 |
|  | Patterson, Jesse EH; Neuhaus, Peter; Kutz, Susan J; Ruckstuhl, Kathreen E; | Parasite removal improves reproductive success of female North American red squirrels (Tamiasciurus hudsonicus) | PLoS One | 8 | e55779 | 2013 |
|  | Andres, Daniel; Clutton-Brock, Tim H; Kruuk, Loeske EB; Pemberton, Josephine M; Stopher, Katie V; Ruckstuhl, Kathreen E; | Sex differences in the consequences of maternal loss in a long-lived mammal, the red deer (Cervus elaphus) | Behavioral Ecology and Sociobiology | 67 | 1249-1258 | 2013 |
|  | Patterson, Jesse EH; Ruckstuhl, Kathreen E; | Parasite infection and host group size: a meta-analytical review | Parasitology | 140 | 803-813 | 2013 |
|  | Fury, Christine Ann; Ruckstuhl, Kathreen E; Harrison, Peter L; | Spatial and social sexual segregation patterns in Indo-Pacific bottlenose dolphins (Tursiops aduncus) | PloS one | 8 | e52987 | 2013 |
|  | McDougall, Petra L; Ruckstuhl, Kathreen E; | Age-Related Changes in Vigilance Behaviour: The Role of Fixed Gaze Durations | CANADIAN JOURNAL OF EXPERIMENTAL PSYCHOLOGY-REVUE CANADIENNE DE PSYCHOLOGIE EXPERIMENTALE | 67 | 297-297 | 2013 |
|  | Fahlman, Åsa; Caulkett, Nigel; Arnemo, Jon M; Neuhaus, Peter; Ruckstuhl, Kathreen E; | Efficacy of a portable oxygen concentrator with pulsed delivery for treatment of hypoxemia during anesthesia of wildlife | Journal of Zoo and Wildlife Medicine | 43 | 67-76 | 2012 |
|  | Forde, Taya; Kutz, Susan; Buck, Jeroen De; Warren, Amy; Ruckstuhl, Kathreen; Pybus, Margo; Orsel, Karin; | Occurrence, diagnosis, and strain typing of Mycobacterium avium subspecies paratuberculosis infection in Rocky Mountain bighorn sheep (Ovis canadensis canadensis) in southwestern Alberta | Journal of Wildlife Diseases | 48 | 44572 | 2012 |
|  | Liccioli, Stefano; Catalano, Stefano; Kutz, Susan J; Lejeune, M; Verocai, GG; Duignan, Padraig J; Fuentealba, Carmen; Hart, Megan; Ruckstuhl, Kathreen E; Massolo, Alessandro; | Gastrointestinal parasites of coyotes (Canis latrans) in the metropolitan area of Calgary, Alberta, Canada | Canadian Journal of Zoology | 90 | 1023-1030 | 2012 |
|  | -i-Abbas, Fakhar; Ruckstuhl, Kathreen E; Mian, Afsar; Akhtar, Tanveer; Rooney, Thomas P; | Distribution, population size, and structure of Himalayan grey goral Naemorhedus goral bedfordi (Cetartiodactyla: Bovidae) in Pakistan |  |  |  | 2012 |
|  | Koren, Lee; Whiteside, Douglas; Fahlman, Åsa; Ruckstuhl, Kathreen; Kutz, Susan; Checkley, Sylvia; Dumond, Mathieu; Wynne-Edwards, Katherine; | Cortisol and corticosterone independence in cortisol-dominant wildlife | General and comparative endocrinology | 177 | 113-119 | 2012 |
|  | Blank, D; Ruckstuhl, KE; Yang, W; | Social organization in goitered gazelle (Gazella subgutturosa Güldenstaedt 1780) | Ethology Ecology & Evolution | 24 | 306-321 | 2012 |
|  | Bueno, Celia; Ruckstuhl, KE; Arrigo, Nils; Aivaz, AN; Neuhaus, Peter; | Impacts of cattle grazing on small-rodent communities: an experimental case study | Canadian Journal of Zoology | 90 | 22-30 | 2012 |
|  | Blank, David; Ruckstuhl, Kathreen; Yang, Weikang; | Influence of population density on group sizes in goitered gazelle (Gazella subgutturosa Guld., 1780) | European Journal of Wildlife Research | 58 | 981-989 | 2012 |
|  | Blank, David A; Ruckstuhl, Kathreen E; Yang, Weikang; | Sexual segregation in goitered gazelles (Gazella subgutturosa) | Canadian journal of zoology | 90 | 955-960 | 2012 |
|  | Liccioli, Stefano; Catalano, Stefano; Kutz, Susan J; Lejeune, Manigandan; Verocai, Guilherme G; Duignan, Padraig J; Fuentealba, Carmen; Ruckstuhl, Kathreen E; Massolo, Alessandro; | Sensitivity of double centrifugation sugar fecal flotation for detecting intestinal helminths in coyotes (Canis latrans) | Journal of Wildlife Diseases | 48 | 717-723 | 2012 |
|  | Hoar, Bryanne M; Ruckstuhl, Kathreen; Kutz, Susan; | Development and availability of the free-living stages of Ostertagia gruehneri, an abomasal parasite of barrenground caribou (Rangifer tarandus groenlandicus), on the Canadian tundra | Parasitology | 139 | 1093-1100 | 2012 |
|  | Forde, Taya; Kutz, Susan; De Buck, Jeroen; Warren, Amy; Ruckstuhl, Kathreen; Pybus, Margo; Orsel, Karin; | BACTERIOLOGY AND MYCOLOGY-Occurrence, diagnosis, and strain typing of Mycobacterium avium subspecies paratuberculosis infection in Rocky Mountain bighorn sheep (Ovis canadensis canadensis) in southwestern Alberta. | Journal of Wildlife Diseases | 48 | 1 | 2012 |
|  | Brown, NA; Ruckstuhl, KE; | Differences in Vegetation and Native Ungulate use between Exclosures and Cattle Grazed Plots in Sheep River Provincial Park, Alberta | Journal of Ecosystem and Ecography | 2 | 112-120 | 2012 |
|  | Aivaz, Angela N; Ruckstuhl, Kathreen E; | Costs of behavioral synchrony as a potential driver behind size-assorted grouping | Behavioral Ecology | 22 | 1353-1363 | 2011 |
|  | deBruyn, Nathan P; Hoberg, Eric P; Chilton, Neil; Ruckstuhl, Kathreen; Brook, Ryan; Kutz, Susan; | Application of a molecular tool to describe the diversity and distribution of gastro-intestinal parasites in northern caribou | Rangifer | 31 | 149 | 2011 |
|  | Brown, Natalia A; Ruckstuhl, Kathreen E; Donelon, Steve; Corbett, Corey; | Changes in vigilance, grazing behaviour and spatial distribution of bighorn sheep due to cattle presence in Sheep River Provincial Park, Alberta | Agriculture, ecosystems & environment | 135 | 226-231 | 2010 |
|  | Moquin, Paul; Curry, Ben; Pelletier, Fanie; Ruckstuhl, Kathreen E; | Plasticity in the rumination behaviour of bighorn sheep: contrasting strategies between the sexes? | Animal Behaviour | 79 | 1047-1053 | 2010 |
|  | Ferrari, Nicola; Rosà, Roberto; Lanfranchi, Paolo; Ruckstuhl, Kathreen E; | Effect of sexual segregation on host–parasite interaction: Model simulation for abomasal parasite dynamics in alpine ibex (Capra ibex) | International journal for parasitology | 40 | 1285-1293 | 2010 |
|  | Ruckstuhl, Kathreen E; Colijn, Grant P; Amiot, Volodymyr; Vinish, Erin; | Mother's occupation and sex ratio at birth | BMC Public Health | 10 | 44572 | 2010 |
|  | Ruckstuhl, KE; Neuhaus, P; | Activity budgets and sociality in a monomorphic ungulate: the African oryx (Oryx gazella) | Canadian Journal of Zoology | 87 | 165-174 | 2009 |
|  | Meldrum, Gennifer E; Ruckstuhl, Kathreen E; | Mixed-sex group formation by bighorn sheep in winter: trading costs of synchrony for benefits of group living | Animal Behaviour | 77 | 919-929 | 2009 |
|  | N Ferrari, R Rosà, P Lanfranchi, KE Ruckstuhl | [Effect of sexual segregation on host–parasite interaction: Model simulation for abomasal parasite dynamics in alpine ibex (Capra ibex)](https://scholar.google.ca/citations?view_op=view_citation&hl=en&user=G_V5YdcAAAAJ&cstart=20&pagesize=80&sortby=pubdate&citation_for_view=G_V5YdcAAAAJ:j3f4tGmQtD8C) | International journal for parasitology 40 (11), 1285-1293 | 40 | 1285-1293 | 2010 |
|  | Ruckstuhl, KE; Johnson, EA; Miyanishi, K; | Introduction. The boreal forest and global change | Philosophical Transactions of the Royal Society B: Biological Sciences | 363 | 2243-2247 | 2008 |
|  | Ruckstuhl, KE; | Sexual segregation in vertebrates: proximate and ultimate causes | Integrative and Comparative Biology | 47 | 245-257 | 2007 |
|  | Ruckstuhl, KE; Manica, A; MacColl, ADC; Pilkington, JG; Clutton-Brock, TH; | The effects of castration, sex ratio and population density on social segregation and habitat use in Soay sheep | Behavioral Ecology and Sociobiology | 59 | 694-703 | 2006 |
|  | Ruckstuhl, KE; | Sexual segregation in ungulates: proximate and ultimate causes | INTEGRATIVE AND COMPARATIVE BIOLOGY | 46 | E122-E122 | 2006 |
|  | Chaikina, Natalia A; Ruckstuhl, Kathreen E; | The effect of cattle grazing on native ungulates: the good, the bad, and the ugly | Rangelands | 28 | 44787 | 2006 |
|  | Neuhaus, Peter; Ruckstuhl, Kathreen; | Reply to Mooring & Rominger | Behaviour | 141 | 531-532 | 2004 |
|  | Neuhaus, Peter; Ruckstuhl, Kathreen; | Can the activity budget hypothesis explain sexual segregation in desert bighorn sheep? | Behaviour | 141 | 513-520 | 2004 |
|  | Ruckstuhl, KE; Festa-Bianchet, M; Jorgenson, JT; | Bite rates in Rocky Mountain bighorn sheep (Ovis canadensis): effects of season, age, sex and reproductive status | Behavioral Ecology and Sociobiology | 54 | 167-173 | 2003 |
|  | Ruckstuhl, Kathreen E; Neuhaus, Peter; | Sexual segregation in ungulates: a comparative test of three hypotheses | Biological Reviews | 77 | 77-96 | 2002 |
|  | Neuhaus, P; Ruckstuhl, KE; | The link between sexual dimorphism, activity budgets, and group cohesion: the case of the plains zebra (Equus burchelli) | Canadian Journal of Zoology | 80 | 1437-1441 | 2002 |
|  | Neuhaus, P; Ruckstuhl, KE; | Foraging behaviour in Alpine ibex (Capra ibex): consequences of reproductive status, body size, age and sex | Ethology Ecology & Evolution | 14 | 373-381 | 2002 |
|  | Ruckstuhl, KE; Kokko, H; | Modelling sexual segregation in ungulates: effects of group size, activity budgets and synchrony | Animal Behaviour | 64 | 909-914 | 2002 |
|  | Ruckstuhl, Kathreen E; Festa‐Bianchet, Marco; | Group choice by subadult bighorn rams: trade‐offs between foraging efficiency and predator avoidance | Ethology | 107 | 161-172 | 2001 |
|  | Ruckstuhl, Kathreen; Neuhaus, Peter; | Behavioral synchrony in ibex groups: effects of age, sex and habitat | Behaviour | 138 | 1033-1046 | 2001 |
|  | Ruckstuhl, Kathreen; Neuhaus, Peter; | Sexual segregation in ungulates: a new approach | Behaviour | 137 | 361-377 | 2000 |
|  | Ruckstuhl, Kathreen Eva; | L'ecologie du comportement alimentaire et la socialite chez le mouflon d'Amerique, Ovis canadensis. |  |  |  | 2000 |
|  | Ruckstuhl, KE; Festa-Bianchet, M; Jorgenson, JT; | Effects of prescribed grassland burns on the forage availability, quality and bighorn sheep use | Biennial Symposium of the Northern Wild Sheep and Goat Council, Whitehorse, Yukon | 12 | 44890 | 2000 |
|  | Ruckstuhl, Kathreen E; Ingold, P; | Aspects of mother-kid behavior in Alpine chamois, Rupicapra rupicapra rupicapra | Zeitschrift fuer Saeugetierkunde (Germany) |  |  | 1999 |
|  | Ruckstuhl, Kathree E; | To synchronise or not to synchronise: a dilemma for young bighorn males? | Behaviour | 136 | 805 | 1999 |
|  | Ruckstuhl, Kathreen E; | Foraging behaviour and sexual segregation in bighorn sheep | Animal behaviour | 56 | 99-106 | 1998 |
|  | Ruckstuhl, Kathreen E; Festa‐Bianchet, Marco; | Do reproductive status and lamb gender affect the foraging behavior of bighorn ewes? | Ethology | 104 | 941-954 | 1998 |
|  | Ruckstuhl, KE; Ingold, P; | Baby-sitting in chamois: a form of cooperation in females? | Mammalia (Paris) | 62 | 125-128 | 1998 |
|  | RUCKSTUHL, K; Ingold, P; | On the suckling behaviour of Alpine chamois Rupicapra rupicapra rupicapra | Zeitschrift für Säugetierkunde | 59 | 230-235 | 1994 |

MANUSCRIPTS (submitted/in progress)

1. Oscar Ale Aleuy et al (2022): Local thermal adaptation and local temperature regimes drive the performance of parasitic helminths under climate change: the case of Marshallagia marshalli fromwild ungulates. Submitted to Global change Biology Nov 15, 2022
2. C. Maxwell\*, P. McDougall\*, A. Manica and **KE. Ruckstuhl** (2018): Insights into perceptual processing in bighorn sheep (*Ovis canadensis canadensis*). Changes needed.
3. Ruckstuhl et al. …Red deer social networks (in revision).

Books, book chapters, special issues

1. **KE. Ruckstuhl**, EA Johnson, & K. Myianishi (2008): The boreal forest and global change. Philosophical Transactions of the Royal Society B. 363 (1501): 2245-2375. DOI 10.1098/rstb.2007.2196. I was the editor of the special issue and the first author on a chapter.
2. **KE. Ruckstuhl**, & P. Neuhaus (2006): Sexual segregation in vertebrates: ecology of the two sexes. Editors: **KE. Ruckstuhl** & P. Neuhaus. Cambridge University Press. 488 pages.
3. **KE. Ruckstuhl** & TH. Clutton-Brock (2006): Sexual segregation and the ecology of the two Sexes. Introductory chapter. Editors: **KE. Ruckstuhl** & P. Neuhaus. Cambridge University Press. Pp: 3-7.
4. **KE. Ruckstuhl** & P. Neuhaus (2006): Activity asynchrony and social segregation. In: Sexual segregation in vertebrates: ecology of the two sexes. Editors: **KE. Ruckstuhl** & P. Neuhaus. Cambridge University Press. Pp: 165-179.
5. P. Neuhaus, **KE. Ruckstuhl** & L. Conrad (2006): Sexual segregation in vertebrates: Conclusions and future directions for research. In: Sexual segregation in vertebrates: ecology of the two sexes. Editors: **KE. Ruckstuhl** & P. Neuhaus. Cambridge University Press. Pp: 395-402.
6. **KE. Ruckstuhl** & P. Neuhaus (2011): Sexual segregation in vertebrates: ecology of the two sexes. Cambridge University Press. Paperback edition.

CONFERENCE PRESENTATIONS

1. Ruckstuhl, K.E., Mah, M. and Hogg, J.T.: Talk on breeding migrations in female bighorn sheep. Northern Wild Sheep and Goat Council Biannual Conference. May 2022.
2. Henry, T. and K. Ruckstuhl. 2022. Are Aspects of Horn Morphology Associated with Male Bighorn Sheep Reproductive Success and Female Mate-Choice? Talk at Animal Behaviour Society Annual Conference (online).
3. Henry, T. and K. Ruckstuhl. 2022. Hornography: Using Photogrammetry and 2D Measurement as Non-invasive Methods to Assess Rocky Mountain Bighorn Sheep Horn Morphology. Presentation. Northern Wild Sheep and Goat Council Biannual Conference.
4. Henry, T and K. Ruckstuhl. 2021 Do aspect of horn morphology affect male bighorn sheep reproductive success and female mate choice? Poster Presentation. Animal Behaviour Society Annual Conference.
5. Ryan G. Tate and **K.E. Ruckstuhl**
6. Caeley Thacker, Helen Schwantje, Thomas Lohuis, **Kathreen Ruckstuhl**, Doug Whiteside 2021) Health surveillance of thinhorn sheep (Ovis dalli) herds in British Columbia and Alaska. Talk st the *22nd Biennial Northern Wild Sheep Council Symposium-2020*
7. **KE. Ruckstuhl**: Of hosts, parasites, migration and climate change: what can long term studies tell us? Talk at the Alberta Chapter of The Wildlife Society meeting (online): 22-6 March 2021
8. Expert panel member in ‘Species on the move’, Alberta Chapter of The Wildlife Society meeting (online): 22-6 March 2021
9. McDougall, P\*., **Ruckstuhl, K.** (2017) Vigilance is about more than just watching for predators. Accepted presentation (for May 11th) at the *Canadian Society for Ecology and Evolution Annual Conference,* Victoria, BC.
10. McDougall, P\*., **Ruckstuhl, K.,** and Gonzalez M.A. (2017). Vigilance is about more than just watching for predators: Social mimicry of vigilance behaviour contributes to group cohesion. Poster presentation at the *Alberta Chapter of The Wildlife Society Annual Conference,* Lac La Biche, Alberta.
11. **Maggie Grover** et al. 2017- A comparison of the efficacy and safety of medetomidine-ketamine to a novel medetomidine-azaperone-alfaxalone combination in wild rocky mountain bighorn sheep (*Ovis canadensis*). Talk presented at the American Association of Zoo Veterinarians.
12. S. Liccioli\*, M. Lejeune, P. Duignan,SJ. Kutz, S. Rogers, **KE Ruckstuhl** and A. Massolo. When feces matter: a synthesis of a multiannual investigation of *Echinococcus multilocularis* transmission ecology in a North American urban setting. 63rd Annual International Conference of the Wildlife Disease Association, Queensland, Australia, July 26-30th 2015
13. S. Liccioli\*, SJ. Kutz, **KE. Ruckstuhl** and A. Massolo: Patterns of *Echinococcus multilocularis* infection in urban coyotes (*Canis latrans*) are associated with seasonality and small mammal assemblage composition. International Congress on Parasites of Wildlife – Kruger National Park, South Africa - September 10-14, 2014
14. S. Liccioli\*, SJ. Kutz, **KE Ruckstuhl**, and A. Massolo: Spatial heterogeneity and temporal variations in *Echinococcus multilocularis* infections in wild hosts in a North American urban setting. Alberta Chapter of the Wildlife Society meeting, Jasper, Alberta, March 9-11, 2014.
15. S. Liccioli\*, **KE. Ruckstuhl** and A. Massolo: Spatial heterogeneity and seasonal variability of parasite infection: the urban cycle of *Echinococcus multilocularis* in Calgary, AB, Canada. The Wildlife Society Annual Conference – Milwaukee, Wisconsin – October 5-10, 2013.
16. **KE. Ruckstuhl**, J. Pemberton, F. Guinness and TH. Clutton-Brock: The sublime secrets of red deer sisterhoods: social bonds in red deer females. Behaviour 2013. Newcastle Gateshead, England 4-8 August 2013.
17. D. Andres\*, TH. Clutton-Brock, J. Pemberton, L. Kruuk, F. Guinness, K. Stopher and **KE. Ruckstuhl**. Consequences of maternal loss differ between the sexes in a long-lived vertebrate. Joint conference of the Canadian Section and the Alberta Chapter of The Wildlife Society, Canmore, March 8-10, 2013.
18. B. Edwards\*, **KE. Ruckstuhl** & SJ. Kutz: Bow Valley Elk: Survival Strategies in Fragmented Landscapes. January 21, 2013. At WildSmart meeting in Canmore, Alberta.
19. N. Caulkett, Å. Fahlmann, P. Neuhaus, and **KE. Ruckstuhl**: Ground-based darting of bighorn sheep (Ovis canadensis) with medetomidine-ketamine; efficacy and safety. American Association of Zoo Veterinarians (AAZV) 2012.
20. Å. Fahlman, N. Caulkett, **KE. Ruckstuhl**, P. Neuhaus, and P. Wolff: Immobilization with butorphanol-azaperone-medetomidine in desert and Rocky Mountain bighorn sheep: response to oxygen therapy. Wildlife Disease Association meeting, March 2012.
21. **KE Ruckstuhl** (2012): Predation, climate change, disease and social networks in bighorn sheep. Annual meeting of the Alberta Chapter of the Wild Sheep Foundation. March 24, Red Deer, Alberta.
22. K. Orsel, T. Forde\*, M. Pruvot, J. De Buck, **KE. Ruckstuhl**, HW. Barkema,and SJ. Kutz, : Map at the wildlife-cattle interface in southwestern Alberta. 11th International Colloquium on Paratuberculosis (ICP), Sydney, Australia, February 5 -10, 2012.
23. B. Edwards\* & **KE. Ruckstuhl** (2011). Effects of anthropogenic pressures on resource selection and parasite fauna of elk in the Rocky Mountains of Southern Alberta. CSEE meeting, Banff, Canada.
24. AN. Aivaz\*, and **KE. Ruckstuhl** (2011). Costs of synchrony and the effects of oddity in zebrafish (*Danio rerio*). CSEE meeting, Banff, Canada
25. **KE. Ruckstuhl** and TH. Clutton-Brock (2010). Exploring red deer social networks. At the annual Sheep and Deer Meeting, Silwood Park, Imperial College, London, UK. 15-16 December.
26. S. Liccioli\*, A. Smith, **KE. Ruckstuhl** & A. Massolo. 2010. Prevalence and spatial distribution of Gastro-intestinal parasites in urban coyotes (Canis latrans) of Calgary, Alberta. Abstract accepted for the European Wildlife Disease Association (EWDA) Conference. Vieland, Netherlands, 13-16 September 2010,
27. AN. Aivaz\*, and **KE. Ruckstuhl** (2010). Costs of synchrony and the effects of oddity in zebrafish (*Danio rerio*). Meeting of the International Society for Behavioral Ecology in Pirth, Australia (Sept 26-Oct 1, 2010).
28. Å. Fahlman, N. Caulkett, JM. Arnemo, **KE. Ruckstuhl**, P. Neuhaus, M. Woodbury, T. Duke, and V. Wourms; (2010). Oxygen therapy: novel techniques for an essential tool in wildlife anesthesia. Iguazú, Argentina. 59th Annual International Conference of the Wildlife Disease Association.
29. N. Ferrari, R. Rosà, **KE. Ruckstuhl**, and P. Lanfranchi (2008). Consequences of sexual segregation of Alpine Ibex on parasite transmission. GSE-AIESG (Alpine Ibex European Specialist Group) meeting in Torino, Italy.
30. **KE. Ruckstuhl** and GN. Pelchat\* (2008). Buddies for life: associations and coalitions in bighorn sheep rams. International Society of Behavioral Ecology meeting in Ithaca, USA, 10-14 August 2008.
31. BM. Hoar\*, SJ. Kutz, and **KE. Ruckstuhl** (2007). Investigating the effects of climate change on *Ostertagia gruehneri*, an abomasal parasite of caribou. 8th Association of Canadian Universities for Northern Studies Conference, Saskatoon, Saskatchewan.
32. **KE. Ruckstuhl** (2007). Sexual segregation in ungulates: proximate and ultimate causes. Talk given at the Society for Integrative and Comparative Biology in Phoenix, Arizona, USA.
33. **KE. Ruckstuhl** (2006). A daughter, a daughter, my kingdom for a daughter! Talk given at the Meeting of the ISBE in Tours, France.
34. JT. Hogg, F. Pelletier and **KE. Ruckstuhl** (2006). Breeding migration, gene flow and management for connectivity in bighorn sheep. Talk at the Biennial symposium of the Northern Wild Sheep And Goat Council, Kananaskis, Alberta.
35. **KE. Ruckstuhl**, B. Curry\* and GO. Pelchat\*. Seasonal variation in the ruminating behaviour of bighorn sheep. Talk at the Biennial symposium of the Northern Wild Sheep And Goat Council, Kananaskis, Alberta
36. GO. Pelchat\* and **KE. Ruckstuhl**. Social structure of male bighorn sheep and the consequences of associations. Talk at the Biennial symposium of the Northern Wild Sheep And Goat Council, Kananaskis, Alberta
37. **KE. Ruckstuhl**, and E. Post (2005). Effects of climate change on large mammals, at the ESA and INTECOL joint meeting in Montreal, Quebec, Canada. I was chair of a symposium, gave the concluding talk and gave a talk for Eric Post entitled: Effects of climate change on large mammals.
38. **KE. Ruckstuhl** (2003). The biology of the Artiodactyla: the ecology of the two sexes. Plenary talk at the meeting of the Swiss Society for Wildlife Biology (SGW) and the Society for Mammalian Behaviour (DGS) in Bern, Switzerland.
39. **KE. Ruckstuhl** (2002). Sexual segregation in ungulates: a comparative approach. Sexual segregation workshop, Cambridge, UK. I was hosting this workshop, gave various talks and led the discussion group.
40. **KE. Ruckstuhl** (2002): Bite rates in bighorn sheep: effects of age, sex and reproductive status. 13th Biennial Symposium of the Northern Sheep and Goat Council. Rapid City, North Dakota, USA.
41. **KE. Ruckstuhl** (2001). Sexual segregation in ungulates: a test of three hypotheses. Poster talk at the International Ethology Conference Ethology, Tübingen, Germany.
42. **KE. Ruckstuhl** (2000). Behavioural synchrony in ibex groups: effects of age, sex and habitat”. European Conference on Alpine Ibex, Cogue, Italy.
43. **KE. Ruckstuhl** (2000). Effects of prescribed grassland burns on the forage availability, quality and bighorn sheep use. Biennial Symposium of the Northern Wild Sheep and Goat Council, Whitehorse (Yukon), Canada.
44. **KE. Ruckstuhl** (1999). Synchronization of activities and sociality in bighorn sheep, *Ovis canadensis*. 3rd European Congress of Mammalogy, Jyväskylä, Finland.
45. **KE. Ruckstuhl** (1998). Synchronization of activities in bighorn sheep groups. Meeting of the Canadian Society of Zoologists in Kelowna, British Columbia, Canada. (Cas Lindsey Award).
46. **KE. Ruckstuhl** 1997: May, “Foraging behaviour and sexual segregation in bighorn sheep: big sheep cannot eat with small ones“. 2nd World Conference on mountain ungulates, St. Vincent, Italy.
47. **KE. Ruckstuhl** 1994: October, “On the mother-kid behaviour in alpine chamois“. Annuel Meeting of the SQEBC (Société Québequoise pour l’Étude Biologique du Comportement) in Trois Rivières, Québec, Canada.

INVITED TALKS (Conferences and Universities)

1. Invited talk for faculty mingle at U of C, Biological Sciences. November 19, 2021.
2. Invited plenary speaker at the Alberta Chapter of the Wildlife Society meeting, Alberta, March 2021.
3. Invited symposium speaker AUGUST 28 - SEPTEMBER 1, 2016: Bighorn sheep life history evolution and behavior,At the 6th WORLD CONGRESS ON MOUNTAIN UNGULATES and 5th INTERNATIONAL SYMPOSIUM ON MOUFLON,Nicosia, Cyprus-declined last minute due to health reasons.
4. November 2, 2014: The importance of long-term studies in behavioural ecology and conservation: The Sheep River bighorns. Invited lecture, Calgary Chapter of Sigma Xi. Biological Sciences, University of Calgary.
5. February 7, 2013: Applying Social network theory to wildlife. University of Northern British Columbia, BC, Canada.
6. December, 2011: Cooperation and social networks in ungulates. Invited lecture at Université de Laval, Quebec City, Quebec.
7. February, 2011: Men are from Mars and women from Venus: hypotheses on sexual segregation. Invited lecture. Anglia Ruskin University, Cambridge, UK.
8. March, 2011: Lamb recruitment in Kananaskis/Sheep River, Alberta (presenters: Daniel Andres, Susan Kutz and co-author Kathreen Ruckstuhl)
9. 2008, March: Differences in the ecology of the two sexes. Presented to Behavioural Neuroscience research group, University of Calgary, Alberta, Canada.
10. 2007, February: Sexual segregation in ungulates: proximate and ultimate factors. University of Alberta, Edmonton, Canada
11. 2006, January: Behavioural synchrony and costs of group living. University of Neuchâtel, Switzerland. Discussion of research projects with graduate students in biology.
12. 2005, November: Spotlight on research. Session in Biology 233 at the University of Calgary. One-hour lecture on my research, my career and insights into being a scientist.
13. 2005, October: “Causes of sexual segregation in vertebrates: a behavioural approach”. University of Alberta, Edmonton, Canada
14. 2005, March: Career fair at the University of Calgary (MSC Escalus). Careers in Environment. Talk to students about my own career, how I got there, what I do, what I like and don’t like about my job, and advice to students for a successful career in my field and the environment.
15. 2005, March: Spotlight on research. Session in Biology 233 at the University of Calgary. One-hour lecture on my research, my career and insights into being a scientist.
16. October 2004: Bighorn sheep growing up together, living apart. “Festival of Eagles” in Canmore, AB, Canada; Invited public talk.
17. 2004, January: “La ségrégation sexuelle chez les Ongulés: une méta-analyse”. Invited talk University of Neuchâtel, Switzerland.
18. 2004: January: “Evidence for costs of behavioural synchrony in shoaling fish”. Invited talk, University of Bern, Switzerland.
19. 2004: January: “Sexual segregation and the ecology of the two sexes”. Invited talk, University of Osnabrück, Germany.
20. 2003: October: “Sociality in ungulates and the ecology of the two sexes”. Invited talk at the University of Calgary, Alberta, Canada.
21. 2003: July: “Sociality and sexual segregation in ungulates”. Invited seminar at the

University of Lethbridge, Alberta, Canada.

1. 2003: May, “Living together/apart” Invited talk at the University College of Cape Breton, Nova Scotia, Canada.
2. 2002: December, “The link between sociality and synchrony in behaviour“. Presented at the Swiss National Science Foundation in Bern.
3. 2002: March, “What drives sexual segregation in ungulates? A comparison across species”. Invited talk at the Institute of Zoology in London, UK.
4. 2001: March, ‘LARG, SMART and sexual segregation. Presentation of postdoctoral work and work done in the Large Animal Research Group, at the Departmental Seminar Day, University of Cambridge, UK.
5. 2001: January, “Behavioural ecology and sociality in ungulates” Invited seminar,

University of Bern, Switzerland.

1. 2000: September, “Sociality in ungulates and its implication for management and conservation”. Invited seminar, University of Zurich, Switzerland.
2. 2000: February, “On Oryx and Zebra”, invited seminar, Etosha Ecological Institute, Etosha National Park, Namibia.
3. 1999: November, “Sociality and foraging behaviour of bighorn sheep. Invited seminar, University of Bern, Switzerland.
4. 1999: October, “Group living and sexual segregation: a study on bighorn sheep. Invited seminar, University of Cambridge, UK.
5. 1999: May, “Foraging behaviour and sociality in bighorn sheep” Invited seminar, University of Manitoba, Canada.
6. 1997: November, “Sexual segregation in bighorn sheep” at the Annual Meeting of the SQEBC in Montreal, Québec, Canada.
7. 1997: October, “Foraging behaviour and sexual segregation in bighorn sheep: big sheep cannot eat with small ones” Invited seminar, University of Calgary, Alberta, Canada.
8. T. Henry and K.E. Ruckstuhl Animal Behavior conference June, 2021
9. V. Perez and Kathreen Ruckstuhl Determining lambing site locations of female Rocky Mountain bighorn sheep (*Ovis canadensis*). Animal Behavior conference June, 2021
10. P. McDougall\* and **KE. Ruckstuhl**: Vigilance is about more than just watching for predators. Canadian Society for Ecology and Evolution. Victoria, BC, May 2017
11. P. McDougall\*, **KE. Ruckstuhl** and MA. Gonzales: Vigilance is about more than just watching for predators: Social mimicry of vigilance behavior contributes to group cohesion. Alberta Chapter of the Wildlife Society annual conference at Lac la Biche, March, 2017
12. MA. González, P. McDougall\*, B. Blanco-Fontao, P. Neuhaus & **KE. Ruckstuhl**: Surveying Grey Partridge (*Perdix perdix*) in winter: easy and cost-effective. Meeting of the Alberta Chapter of The Wildlife Society, Lac La Biche, March 17-19, 2017
13. P. McDougall\*, J. MacLaine and **KE. Ruckstuhl** (2016) Influential Group Members: What factors increase the probability of behaviour contagion in bighorn sheep.  Poster presentation at *The Wildlife Society (Alberta Chapter) Annual Conference*. Drumheller, Alberta.
14. P. McDougall\* and **KE. Ruckstuhl** (2015). Stand By Me: Neighbour distance decreases with age in bighorn rams.  Poster presentation at the 23rd annual meeting of the *Canadian Society of Zoologists.*Calgary, Alberta.
15. OA. Aleuy\*, **KE. Ruckstuhl**, N. Simmons, A. Veitch, SJ. Kutz. 2015. Dall’s Sheep Ewe Fitness and Offspring Sex are Associated with the Abundance of Gastrointestinal Parasites. 13th Annual Conference Ecology & Evolution of Infectious Diseases, Athens, Georgia, USA. Poster. May 26-29 2015.
16. OA. Aleuy\*, K. Peterkin, **KE. Ruckstuhl**, SJ. Kutz. 2015. Local thermal adaptation in the free-living stages of the nematode parasite *Marshallagia marshalli* and its implications in a global warming context. Killam Scholarship Reception. Calgary, Canada. Poster. October 19 2015..
17. BD. Holland\*, P. Neuhaus, and **KE. Ruckstuhl**. Intrinsic and extrinsic factors affecting dispersal and survival of yellow-bellied marmots (Marmota flaviventris) in southern Alberta. Alberta Chapter of the Wildlife Society meeting, Jasper, Alberta, March 9-11, 2014.
18. S. Liccioli\*, **KE. Ruckstuhl** and A. Massolo: Seasonal variability and spatial heterogeneity of parasite infection: the urban cycle of *Echinococcus multilocularis* in Calgary, Alberta, Canada. TWS meeting, Sept. 2013, Milwaukee, Wisconsin.
19. PL. McDougall\* & **KE. Ruckstuhl**. Age-related changes in vigilance behaviour:
20. the role of fixed gaze durations. Canadian Society for Brain Behaviour and Cognitive Science conference June 7-9, 2013
21. PL. McDougall\*, JA. MacLaine, & **KE. Ruckstuhl**. Do bighorn sheep adjust their vigilance in response to their neighbour’s vigilance bout duration? The Wildlife Society conference, Portland, Oregon. October 13-18, 2012.
22. L. Koren and KE. Wynne-Edwards, Å. Fahlman, SJ. Kutz, S. Checkley, **KE. Ruckstuhl**, Doug Whiteside: Cortisol and corticosterone in stressed, cortisol-dominant wildlife. Society for Behavioral Neuroendocrinology conference, Santiago de Querétaro, Mexico, 23-26 June 2011.
23. B. Hoar\*, **KE. Ruckstuhl**, and SJ. Kutz: Development and survival of the free-living stages of Ostertagia Gruehneri, an abomasal parasite of Rangifer tarandus. Alaska Wildlife Society meeting in Fairbanks, USA, April 7-9, 2009.
24. N. deBruyn\*, E. Hoberg, N. Chilton, **KE. Ruckstuhl**, SJ. Kutz: March of the Worms: Climate Change and GI Parasites in Northern Cervids. Banff Montana Ecosystem Workshop, in Banff, Alberta, January 30-31, 2008.
25. N. deBruyn\*, B. Hoar\*, E. Hoberg, A. Veitch, N. Chilton, **KE. Ruckstuhl**, and SJ. Kutz: Weather and Worms: Parasites in Northern Caribou. Poster presented at CARMA-4 Annual Meeting, Vancouver, BC, November 2007.
26. N. deBruyn\*, E. Hoberg, N. Chilton, **KE. Ruckstuhl**, SJ. Kutz: Gastrointestinal Parasite Biodiversity in Northern Ungulates: Application of a Novel Molecular Diagnostic Tool. CARMA (CircumArctic Rangifer Monitoring and Assessment) Annual Meeting, Vancouver, BC, November 2007.
27. **KE. Ruckstuhl**: Behavioural synchrony as a potential cost to group living. At the meeting for the International Symposium for Behavioural Ecology (ISBE), July 2004, Jyväskylä, Finland.
28. **KE. Ruckstuhl**: Behavioural synchrony as a potential cost to group living at the meeting of the International Society for Behavioural Ecology in Jyväskylä, Finland, July 2004.
29. **KE. Ruckstuhl**: Sexual segregation in ungulates: a test of three hypotheses. Poster at the International Symposium for Behavioural Ecology (ISBE), July, 2002 Montreal, Canada.
30. **KE. Ruckstuhl**: Sexual segregation in ungulates: a test of three hypotheses. Poster talk and poster at the International Ethology Conference Ethology, August 2001, in Tübingen, Germany.

SCIENTIFIC REPORTS

1. **KE. Ruckstuhl** and P. Neuhaus (2000): On oryx and zebras. Research report for the Ministry of Environment and Tourism in Windhoek, Namibia
2. **KE. Ruckstuhl** (2000): Fieldwork report on zebra and oryx for the Swiss National Science Foundation (SANW).
3. **KE. Ruckstuhl** (1998): Outline on the status of wood bison (Bison bison athasbascae). COSEWIC. 2 pp.
4. **KE. Ruckstuhl** (2000): The status of wood bison (Bison bison athasbascae) in Canada. COSEWIC. Author, 28 pp.
5. **KE. Ruckstuhl**, J. Jorgenson and M. Festa-Bianchet (1998; 1997): Evaluation of a prescribed aspen burn for bighorn sheep habitat improvement. Progress report to the Alberta Sports, Recreation, Parks and Wildlife Foundation (Fish & Wildlife).

PROFESSIONAL SOCIETY MEMBERSHIPS

Schweizerische Gesellschaft für Wildtierforschung, since 1990

The Wildlife Society, since 1994

Canadian Society of Zoologists, 1994-2009

International Society for Behavioural Ecology, 2000-2010.

Cambridge Philosophical Society, since 2001

Sigma Xi, since 2005

Ecological Society of America, 2005-2009

Canadian Section of TWS, 2009-2014

Canadian Society for Ecology and Evolution (2009)

Association for the Study of Animal Behaviour (variable years)

Animal Behavior Society (since 2017)

TEACHING

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Course | Topic | Class size | Student  Focus group | Years taught | Years taught |
| BIOL 243 | DNA, Inheritance & Evolution | ~300 | Year 1 or 2 | 2014 | 1 |
| BIOL 205 | Biology, Concepts and Connections | 300 | Non-majors. Year 1 or 2 | 2007-2018 | 11 |
| BIOL 313 | Introduction to Ecology and Evolution | 300 | Year 2 or 3 | 2010-2012 | 3 |
| BIOL 451 | Conservation Biology | 108 | Year 4 or 5 | 2012-2013 | 2 |
| ECOL 413 | Introduction to Field Ecology (2-week Field course) | 20 | Year 3 or 4 | 2004-ongoing | 11 |
| ECOL 425 | Quantitative Ecology II: Advanced statistics | 30 | Year 3 or 4 | 2005 | 1 |
| ECOL 429 | Ecology of Individuals | 30 | Year 3-4. | 2004-2013 | 9 |
| ECOL 501 | Evolutionary and Ecological Applications | ~20 | Year 4 or 5 | 2008,2010,2020 | 3 |
| ECOL 507 | Guided reading, learning lab techniques or analyzing and writing data. | 1-3/term | >2nd year undergraduates with GPA >3.2 | 2004-ongoing | >50 |
| ECOL 528 | Independent research projects | 1-3/term | Do research, analyse data and publish papers. Duration : 2 terms | 2004-ongoing | 30 |
| ECOL 530 | Research project for majors. Do their own research under my guidance on an EEB | 1-2/term | Undergraduate students in their last year | 2004-ongoing | 30 |
| ECOL 603 | Advanced Behavioural Ecology for graduate students | 6-10 | Graduate course | 2007, 2009, 2013, 2014, 2018, 2021,  2022, 2023 | 8 |
| EEB 601 | Graduate Student Seminars | ~30 | Graduate course coordinator | 2009-2010  2013-2014 | 4 |
| ZOOL 567 | An Introduction to Animal Behaviour | ~33 | Students in senior years | 2007 & 2009 | 2 |
| VM 580 | Capture/handling of wildlife, GIS tracking | 10 | VetMed students | 2010-ongoing | 9 |
| Ungulates04 | Field course on behaviour and ecology of Alpine ungulates | 18 | Course offered through the University of Berne/CH | 2004 | 1 |
| Animal Behaviour | Tutoring of Zoology Courses for students from various Cambridge colleges | 5-10 | Cambridge University course given by Drs. Bateson and Davis | 2000-2004 | 4 |

TEACHING RELATED COURSES & WORKSHOPS TAKEN

|  |  |  |
| --- | --- | --- |
| Name/Topic of course | Where | When |
| **Getting started with a question** | Taylor Institute | September 19, 2022 |
| One Health Workshop Series: Health, Resilience & the Microbiome | Zoom | 2020 October |
| One Health Workshop Series: Chronic Wasting Disease | Zoom | Session #1: September 30, 2020 Session #2: October 7, 2020 |
| **Best Practices for Designing a Quality Rubric** | **TI 0727 – 007 (online)** | 2020 |
| **Engaging Students Online** | **TI 0721 – 009 (online)** | 2020 |
| Using YuJa in teaching and learning | Taylor Institute for Teaching and Learning (U of C) | 2020 |
| Teaching forum discussions | Taylor Institute for Teaching and Learning (U of C) | 2020 |
| Fostering Inclusion and a Sense of Class Community in Online Teaching | Taylor Institute for Teaching and Learning (U of C) | 2020 |
| Difficult conversations | Taylor Institute for Teaching and Learning (U of C) | 2018 |
| Brainsmoothies | Teaching and Learning Centre, (U of C) | 2018 |
| Tools for effective teaching | Teaching and Learning Centre, (U of C) | 2014 |
| Giving constructive feedback to students | Teaching and Learning Centre, (U of C) | 2014 |
| Making sense of student feedback on teaching | Teaching and Learning Centre, (U of C) | 2014 |
| Using Reflective Memos for Self-Assessment of Teaching | EEEL, U of C | 2014 |
| Top Hat Monocle Training | Teaching and Learning Centre, U of C | 2013 |
| Graduate Student Supervision: Series of talks and discussions on “How to effectively supervise graduate students” | Teaching and Learning Centre, U of C | 2012 |
| How to effectively use Clickers in the classroom | U of C, IT tower | 2010 |

VISITING RESEARCHERS, RESEARCH ASSOCIATES & POSTDOCS

|  |  |  |  |
| --- | --- | --- | --- |
| *Name & position* | *Topic/grants/honours* | *Years* | *Degree* |
| Dr. Manuel Antonio Gonzalez  (University Léon, Spain) | Life history of grey partridge in  Spain | Sept. 2016-May 2018 | *Postdoc* |
| Dr. Joana Alves  (@ Coimbra University, Portugal | Sexual behaviour in deer: the role of proximate and ultimate factors in reproductive strategies | Sept. 2016-April 2021 | *Postdoc* |
| Dr. Muyang Wang  (Chinese Academy of Sciences, China) | Behavioural Ecology and sexual segregation of ungulates.  Also work on great bustards of China | Feb. 2016 to Feb. 2017 | *Visiting scientist* |
| Dr. Ivàn Salgado García (Spanish National Research Council) | Modelled sexual segregation in the Great Bustard (*Otis tarda*) | Sept-Dec 2014 | *Visiting pectoral student* |
| Dr. John T. Hogg  (Director, Montana Conservation Science Research Institute) | Mating systems at large spatial scales: The behavioural ecology of breeding migration in Rocky Mountain bighorn sheep. | 2006-2009 | Senior research associate |
| Dr. Åsa Fahlman  (University of Uppsala, SWE) | Working on the effects of anaesthesia on wild bighorn sheep. 2 years co-supervised with Nigel Caulkett, UCVM | 2009-2015  (Sept-Nov) | Postdoc for the first 2 years, then continued collaboration as Lecturer, Uppsala University, Sweden |
| Dr. Nicola Ferrari (University of Milano, Italy) | Modelling sexual segregation and its effect on parasite transmission among Alpine ibex males and females | 2008 | Postdoc from Italy |

MSc AND PhD STUDENTS

|  |  |  |  |
| --- | --- | --- | --- |
| Name/current job | Topic/grants/honours | Years | Degree |
|  | Degrees in progress |  |  |
| Ryan Geoffrey Tate | Is interested in mathematical modeling of animal behaviour. He is looking at how to apply game theory to the mating tactics of male Rocky Mountain bighorn sheep and their interplay with female choice | 2016-ongoing | PhD candidate |
| Alejanda Maria Santa (co-supervised by Dr. Massolo, UCVM, and since 2018 co-supervised by Dr. Mussiani, Bio Sci) | Is interested in disease ecology and host-parasite interactions in coyotes and foxes. Her research project is focusing on the invasion process of the European strain of the parasite *Equinoccocus multilocularis* in Alberta. *Columbian Scholarship Fortesa* | 2016-2018 then switched to PhD- aims at defending in July 2021 | PhD candidate |
| Petra McDougall | Attending to Attention: An ethological framework for investigating the mechanisms underlying attention following in bighorn sheep. *NSERC student scholarship and ACA biodiversity grant* | 2011-ongoing  3x maternity and one bereavement leave | PhD candidate |
| Tanisha Henry | Does horn shape and size affect dominance rank and female choice in bighorn sheep males? | Fall 2020-ongoing | MSc candidate |

FORMER STUDENTS

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Name | Thesis | | Years | | Degree | |
| Berna-Dean Holland | Yellow-bellied marmot personality and drivers for dispersal. Co-supervised with Dr. P. Neuhaus (adjunct, U of C). *Indigenous* *Scholarship U of C* | | 2013-2020 (w/leaves) | | MSc | |
| Oscar Ale Aleuy Young | Refining and testing predictive models for host-parasite interactions in a changing climate: the case of *Marshallagia* *marshalli.* Impacts of parasites on populations and individuals. Co-supervised with Dr. Susan Kutz, UCVM. Recipient of Chilean Scholarship & CREATE HPI scholarship (HPI=Host-Parasite-Interactions). *Now a* ***postdoc at U of C veterinary Department*** | | 2014-2019 | | PhD | |
|  |  | |  | |  | |
| Samridhi Rijal | Effect of season, sex and age on gastrointestinal parasites of bighorn sheep. Now a **scientific writing consultant with U of C** | | 2016-2019 | | MSc | |
| Tracey Hammer  (PhD candidate at CNRS Strasbourg, France) | Effect of ectoparasites and paternity on survival, body condition and ectoparasite counts in juvenile Columbian ground squirrels. Currently a PhD student in Strasbourg, France | | 2015-2018 | | MSc | |
| Stefano Liccioli  (Parks Canada wildlife biologist) | Coyotes, parasites and zoonoses in urban and rural environments. Co-supervised with Alessandro Massolo, University of Calgary Veterinary Department (UCVD). Recipient of *Queen Elisabeth II scholarship/Dean’s list. Open doctoral scholarship. AIHS grant.* | | 2010-2014 | | PhD | |
| Jesse Patterson (Wildlife Biologist, Ministry of the Environment, Victoria, BC) | Behaviour and ecology of Northern Flying and tree squirrels. Recipient of *NSERC student scholarship/ Queen Elisabeth II scholarship/ACA biodiversity grant.* | | 2008-2014 | | PhD | |
| Benn Edwards  (Training to become MD) | Home ranges, resource selection, and parasite diversity of urban versus rural elk (Cervus elaphus). *Queen Elisabeth II scholarship/ASRD funds/Alberta Parks and Protected Areas.* | | 2009-2013 | | MSc | |
| Bryanne Hoar (Wildlife Biologist with Nature Conservancy, Alberta) | | Conceptual and Mechanistic Models for the Development and Survival of a Trichostrongylid (*Ostertagia gruehneri*) in Barrenground Caribou, with Respect to Northern Climate Change. Co-supervised with Dr. Susan Kutz, UCVM. Recipient of  *Industrial NSERC, CARMA, Queen Elisabeth II scholarships.* | | 2006-2012 | | PhD |
| Charlene Lafaurie  (goat farmer) | | Student from the University of Strasbourg working on social networks in bighorn sheep males. I was co-supervisor. | | 2011-2012 | | MSc |
| Melissa Sherwood  (Research Assistant at DuPont Pioneer) | | Benefits and costs of dominance in Rocky Mountain bighorn sheep females. *Queen Elisabeth II scholarship* | | 2007-2012 | | MSc |
| Angela Aivaz (founder and CEO of Aivaz Consulting Inc.) | | Behavioural synchrony and grouping dynamics in fish. *Queen Elisabeth II scholarship, and smaller internal grants* | | 2007-2010 | | MSc |
| Corey Corbett (Working for AXIS consultants in Calgary) | | Male mating effort and its effects on corticosterone, testosterone levels and gastrointestinal parasites. *Queen Elisabeth II scholarship/ACA biodiversity fund* | | 2006-2010 | | MSc |
| Nathan de Bruyn (Working for STANTEC in Calgary) | | Parasites in *Cervids* and their migration and spread into the North. Co-supervised with Susan Kutz, UCVM. *Queen Elisabeth II scholarship* | | 2007-2010 | | MSc |
| Andres Daniel  (Co-owner of Solar Panel Company in Ontario) | | Consequences of maternal loss and social network effects in red deer. *NSERC Masters scholarship. ACA grant. Queen Elisabeth II grant* | | 2010-2013 | | MSc |
| Linda Hartog (Environmental consultant in Holland) | | Effects of cattle grazing on plant species composition (Dutch MSc Program). Co-supervised with Dr. Neuhaus | | 2008-2009 | | MSc |
| Celia Bueno (Curator at the Neuchâtel Natural History Museum) | | Effect of cattle grazing on small mammal life histories. Swiss Masters University of Neuchatel. Co-supervised with Dr. Neuhaus | | 2007-2009 | | MSc |
| Graeme Pelchat (Natural Resource Consultant with Environmental Dynamics INC, Yukon) | | Bighorn ram associations and coalitions. *Queen Elisabeth II scholarship/ACA biodiversity fund.* | | 2005-2009 | | MSc |
| Natalia Brown (nee Chaikina) (licenced physiotherapist) | | Impact of cattle grazing on native ungulates in Sheep River Provincial Park, Alberta. *NSERC scholarship/ Queen Elisabeth II scholarship/ACA biodiversity fund* | | 2005-2008 | | MSc |

UNDERGRADUATE RESEARCH PROJECTS

|  |  |  |
| --- | --- | --- |
| Name | Course code / Year taken | Topic |
| Roy Tran | 507 |  |
| Tanner | 507 |  |
| Magdalena | ENS-2022 | Benefits of social networks in bighorn sheep females |
| Patience Emmanuel | BIOL 528 (2022-2023 | Density-dependent reproductive success in Columbian ground squirrels |
| Raymond Li | ECOL 530 (2022-2023 | Measuring costs of reproduction in male bighorn sheep, using photogrammetry |
| Triana Hohn | Zool 530 (2021-2022) co-supervised with Vivek Venkataraman, Anthropology | Post-conflict behaviors in wild gelada monkeys (*Theropithecus gelada*) at Guassa, Ethiopia |
| Amanda Luzardo | Ecol 528 (2021-2022) co-supervised with Amanda Melin, Antropology) | Sensory fruit cues as a signal to frugivores: the interaction of fruit hardness, colour, odour, and sugar content within and between fruit species (won first prize for best student presentation at Departmental Seminar day) |
| Ihncheol Jung | (2021-22) | Body scoring index for wild horses on Sable Island |
| Alyx Luger | Ecol 530 (2021-2022 | Sexual differences in seasonal movements of bighorn sheep |
| Valery Perez | Biol 507 (2020-2021) | Migration and RSF of bighorn sheep ewes |
| Tanisha Henry | Zool 530 (2019-2020) | Horn morphology of bighorn sheep males |
| Emma Lait | Ecol 530 (2019-2020) | Reproductive success of male bighorn sheep |
| Daniel Hung | Ecol 530  (2017-2018) | How does season affect the Activity Budget of Male Groups, Female Groups and Mixed Groups |
| Megan, Mah | ZOOL 530  (2017-2018) | To stay or to go: Breeding partial migrations of female bighorn sheep in Sheep River Provincial Park |
| Camille, Venier-Cambron | ECOL 528  (2017-2018) | Effects of age, sex and season on gastrointestinal parasite in bighorn sheep *Ovis canadensis* |
| Daniel, Hung | ECOL 530  (2017-2018) | How do rams and ewes move it move it: Sex versus food |
| Luo, Ruiping | 2016 Pure May-September | Parasite loads and foraging behavior in Bighorn sheep effects on age |
| Seraphine, Justine | 2016 Independent project advisor for AR University, Cambridge, UK | How is social behaviour within a bachelor group of bighorn sheep males related to their age? |
| Dwhani Paul | ECOL 530  (2015-2016) | Social network positions in ewes and how they are correlated with reproductive success and lamb survival in bighorn sheep |
| Meaghan Tucker | ZOOL 530  (2015-2016) | Foraging and rumination behavior in bighorn sheep: effects of environment, sex and age |
| Hira Shah | ECOL 507  2014 fall | Dominance hierarchies and lifetime reproductive success (LRS) in bighorn sheep |
| Renee McCurdy | ECOL 507  2014 fall | Sexual differences in fitness and LRS in Columbian ground squirrels |
| Brandon Morgan | ZOOL 507  2014 fall | Ground squirrel behavior analysis: Surviving by looking into a mirror |
| Allison Hay (Co-supervision with Dr. A. Massolo, UCVM) | ECOL 528  2014/2015 | Determinants of Echinococcus multilocularis infections and intensity in coyotes (Canis latrans) in Alberta and Saskatechwan, Canada |
| Danielle Grant (Co-supervision with Dr. C. Klein, UCVM) | ECOL 528  2014/2015 | Western Canadian Echinococcus multilocularis Genotypic Characterization via Microsatellite EmsB Fragment Analysis |
| Colin Nicholas (Co-supervision with Dr. A. Massolo, UCVM) | ZOOL 507 / 2014  winter | Strain-typing of *Echinococcus multilocularis* Infections of Coyotes Inhabiting Urban Areas of Alberta |
| April Martinig (MSc candidate at Concordia) | ECOL 507 / winter 2014 | Social network analyses in bighorn sheep: effect of age and sex |
| April Martinig | ECOL 507 / fall 2013 | Understanding Social network theory |
| Ashley Pierce (Co-supervision with Dr. A. Massolo, UCVM) | ECOL 528 / fall 2013 to winter 2014 | Comparison between fecal and stomach contents in coyotes: which one works best? |
| Carly Bialowas (Co-supervision with Dr. A. Massolo, UCVM) | ZOOL 528 / fall 2013 to winter 2014 | Seasonal diet of urban coyotes in Calgary |
| Shemanti Barua (Co-supervision with Dr. A. Massolo, UCVM) | ECOL 507 / fall 2013 | Prevalence of *Neospora caninum* in urban coyote *(Canis Latrans)* in Alberta |
| Florence Chan (Co-supervision with Susan Kutz, UCVM) | ZOOL 507 / fall 2013 | Quantifying stress hormones in muskoxen (*Ovibos moschatus*) for chronic annual and lifetime stress determination. |
| Clarice Maxwell | ECOL 530 (Honours) / fall 2013-winter 2014 | Perception, vigilance and contagion in bighorn sheep |
| Brandon Morgan | Zool 507/Fall 2014 | Ground squirrel behavior analysis: surviving by looking into a mirror |
| Gedimar Barbosa | Brazilian exchange student/ Science without Borders Program / Summer 2013 | Social networks and contagion of vigilance in bighorn sheep |
| Holly Shaw (Co-supervision with Dr. A. Massolo, UCVM) | ECOL 507 / summer 2013 | Diet/parasitology/spatial ecology of radio-collared coyotes |
| Anukul Ghimire | *NSERC summer studentship,* May 2013 | The effect of distance and intensity of vigilance on attention following in bighorn sheep |
| Inés Martín del Real  (Completed MSc in Germany and PhD in Spain) | Spanish Exchange student, University of Barcelona / 2012-2013 | Mate choice in bighorn sheep ewes via maintenance of proximity |
| Lalita Bharadwaj (Co-supervision with Dr. A. Massolo, UCVM) | ZOOL 507 / fall 2012-winter 2013 | Diet ecology of coyote in urban Calgary |
| Blake Schiermann |  |  |
| Sabrina Colcuhoun (Co-supervision with Dr. A. Massolo, UCVM) | ECOL 530 Honours in Ecology / 2012-2013 | Seasonal prevalence of *Echinoccocus multilocularus* in urban coyotes (*Canis latrans*) in Calgary, Alberta. Published work as Liccioli et al. 2013, Parasitology International: short communication on red backed voles as a novel host of Echinococcus m. |
| Joanna Deunk (Co-supervision with Dr. A. Massolo, UCVM) | ECOL 528 / 2012-2013 | Prevalence of Echinococcus multilocularis and sex ratio of deer mice (Peromyscus maniculatus) and meadow voles (Microtus pennsylvanicus) in urban parks of Calgary. Published work as Liccioli et al. 2013, Parasitology International: short communication on red backed voles as a novel host of Echinococcus m. |
| Sultana Majid (Co-supervision with Dr. A. Massolo, UCVM)  PhD student at UNBC | ECOL 530 Honours / 2012-2013 | Differential Selection of Rodent Prey Species by Urban Coyotes (Canis latrans), and Their Diet Composition, in Summer. Now a Wildlife Information Specialist with the Ministry of Environment in Victoria since March 2020 |
| Amanda Raho | ECOL 528 / winter 2012 | Home-range overlap and spatial habitat use of cattle and bighorn sheep in Sheep River Provincial Park |
| Blake Schierman | ECOL 528 / winter 2012 | Sexual differences in home range use and habitat selection in bighorn sheep |
| Rheanne Ritchie (Co-supervision with Susan Kutz, UCVM) | ECOL 507 / winter 2012 | Age and reproductive differences in parasite prevalence and diversity in caribou |
| Nicole Besler | ZOOL 507 / winter 2012 | Coyote diet in an urban setting |
| Justin Duval | ZOOL 507 /winter 2012 | Stomach contents and diet of coyotes in Calgary |
| Sultana Majid | PURE award to do a summer project / 2011 | Effect of sex and parasites on body mass changes in red squirrels |
| Rachelle MacEachen | PURE award to do a summer project / 2011 | Life history of red squirrels |
| Paola Rodriges (co-supervised with Dr. Peter Neuhaus) | *NSERC USRA / 2010* | Life history traits and stress in Columbian ground squirrels |
| Ruppi Herar (Medical student in the US) | Volunteer / 2010 | Effects of testosterone and glucocorticoids on parasite levels in bighorn rams |
| Jantina McMurray (now with VetMed degree) | *PURE award 2010* | Effect of parasites on life-history traits in red squirrels |
| Megan Reti (working as an environmental consultant in Calgary) | ZOOL 528 / 2008-2009 | Compensatory growth of zebra fish living in size-mismatched shoals. |
| Franck Trolliet (now PhD in primatology) | *French Exchange student* did the equivalent of a ECOL 529 / 2008-2009 | Decision-making and dominance ranks of bighorn sheep |
| Saba Melir | ZOOL 507 / 2007 | Synchrony and shoal choice in hungry versus fed sticklebacks |
| Gennifer Meldrum (Masters from UBC. Now phone assistant at Dillon Consulting Limited) | ECOL 530 / 2007-2008 | Sexual segregation in bighorn sheep in winter. P*ublished this research in Animal Behaviour in 2009.* |
| Paul Moquin (Data consultant/Statistician  Apollo Statistics, BC) | ECOL 530 / 2007-2008 | Rumination ecology in bighorn sheep, *published in Animal Behaviour in 2010.* |
| Natalie Boulic 2006/2007: (MSc and PhD in France) | Visiting student from France / 2006-2007 | Benefits of social dominance and sociality of Rocky Mountain bighorn ewes |
| Grant Coljin (now high school teacher in Calgary | ECOL 528 | Investigating impact of profession, age of mothers, and population sex ratio on the sex of their first-born in humans. *Paper published in BioMedCentral Public Health in 2010.* |
| Eileen Miranda | ECOL 528 / 2005-2006 | Sexual segregation and activity budgets of bighorn sheep in winter |
| Terri Whitehead | ECOL 528 - 2006 | Female dominance and breeding migrations in bighorn sheep. |
| Terri Whitehead, RA, U of C Geography | ECOL 530 / 2004-2005 | Measuring costs of behavioural synchrony in three-spine sticklebacks. |

RESEARCH ASSISTANTS/VOLUNTEERS

|  |  |  |
| --- | --- | --- |
| Name | Year | Type of work |
| Anna Ruckstuhl | 2021 | Ground squirrel research data collection |
| Valery Perez | 2021 | Ground squirrel research data collection |
| Patience Emmanuel | 2021 | Ground squirrel research data collection |
| April Martinig | 2021 | Ground squirrel research data collection |
| Emma Lait | 2021 | Ground squirrel research data collection |
| Kei Yasuda | 2008-current | Telemetry and population censuses of bighorn sheep |
| Sabine Ruckstuhl-Frei | 2020-current | Consolidates bighorn sheep data base |
| Romane Hazette | 2020 | Helped on two days with fall rut observation |
| Marcella de Mestria | 2019-early 2020 | Rutting behaviour of bighorn sheep |
| David Thacker | Fall 2019 | Helped in rut observations as a volunteer |
| Megan Merlihan | 2019 | Spring and summer censuses of bighorn sheep and Columbian ground squirrels |
| Megan Mah | 2019 | Spring and summer censuses of bighorn sheep and Columbian ground squirrels |
| Emma Lait | 2019 | Spring and summer censuses of bighorn sheep and Columbian ground squirrels |
| Sarah Hummel | 2017 | Data collection on ground squirrels and bighorn sheep |
| Camille Venier-Cambron | Summer 2017 | Data collection on ground squirrels |
| Page Lewis | 2016 | Data collection on ground squirrels |
| Teagan Jessop | 2015 | Data collection on ground squirrels |
| Talia Vilalta | 2014 | Data collection on population censuses and health of bighorn sheep at SRPP |
| Jason Lo | 2013 | Data collection on vigilance in bighorn sheep |
| Talia Vilalta | 2013 | Data collection on vigilance, and mate choice in bighorn sheep |
| Dwhani Paul | 2013 | Data collection on vigilance in bighorn sheep |
| Mark Robertson | 2012-2013 | Visiting undergraduate student from the University of Aukland, New Zealand. Helping with data collection on behavioural mate choice in bighorn sheep females |
| Emily Reuber (2011). | 2011 | Study on mate choice in bighorn ewes |
| Jennifer Kong | 2011 | Study on mate choice in bighorn ewes |
| Xavier Toral | 2009 | Bighorn sheep censuses and long-term data collection |
| Morgane Bonamy | 2009 | Bighorn sheep censuses and long-term data collection |
| Ruppi Herar | 2008-2009 | Zebra fish experiments and bighorn sheep parasite analyses. |
| Alejandro Nava Donatti | 2007-2008 | Bighorn sheep behaviour and life histories |
| Jamie McEwan | 2007 summer | Collecting long-term data and data on dominance hierarchies in bighorn sheep |
| Erin McKenna | St. Mary’s University College (summer 2007), summer assistant | Shoaling behaviour in zebra fish in the lab |
| Jonas Schmid | International student/ CH/ fall 2007 | Assistant in a study of stress hormones in bighorn sheep |
| Yvonne Kleinlogel | 2006 | Investigating female dominance and reproductive success in bighorn ewes |
| Carla Mueller | 2005 | Personality and life history traits in female Columbian ground squirrels. Correlates of boldness and learning ability with territory size, dominance and reproductive success in females |
| Terri Whitehead | 2005-2006 | 2005: Measuring costs of behavioural synchrony in three-spine sticklebacks and zebrafish. 2006: working on female dominance and breeding migrations in bighorn sheep |
| Ben Curry (field assistant, spring 2005-2006) | 2005-2006 | Data collection on sex and age biased rumination effort in bighorn sheep. Hired for small mammal trapping, for a study on the impact of cattle grazing on small mammal distribution and abundance/captured elk for radio collaring |

UNIVERSITY SERVICE

**1. Departmental**

Assistant Graduate Program Director July- November 2022

Chair of Outreach Events Planning Committee 2021-

Volunteer at the U of C Open House for prospective undergraduates 2014

Heads advisory committee member for ecology and evolutionary biology 2013 & 2014

Research cluster chair for ecology and evolutionary biology 2013

Equity issue committee 2012 – 2015

EEB research seminar coordinator 2009 – 2013

Undergraduate programs and curriculum committee ecology program chair 2006 – 2010

Ecology majors night organizer 2010

Ecology Open House coordinator 2004 & 2008

Undergraduate Research Symposium Awards Judge various years

**2. Faculty and University**

Faculty Tenure and Promotion Committee member 2018-2020

Evaluation of research animal care protocol for the University 2020-2022

Associate Director R. B. Miller Research Station 2005- 2019

Committee NSERC – DG review member for UCVM 2014, 2018, 2019, 2020, 2021

External examiner and committee member on >50 student defences in Biology and/or Anthropology 2003- ongoing

PURE Award Adjudication review committee 2014

Referee PURE U of C. Scoring students in Medical Sciences 2014

Evaluation of a tenure and promotion application UCVM- Public Health U of C 2014

External Examiner for PhD candidacy exam Department of Economics U of C 2014

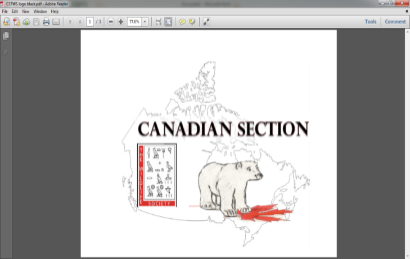
Selection committee to hire a Wildlife Pathologist UCVM 2009 &2010

Selection committee for a Paleontologist candidate in BioSci 2005

EXTERNAL / COMMUNITY SERVICES

**Editorial boards**

|  |  |  |
| --- | --- | --- |
| Editor | 2016-ongoing | Animal Behaviour (average 20 manuscripts/year) |
| Associate Editor | 2011-ongoing | Behavioral Ecology and Sociobiology (BES) (average 12 manuscripts/year) |
| Associate Editor | 2011-2020 | Wildlife Society Bulletin (WSB ScholarOne) (average 12/year) |
| Editor | 2016-2019 | Animal Behaviour (~ 10/year) |
| Associate Editor | 2010-2014 | ISRN Zoology (Hindawi online journal) |
| Chief Editor (\*) | 2009-2015 | Canadian Section of The Wildlife Society Newsletter (bi-monthly publication) |

**(\*)** As the newsletter editor for the Canadian Section of The Wildlife Society (CSTWS) from 2009 to 2015, I also developed the CSTWS Logo, which was approved by the parent society, TWS, in April 2013. ****

\*The logo has now been replaced

Public outreach / talks

February 21, 2017: Of bighorns and research. Invited lecture, Red Deer River Naturalists Speaker Series, Red Deer, Alberta

March 5, 2016: The life of the biggest of bighorn rams (706), The Cochrane Ecological Institute invited me to give a talk at the meeting entitled “Wilderness, Wildlife and human interaction”, Cochrane Ranch House, Cochrane, Alberta

October 23, 2014: The secret lives of bighorn sheep. Friends of Fish Creek Park invited lecture series.

2010, May: Why are animals social? Talk at the Unitarian Church of Calgary Forum.

2010, March 21: Bighorn sheep behaviour, ecology and disease. Talk at the AGM of the Wild Sheep Foundation Alberta (FNAWS Alberta). Capri Convention Centre, Red Deer, Alberta, 50-minute speech.

Scientific journal and conference proceedings editor/reviewer

Acta Ethologica, Acta Theriologica, Acta Zoologica Sinica, American Naturalist, African Journal of Ecology, Animal Behaviour, Animal Conservation, Arctic, Antarctic and Alpine Research, Australian Journal of Zoology, Behaviour, Behavioural Ecology, Behavioural Ecology and Sociobiology, Behavioural Processes, Biological Conservation, Biology Letters, Canadian Journal of Zoology, Canadian Field Naturalist, Current Zoology, Ecology, Ecological Research, Ecoscience, European Journal for Wildlife Research, Ethology, Evolution, Evolutionary Ecology, Journal of Mammalogy, Journal of Wildlife Management, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Zoology, London, Journal of Population Ecology, Japan, Journal of Ethology, Mammalia, Naturwissenschaften, Oecologia, OIKOS, Pakistan Journal of Zoology, PLoSOne, Philosophical Transactions of the Royal Society London, Proceedings of the Royal Society of London, Proceedings of the Northern Wild Sheep And Goat Council, Southwestern Naturalist, Western North American Naturalist, Ecological Monographs, Wildlife Biology, Wildlife Society Bulletin.

PROFESSIONAL ACTIVITIES

|  |  |  |  |
| --- | --- | --- | --- |
| Role | Organization | # Applications | Year |
| NSERC Committee 169 member | Reviewer for NSERC applications for PDF and PGS-D | ~100/year | 2020-2023 |
| Reviewer for NSERC | Natural Sciences and Engineering Research Council of Canada; Discovery Grants | 2-3/year | 2007-ongoing |
| Committee member PhD | Anglia Ruskin University Cambridge UK | 1 | 2015-2017 |
| Reviewer | Belmont Forum International Opportunities Fund Call for Proposals on Arctic Observing and Research for Sustainability | 1 | 2014 |
| External Examiner at PhD thesis | University of Melbourne, Australia |  | 2014 |
| Reviewer | Swiss Natural Science Foundation, individual grant | 1 | 2014 |
| Session chair for the Social Behaviour & Social Networks symposium | International Ethological Congress Behaviour 2013 meeting. Newcastle | 3 hours | 2013 |
| Chair of the Evaluation Committee & Expert Reviewer | Canadian Foundation for Innovation | 1 day | 2012 |
| Evaluation of a tenure and promotion application | Faculty of Science, University of Winnipeg | 1 | 2012 |
| External examiner PhD defence | Carleton University, Ottawa | 1 | 2012 |
| Reviewer and panel member | Alberta Ingenuity Fund (for graduate students) | 43-60 Applications/year | 2008-2010 |
| Reviewer | NSF Opportunity Grant | 1 | 2009 |
| Reviewer | Fonds de Recherche sur la Nature et les Technologies Québec (research grant) | 2 | 2007-2008 |
| External examiner and committee member on student defences in Biology in other Institutions in Canada and abroad | Canada, Europe, Australia, Pakistan, and South Africa |  | 2003-ongoing |

PROFESSIONAL SOCIETY ACTIVITIES & CONTRIBUTIONS

|  |  |  |
| --- | --- | --- |
| Role | Where/Who | When |
| Quiz Bowl Master | CSTWS meeting in Quebec City 2014 | March 2014 |
| Plenary session chair FOR “Citizen Science”, Evaluating abstracts, talks. Conference. Gave Welcome speech, did plenary speaker introductions. Organized and hosted the society’s AGM organization. Various tasks | Joint meeting of the Alberta Chapter and the Canadian Section of The Wildlife Society in Canmore | 2013 |
| Executive member. Monthly conference calls of the Canadian Section of the Wildlife Society business | Over phone | 2009-2014 |
| President of the Canadian Section of The Wildlife Society (CSTWS) | CSTWS | 2011-213 |
| President-Elect CSTWS | CSTWS | 2010-2011 |
| LOC member | Canadian Society for Ecology & Evolution meeting in Banff | 2010-2011 |
| Organizing seminars and AGM for CSTWS | Delta Marsh, Manitoba | 2009 |

OTHER SERVICE, OUTREACH & PUBLIC MEDIA

|  |  |  |
| --- | --- | --- |
| Role | Where | When |
| Secretary for Youth Can Fish 2, non for profit organization that helps underprivileged youth cast their dreams | Calgary, Alberta | 2021-ongoing |
| Board member and scientific advisor to the Cochrane Ecological Institute, Alberta, Non for profit wildlife rehabilitation and research centre | Cochrane, Alberta | 2016- ongoing |
| Scientific expert on: Teck’s Bighorn Sheep Regional Mitigation Enhancement Opportunities Workshop | Zoom online  Teck company meeting | April 28,2021, 2 hours |
| “Backyard battles with squirrels “<https://calgaryherald.com/life/allford-backyard-battles-with-squirrels> | Calgary Herald | 2021 |
| Scientific expert on bighorn sheep population dynamics and management | Alberta ESRD | 2020 ongoing |
| Scientific expert on population viability models and population dynamics | Tek, BC | 2019-ongoing, |
| “Is saving species too hard?” (interview) | City TV News | August 22, 2018 |
| Talk presented to ESRD biologists, to discuss life history data and management of bighorn sheep populations in Alberta. PowerPoint presentation and discussions | Calgary, Alberta | May 23, 2017 |
| Invited guest on the CJSW radio show called 'My Two Cents Flat' | University of Calgary student radio station | October 21, 2014 |
| Wildlife behavioural expert interviewed by Primetime TV Edmonton on cougar shooting and full review by Justice Minister | Calgary | September 22, 2014 |
| Wildlife Expert interviewing with Global TV (Rogers) about cougar shooting in southern Calgary | Calgary | September 18, 2014 |
| Wildlife Expert interviewing with CBC TV on early snowfall and wildlife coming into Calgary | Calgary | September 12, 2014 |
| Presenter (2 hours) and volunteer (2 days) for a grade 5 and 6 class who visited the U of C campus for the “Open Minds Program” for 5 days | U of C campus | June 2014 |
| Moderator For 2 Sessions | Carnivore Ecology, Evolution and Management symposium. ACTWS meeting in Jasper | 2014 |
| Invited expert at a forum for the conservation and management of Père David’s deer | China, Dafeng Nature Reserve | 2010 |
| Organizing seminars and AGM for CSTWS | Delta Marsh, Manitoba | 2009 |
| Initial organizing of joint symposium on critical habitat and on sustainable hunting during the Society of Conservation Biology Annual Meeting | Edmonton, Alberta | 2010 |
| Member of the Alberta Endangered Species Conservation Committee (ESCC). The committee meets and reaches decisions about the status and conservation of endangered species in Alberta. The minister for the environment appoints members. | Edmonton or Calgary, alternating | 2005-ongoing |
| Guided walk and talk on bighorn sheep biology and wildlife ecology in the foothills for YOUTHS CAN FISH 2, camps and field trips for underprivileged children | Sheep River Provincial Park, Kananaskis Country. Alberta | 2005-2016/~yearly event May Long Weekend |