

# **CURRICULUM VITAE**

(September 2015)

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## 1) UNIVERSITY EDUCATION

Ph.D. University of Calgary. Geography, Spatial Ecology. 2002  
M.Sc. University of Calgary, Geography, GIS and Habitat Modelling. 1997  
B.Comm. University of Alberta, 1989

## 2) UNIVERSITY EMPLOYMENT

2007 – Associate Professor, University of Calgary, Geography  
2001 – 2007 Assistant Professor, University of Calgary, Geography

## 3) SCHOLARSHIP

### Papers in Refereed Journals (18)

1. Watts, A., V.M. Lukasik, and **S.M. Alexander**. 2015. "Urbanization, grassland, and diet influence coyote (*Canis latrans*) parasitism structure." *EcoHealth* DOI: 10.1007/s10393-015-1040-5
2. van Rheenen, S., T.W.J. Watson, **S.M. Alexander**, and M.D. Hill. 2015. "An analysis of spatial clustering of stroke in Alberta, Canada, using GIS." *The Canadian Journal of Neurological Sciences* 16:1-11.
3. **Alexander, S.M.** and M.S. Quinn. 2012. "Portrayal of interactions between humans and coyotes (*Canis latrans*): Content analysis of Canadian print media (1998-2010)." *Cities and the Environment (CATE) - Special Topic Issue: Urban Predators* 4(11): Article 9.  
<http://digitalcommons.lmu.edu/cate/vol4/iss1/9/>
4. Lukasik, V.M. and **S.M. Alexander**. 2012. "Spatial and temporal variation of coyote (*Canis latrans*) diet in Calgary, Alberta." *Cities and the Environment (CATE). Special Topic Issue: Urban Predators* 4(11): Article 8. <http://digitalcommons.lmu.edu/cate/vol4/iss1/8/>
5. Watts, A. and **S.M. Alexander**. 2012. "Community variation of gastrointestinal parasites found in urban and rural coyotes (*Canis latrans*)." *Cities and the Environment (CATE) - Special Topic Issue: Urban Predators* 4(11): Article 11. <http://digitalcommons.lmu.edu/cate/vol4/iss1/11/>
6. **Alexander, S.M.** and M.S. Quinn. 2011. "Coyote (*Canis latrans*) interactions with humans and pets reported in the Canadian print media (1995–2010)." *Human Dimensions of Wildlife* 16:345-359.
7. Quinn, M.S, **S.M. Alexander**, N. Heck, and G. Chernoff. 2011. "Bird collision hotspots on transmission power lines in Alberta: an expert-based Geographic Information System (GIS) approach." *Environmental Informatics* 18(1):12-21.
8. Lukasik, V. and **S.M. Alexander**. 2011. "Human-coyote interactions in Calgary, Alberta." *Human Dimensions of Wildlife* 16(2):114-127.
9. Kang, H. and **S.M. Alexander**. 2009. "Relative accuracy of spatial predictive models for lynx (*Lynx Canadensis*) derived using logistic regression-AIC, multiple criteria evaluation and Bayesian approaches." *Current Zoology* 55(1): 28-40.
10. **Alexander, S.M.** 2008. "Snow-tracking and GIS: using multiple species-environment models to determine optimal wildlife crossing sites and evaluate highway mitigation plans on the Trans-Canada highway." *Canadian Geographer* 52(2): 169-187.
11. Etherington, T.R. and **S.M. Alexander**. 2008. "Identifying radio-telemetry sampling bias using Geographic Information System viewsheds." *Journal of Wildlife Management* 72(4):1043-1046.
12. **Alexander, S. M.**, T.B. Logan, and P.C. Paquet. 2006. "Spatio-temporal co-occurrence of cougars (*Felis concolor*), wolves (*Canis lupus*) and their prey during winter: a comparison of two analytical methods." *Journal of Biogeography* 33:2001-2012.

13. **Alexander, S.M.** and D. Duro. 2006. "Habitat fragmentation and water quality in the Candelaria Watershed, Mexico." *Jaina en linea* Volume especial: 34-36.
14. **Alexander, S. M.**, P.C. Paquet, T.B. Logan, and D.J. Saher. 2005. "Snow-tracking versus radiotelemetry for predicting wolf–environment relationships in the Rocky Mountains of Canada." *Wildlife Society Bulletin* 33(4):1-9.
15. **Alexander, S. M.**, N.M. Waters, and P.C. Paquet. 2005. "Traffic volume and highway permeability for a mammalian community in the Canadian Rocky Mountains," *Canadian Geographer* 49(4):321-331.
16. Paquet, P.C. and **S.M. Alexander**. 2005. "Banff National Park: how helpful is highway mitigation." *Wild Earth* Fall/Winter: 70-71.
17. Wilkie, K.J., M.E. Tyler, and **S.M. Alexander**. 2003. "Conserving Habitat and Biodiversity in Urban Landscapes." *Environmental Informatics Archives* 1:190-196.
18. **Alexander, S.M.** and N.M. Waters. 2000. "The effects of transportation corridors on wildlife: a case study of Banff National Park." *Transportation Research, Part C: Emerging Technologies* 8(2000):307-320.

### Chapters in refereed books (11)

1. **Alexander, S.M.** 2015. "Carnivore conflict, management, and conservation GIS in Canada." In B. Mitchell, ed., *Resources and Environmental Management in Canada*. Ontario: Oxford University Press, 293-317.
2. Blue, G. and **S.M. Alexander**. 2015. "Coyotes in the city: gastro-ethical encounters in a more-than-human world." In R. Collard and K. Gillespie, eds, *Critical Animal Geographies: Politics, Intersections and Hierarchies in a Multispecies World*. New York: Routledge, 149-163.
3. **Alexander, S. M.** and N.M. Waters. 2014. "Road Ecology" In M. Garret, and J. G. Golson, eds, *The Encyclopedia of Transportation: Social Science and Policy*. Thousand Oaks, CA. SAGE Publications Inc. 1162-1165.
4. **Alexander, S.M.** 2012. "Coexisting with coyotes in Canada: lessons from the Calgary coyote project." In Udo Ganslößer, ed, *Hund, Wolf & Co*. Germany: Filander Verlag, 53-70.
5. Paquet, P.C., **S.M. Alexander**, and S. Donelon. 2010. "Influence of anthropogenically modified snow conditions on movements and predatory behaviour of gray wolves." In M. Musiani, L. Boitani, and P.C. Paquet, eds, *The World of Wolves and People: New Perspectives on Ecology, Behavior and Management*. Calgary: University of Calgary Press.157-173.
6. Quinn, M.S., and **S.M. Alexander**. 2007. "Information technology and the protection of biodiversity in protected areas." In K. Hanna, D. Clark, and S. Slocombe, eds, *Transforming Parks: Protected Areas Policy and Governance in a Changing World*. New York: Taylor & Francis Books Ltd. 62-84.
7. **Alexander, S.M.**, M.S.M. Pavelka, and N.H. Bywater. 2006. "Quantifying fragmentation of black howler (*Alouatta pigra*) habitat after hurricane Iris (2001), Southern Belize." In A. Estrada, P. Garber, M. Pavelka, and L. Luecke, eds, *New Perspectives in the Study of Mesoamerican Primates: Distribution, Ecology, Behavior and Conservation*. New York: Kluwer Academic Press, 539-559.
8. Paquet, P.C., **S.M. Alexander**, P.L. Swan, and C.T. Darimont. 2006. "The influence of natural landscape fragmentation and resource availability on connectivity and distribution of marine gray wolf (*Canis lupus*) populations on Central Coast, BC." In K. Crooks and M.A. Sanjayan, eds, *Connectivity Conservation*. Cambridge: Cambridge University Press. 130-156.
9. Benitez, J.A. and **S.M. Alexander**. 2006. "A GIS analysis of watershed change in the Candelaria River Basin, Mexico." In *Highlighting the impacts of North-South research collaboration among Canadian and southern higher education partners*. Ottawa: The Association of Universities and Colleges of Canada,107-116.
10. **Alexander, S.M.**, N.M. Waters, and P.C. Paquet. 2004. "A probability-based GIS model for identifying focal species linkage zones across highways in the Canadian Rocky Mountains." In

G. Clarke and J. Stillwell, eds, *Applied GIS and Spatial Modelling*. UK: University of Leeds, 233-255.

11. **Alexander, S.M.** and N.M. Waters. 2000. "GIS-T and the effects of highway transportation corridors on wildlife." In J.C. Thill, ed, *GIS and Environmental Modelling*. UK: Elsevier Science Ltd, 307-320.

### **Book Chapters and Journal Articles *In Press***

1. **Alexander, S.M.**, M.S. Quinn, S.A. Kennett, B. Stelfox, and M.E. Tyler. (*In press*). "Consequence and management of Alberta's energy infrastructure." In L. Adkin, ed, *Political Ecology in Alberta*. Toronto: University of Toronto Press.

### **Journal Article requiring removal of name at submission**

*(I retracted my name due to ethical conflict arising after my data were integrated and at final edit stage - lead authors added invasive trapping method without consensus – in direct conflict with ethics of my research lab and I could not pull data without compromising my Ph.D. student Lukasik)*

1. Murray M, Cembrowski A, Latham ADM, Lukasik VM, Pruss S, St Clair CC. 2015. Greater consumption of protein-poor anthropogenic food by urban relative to rural coyotes increases diet breadth and potential for human–wildlife conflict. *Ecography*. DOI: 10.1111/ecog.01128

### **Published Conference Proceedings (Print and CD): Abstracts and Presentations (64)**

1. **Alexander, S. M.** 2015. "Re-consilience: lessons from coyote". Second Conference for Compassionate Conservation. July 28-31, Vancouver, BC.
2. Lukasik V.M. and **S.M. Alexander**. 2015. "Carnivore management in western-Canada: perceptions of a lethal management paradigm." ICCB: 27th International Congress for Conservation Biology, 4th European Congress for Conservation Biology. August 2-6, Montpellier, France.
3. Lukasik, V.M. and **S. M. Alexander**. 2015. "The big bad wolf: wolves in pop culture." Calgary Comic and Entertainment Expo. April 26-28, Calgary, AB.
4. van Stam, E. and **S.M. Alexander**. 2014. "Human infrastructure effects on painted dogs (*Lycaonp ictus*) in Zimbabwe." Global Development Symposium. May 4-7, Guelph, ON.
5. Lukasik, V.M. and **S. M. Alexander**. 2014. "The big bad wolf: wolves in pop culture." Calgary Comic and Entertainment Expo. April 25-27, Calgary, AB.
6. Murray, M., A. Cembrowski, V. Lukasik, **S.M. Alexander**, D. Latham, and C.C. St. Clair. 2013. "Changes in coyote diet over a province-wide gradient of urbanization." Canadian Section of the Wildlife Society Annual Conference. March, Edmonton, AB.
7. **Alexander, S.M.** 2012. "Coexisting with coyotes." Invited speaker and abstract at the Living with Wildlife Conference. Hosted by the Association for the Protection of Fur-Bearing Animals. September 28-30, Toronto, ON.
8. **Alexander, S.M.** 2012. "Conservation GIS: extending the North American example to conservation of painted dogs in the KAZA Trans-Frontier Conservation Area." KAZA Symposium. Hosted by WWF and KAZA Secretariat. May 14-19, Caprivi Strip, Namibia.
9. Lukasik, V.M. and **S.M. Alexander**. 2012. "Challenges to coexistence with urban coyotes: A spatial-temporal analysis of diet and human-coyote interactions in Calgary, Alberta." Proceedings of the Columbia Mountain Institute of Applied Ecology Conference - Urban Wildlife: Challenges and Management. April 18-19, Cranbrook, BC.
10. Moehrenschrager, A., C. Moehrenschrager, **S.M. Alexander**, C. Cullingham, D. Gummer, and P. Fargey. 2012. "30 Years after the Reintroduction Began: Demographics, Habitat Use, and Genetics of Swift Foxes in Canada and Northern Montana." June, Grasslands National Park, AB.

11. Brichieri-Colombi, T. and **S.M. Alexander**. 2011. "Integrating cameras and tracking to examine wildlife road avoidance along a Mexican highway." Annual Meeting of the Society for Conservation Biology. December 5-11. Auckland, New Zealand.
12. **Alexander, S.M.** 2011. "Urban coyotes in Canada." Invited abstract, paper, keynote and panel speaker. 5<sup>th</sup> Annual Canid Symposium, Wolf and Co. October 28-30, Numbrecht, Germany.
13. **Alexander, S.M.** and M.S. Quinn. 2010. "Portrayal of coyote-human interactions in the popular media." The Pathways to Success: Integrating Human Dimensions into Fish and Wildlife Management Conference. September 28-30, Estes Park, CO.
14. Quinn, M.S. and **S.M. Alexander**. 2010. "Ranching and carnivores in the Waterton Biosphere Reserve, Alberta, Canada: A survey of landowners." The Pathways to Success: Integrating Human Dimensions into Fish and Wildlife Management Conference. September 28-30, Estes Park, CO.
15. Massolo, A., T. Wyman, S. Kutz, **S.M. Alexander**, A. Veitch, and B. Elkin. 2010. "Modelling Winter Tick *Dermacentor albipictus* distribution in the Northwest Territories, Canada: projected climate change affects the infestation risk on barren ground caribou populations." International Polar Year Oslo Science Conference. June 8-12. Oslo, Norway.
16. Watts, A. G. and **S.M. Alexander**. 2010. "Comparing urban and rural parasitism of coyote scat in Calgary, Alberta." Paper. Alberta Chapter of the Wildlife Society Conference. March 15-16. Red Deer, AB.
17. Lukasik, V.M. and **S.M. Alexander**. 2009. "A spatial-temporal analysis of coyote diet and human-coyote interactions, with a focus on urban greenspaces in Calgary, Alberta." Carnivores 2009, Carnivore Conservation in a Changing World. November 15-18, Estes Park, CO.
18. Lukasik, V.M. and **S.M. Alexander**. 2008. "Human-coyote conflict and coyote diet in Calgary's urban parks." Presented at the Pathways to Success Conference: Integrating Human Dimensions into Fish and Wildlife Management. September 27-30, Estes Park, CO.
19. Brichieri-Colombi, T. and **S.M. Alexander**. 2008. "Integrating systematic sampling and community maps to examine the distribution of wildlife relative to a highway in the Calakmul region, Mexico." Pathways to Success: Integrating Human Dimensions into Fisheries and Wildlife Management. September 27-30, Estes Park, CO.
20. **S.M. Alexander** and M.S. Quinn. 2008. "Perceptions surrounding coyote conflict in urban greenspaces: preliminary results from a media content analysis." Presented at the Canadian Parks for Tomorrow: 40<sup>th</sup> Anniversary Conference. July, Calgary, AB.
21. Lukasik, V.M. and **S.M. Alexander**. 2008. "Urban coyote diet and conflict in urban parks in Calgary, Alberta." Presented at the Canadian Parks for Tomorrow: 4<sup>0th</sup> Anniversary Conference. July, Calgary, AB.
22. Lukasik, V. and **S.M. Alexander**. 2007. "Urban coyote diet and conflict in Calgary, Alberta: initial results and potential management implications." 14th Annual Conference of the Wildlife Society. September 22-26, Tucson, AZ.
23. **Alexander, S.M.**, T. Lee, and M.S. Quinn. 2007. "Using non-invasive field methods and GIS to model wildlife-highway crossing zones." GeoTec Event 2007. May 7-10, Calgary, AB.
24. Moehrensclager, A., **S.M. Alexander**, C. Moehrensclager, and T. Brichieri-Colombi. 2007. "Demographics and habitat use of reintroduced swift foxes (*Vulpes velox*) in Canada and Northern Montana." Sixth International Science and the Management of Protected Areas (SAMPAA) Conference, May 21-26. Wolfville, NS.
25. Lukasik, V. and **S.M. Alexander**. 2007. "Urban coyote diet and conflict: initial findings and potential Implications." Canadian Society of Zoologists Annual Meeting. May 21-25, Montreal, QC.
26. Heck, N. Quinn, M.S., **S.M. Alexander**, G. Chernoff, and J. Rasmussen. 2007. "Spatial ecological analysis and risk modeling of bird collisions with electrical power transmission lines in Alberta." The Western Section of the Wildlife Society Conference: *Thinking like a Mountain: Wildlife Management and Conservation at a Landscape Level*. Jan 30-Feb 1, Monterey, CA.

27. Lukasik, V. and **S.M. Alexander**. 2007. "Urban coyote diet and conflict: what we know and where we're going." Alberta Chapter of the Wildlife Society 2007 Annual Conference. March 18-21, Canmore, AB.
28. McNeil, K. and **S.M. Alexander**. 2007. "Spatial relationships amongst Canadian lynx, snowshoe hare, and coyote in the Canadian Rocky Mountains." Alberta Chapter of the Wildlife Society 2007 Annual Conference. March 18-21, Canmore, AB.
29. **Alexander, S.M.** 2007. "Statistical approaches to examining wildlife-habitat relationships in the Rocky Mountains of Alberta, Canada." Interagency conference on GIS applications for the Candelaria Basin. February 19-23, Campeche, Mexico.
30. **Alexander, S.M.** 2007. "Case studies: GIS and wildlife in western Canada." Interagency conference on GIS applications for the Candelaria Basin. February 19-23, Campeche, Mexico.
31. **Alexander, S.M.**, P.C. Paquet, and T.B. Logan. 2006. "Co-occurrence of cougars (*Felis concolor*), wolves (*Canis lupus*) and their prey in the Canadian Rocky Mountains." Carnivores 2006: Habitats, Challenges and Opportunities. November 10-15, St. Petersburg, FL.
32. McNeil, K., and **S.M. Alexander**. 2006. "Habitat suitability models: determining probability of Canadian lynx presence in the Canadian Rocky Mountains." Carnivores 2006: Habitats, Challenges and Opportunities. November 10-15, St. Petersburg, FL.
33. Bricheiri-Colombi, T., P.A. Leighton, **S.M. Alexander** and D.D. Kramer. 2006. "Spatio-temporal co-occurrences and den use in female small Asian mongoose home ranges." Carnivores 2006: Habitats, Challenges and Opportunities. November 10-15, St. Petersburg, FL.
34. Rozalska, K.N., C.T. Darimont, P.C. Paquet, and **S.M. Alexander**. 2006. "Selection of gray wolf (*Canis lupus*) homesites on the central coast of British Columbia." Carnivores 2006: Habitats, Challenges and Opportunities. November 10-15, St. Petersburg, FL.
35. Lukasik, V., T. Stephens, and **S.M. Alexander**. 2006. "Examining the effects of data sources on the prediction of highway crossings for coyotes (*Canis latrans*) in the Canadian Rocky Mountains." Carnivores 2006: Habitats, Challenges and Opportunities. November 10-15, St. Petersburg, FL.
36. **Alexander, S.M.**, J.A. Benitez, and T. Bricheiri-Colombi. 2006. "Deforestation in the Candelaria Watershed, Mexico: a collaborative Initiative." CALACs 2006 Conference. September 28-31, University of Calgary, AB.
37. Krochko, N., M.S. Quinn, **S.M. Alexander**, J. Rasmussen, and G. Chernoff. 2006. "Spatial ecological analysis and risk modeling of bird collisions with electrical power transmission lines in Alberta." Organization of Wildlife Planners 2006 Annual Conference and Meeting: Planning for Wildlife Conservation in Cultural Landscapes. May 14-17, Canmore, AB.
38. **Alexander, S.M.** and J.A. Benitez. 2006. "Forest loss and water quality in the Candelaria Watershed and Gulf of Mexico." International Association of Landscape Ecologists. March 10-14, San Diego, CA.
39. **Alexander, S.M.**, P.C. Paquet, M.S. Quinn, P.L. Swan, E.L. Navid, and C.T. Darimont. 2006. "Relating island biogeography, landscape structure and marine resources to the distribution, ecology and population structure of coastal gray wolves (*Canis lupus*) in British Columbia, Canada." International Association of Landscape Ecologists. March 10-14, San Diego, CA.
40. **Alexander, S. M.** and D.C. Duro. 2005. "Habitat fragmentation and water quality in the Candelaria watershed, Mexico." Congreso Internacional Sobre Agua en la Frontera Mexico-Guatemala-Belice. May 10-13, Universidad Autonoma de Campeche, Campeche, Mexico.
41. Duro, D.C. and **S.M. Alexander**. 2005. "Geostatistical modeling of chlorophyll a concentrations using modis imagery: a test case study of the Terminos Lagoon, Mexico." Congreso Internacional Sobre Agua en la Frontera Mexico-Guatemala-Belice. May 10-13, Universidad Autonoma de Campeche, Campeche, Mexico.
42. Bricheiri-Colombi, T.A., P. Leighton, **S.M. Alexander**, and D.L. Kramer. 2005. "Nocturnal shelter use and home range in the small Indian mongoose." SQÉBC. November, Montreal, QC.
43. **Alexander, S.M.** and J.A. Benitez. 2005. A GIS Analysis of Watershed Change in the Candelaria River Basin, Mexico. Association of Universities and Colleges of Canada, North-South Collaboration Colloquium. July 2005, Ottawa, ON. (8pp).

44. Etherington, T.R. and **S.M. Alexander**. 2005. "The effect of framing bias on resource selection models for grizzly bears (*Ursus arctos horribilis* hord) in Kananaskis Country, Alberta." Annual Meetings. Royal Geographic Society of England. July, London, UK.
45. **Alexander, S.M.** and P.C. Paquet. 2004. "Scale dependent habitat associations within and amongst carnivores and prey in the Canadian Rocky Mountains." Defenders of Wildlife, Carnivores 2004 Conference. November, 2004, Santa Fe, NM.
46. **Alexander, S.M.**, P.C. Paquet, and N.M. Waters. 2004. "Carnivores, roads and habitat permeability in the Canadian Rocky Mountains: a community level study." Defenders of Wildlife, Carnivores 2004 Conference. November, Santa Fe, NM.
47. Etherington, T.R. and **S.M. Alexander**. 2004. "Comparing alternative representations of available habitat and framing bias in resource selection models." Defenders of Wildlife, Carnivores 2004 Conference. November, Santa Fe, NM.
48. Swan, P.L., **S.M. Alexander**, P.C. Paquet, and C.T. Darimont. 2004. "Modelling gray wolf (*Canis lupus*) distribution and resource selection in coastal temperate rainforests of British Columbia, Canada," Defenders of Wildlife, Carnivores 2004 Conference. November, Santa Fe, NM.
49. Kang, H. and **S.M. Alexander**. 2004. "Using logistic regression to predict lynx occurrence in Banff National Park, Alberta." Proceedings e Canadian Association of Geographers Conference, July, Ottawa, ON. .
50. Muhly, T., C.C. Gates, C. Callaghan, **S.M. Alexander**, C. Mamo, and M. Musiani. 2004. "Modeling risk of livestock to depredation by wolves in southwestern Alberta." Wildlife Society Conference. September, Calgary, AB.
51. Swan, P.L., **S.M. Alexander**, P.C. Paquet, and C.T. Darimont. 2003. "Focal species, biodiversity and island biogeography on the central coast of British Columbia, Canada: a GIS approach." Coastal-GIS Conference. October, Geneva, Switzerland.
52. **Alexander, S.M.** 2003. "Wolves (*Canis lupus*) and roads: barrier effects and scale dependent habitat associations." World Wolf Congress. September, Banff, AB.
53. Etherington, T.R. and **S.M. Alexander**. 2003. "Framing bias and resource selection models for gray wolves (*Canis lupus*) in Canada." World Wolf Congress. September, Banff, AB.
54. Muhly, T., T.C. Callaghan **S.M. Alexander**, C. Mamo, C.C. Gates, and M. Musiani. 2003. "Predicting risk of livestock depredation by wolves in southwestern Alberta." World Wolf Congress. September, Banff, AB.
55. **Alexander, S.M.**, C.T. Darimont, P.C. Paquet, and P.L. Swan. 2003. "The influence of natural landscape fragmentation and resource availability on connectivity and distribution of marine gray wolf (*Canis lupus*) populations on central coast, BC." Society of Conservation Biology Conference Proceedings. June 29, Deluth, MN.
56. **Alexander, S.M.** and N.M. Waters. 2003. "Modelling wildlife movement and planning mitigation in highway transportation corridors." The 4<sup>th</sup> International Ecological Modelling Conference. September, Banff, AB.
57. Logan, T., **S.M. Alexander**, D.J. Saher, and P.C. Paquet. 2003. "A comparison of track transect versus telemetry data in the development of resource selection functions for wolves in Kananaskis Country, Alberta." International Wolf Conference. Defenders of Wildlife. April, Chico, WY.
58. **Alexander, S.M.**, P.C. Paquet, N.M. Waters, R.F Noss, and C. Carroll. 2000. "A decision support system for selecting optimal focal species." 14<sup>th</sup> Annual Meeting of the Society of Conservation Biology Proceedings. June, Missoula, MT.
59. **Alexander, S.M.** and N.M. Waters. 1999. "Decision support methods for assessing placement and efficacy of road crossing structures for wildlife." The Third International Conference on Wildlife Ecology and Transportation Proceedings. September, Missoula, MT. Pg 237-246
60. **Alexander, S.M.** and N.M. Waters. 1999. "Sensitivity of predictive wolf movement models." GIS '99, Geosolutions: Integrating our World. The Thirteenth Annual GIS World 1999 Conference Proceedings. March 1-4, Vancouver, BC. Pg 165-168.
61. **Alexander, S.M.**, P.C. Paquet, and N.M. Waters. 1997. "Playing god with GIS: uncertainty in wolf habitat suitability models." GIS '97 Integrating Spatial Information Technology for Tomorrow.

Eleventh Annual GIS World Conference Proceedings. February 17-20, Vancouver, BC. Pg 449-453.

62. **Alexander, S.M.** and N.M. Waters. 1996a. "A GIS-based decision support model for resolving land use conflicts." Caring for Home Place - Landscape Ecology Conference Proceedings. CSLEM, University of Saskatchewan. September 29-Oct. 1, Regina, SK. Pg. 159-173.
63. **Alexander, S.M.** and N.M. Waters. 1996b. "Decision support methods for resolving land use conflicts." GIS-LIS 1996 Annual Conference and Exposition Proceedings. November 19-21, 1996. Denver, CO. Pg. 1152-1168
64. **Alexander, S.M.**, C. Callaghan, P.C. Paquet, and N.M. Waters. 1996. "GIS predictive models of habitat use by wolves (*Canis lupus*)." GIS '96: Ten Years of Excellence, GIS World 1996 Conference Proceedings. March 17-20, Vancouver, BC.

### Conference Posters (9)

1. Lukasik, V.M. and **S. M. Alexander**. 2014. "Historic and current carnivore management practices in the Canadian west: influences of tradition, values, perceptions and a deadly management paradigm." Global Development Symposium. May 4-7. Guelph, ON.
2. Lantz, J. and **S.M. Alexander**. 2014. "Interactions amongst humans, domestic dogs (*Canis familiaris*), livestock and coyotes (*Canis latrans*) on Glenbow Ranch Provincial Park, Alberta." Global Development Symposium. May 4-7. Guelph, ON.
3. Watts, A. G., **S.M. Alexander**, Kutz, S. Massolo, A. 2010. "Comparing urban and rural parasitism of coyote scat in Calgary, Alberta." Poster. *Wildlife Disease Association 2010 International Conference*. June, Puerto Iguazu, Argentina.
4. Lukasik, V.M. and **S.M. Alexander**. 2007. "Urban coyote diet and conflict in Calgary, Alberta: initial results and potential management implications." Poster presented at the 14<sup>th</sup> Annual Conference of the Wildlife Society. June, Tucson, AZ.
5. Swan, P.L. and **S.M. Alexander**. 2003. "Influence of alternate sets of pseudo-absence points on resource selection models for wolves (*Canis lupus*)." World Wolf Congress. September, 2003, Banff, AB.
6. **Alexander, S.M.**, M.S.M. Pavelka, and N.H. Bywater. 2003. "Cumulative effects of hurricane Iris (2001) on howler monkey (*Alouatta pigra*) habitat connectivity in Belize." Annual International Primatology Association Conference. July 20, Calgary, AB.
7. **Alexander, S.M.**, D.L. Duke, and P.C. Paquet. 2003. "Modelling carnivore habitat-use, travel patterns and human activity around the Town of Canmore, Alberta." June, 2003, University of Calgary, Calgary, AB.
8. **Alexander, S.M.**, D.L. Duke, and P.C. Paquet. 2003. "Modelling carnivore habitat-use, travel patterns and human activity around the Town of Canmore, Alberta." Y2Y: Making the Links. April 8-10, Calgary, AB.
9. **Alexander, S.M.**, J. Cook, J. Ryon, and B. Blacklock. 1992. "A non-lethal deterrent for livestock predation by coyotes and wolves." Poster presentation, International Wolf Symposium, August 1992, Edmonton, AB.

### Technical Reports (9)

1. Quinn, M.S. and **S.M. Alexander**. 2011. "Carnivores and communities in the Waterton Biosphere Reserve." Prepared for the Chinook Land Users Association, the Waterton Biosphere Reserve Association, and Miistakis Institute for the Rockies. 32p.
2. Moehrenschrager, A., **S.M. Alexander**, and T. Brichieri-Colombi. 2007. "Habitat suitability and population viability analysis for reintroduced swift foxes in Canada and Northern Montana." Centre for Conservation Research Report No. 2. Calgary, Alberta, Canada. 30p.



3. Kennett, S., **S.M. Alexander**, D.L. Duke, M.M.P. Ross, M.S. Quinn, B. Stelfox, M.E. Tyler, and N. Vlavianos. 2006. "Managing Alberta energies futures at the landscape scale." Institute for Sustainable Economy, Energy and Environment, University of Calgary, Alberta. 101 p.
4. **Alexander, S.M.** and J.A. Gailus. 2005. "A GIS based approach to restoring connectivity across the Trans-Canada Highway in Banff National Park." Report for Yellowstone to Yukon Initiative, Canmore, Alberta. 24p.
5. **Alexander, S.M.**, D.L. Duke, and P.C. Paquet. 2002. "Wildlife movement corridors around the mountain town of Canmore, Alberta." Research report funded by Wilburforce Science Initiative. 51p.
6. Noss, R.F., C. Carrol, P.C. Paquet, and **S.M. Alexander**. 2001. "A conservation biology primer for the BC Coast, Canada." Sierra Club, Canada.
7. **Alexander, S.M.** 1994a. "An assessment of snow-compaction effects on sub-nivean habitat and small mammals in the Visitor Centre meadow, Peter Lougheed Provincial Park (PLPP)." Report compiled for Alberta Environmental Protection, Kananaskis West District (KWD), Environmental Programs.
8. **Alexander, S.M.** 1994b. "An ecological review of the PLPP boundary and Kananaksis Country zoning system in relation to Special Places 2000." Report compiled for Alberta Environmental Protection, KWD, Environmental Programs.
9. **Alexander, S.M.**, R. Wedgewood, and P.C. Paquet. 1992. "Background report for the carnivore conservation strategy workshop, organized by S. Alexander and P. Paquet for World Wildlife Fund. Banff, AB.

#### 4) FELLOWSHIPS, GRANTS, FUNDING AND CONTRACTS

##### External Research Funding 2001-2015 (\$365,673 cash / \$331,000 cash equivalent)

Apr. 2015	\$111, 264.00 - <b>SSHRC Insight Development Grant</b> – Human-Coyote Relationships in the Foothills Parklands of Alberta
Jan. 2014	\$5,000 - ACA Biodiversity grant – Coyote and Human Interactions on Glenbow Ranch Provincial Park – (MSc. student research funding)
Nov. 2012	Cash Equivalent - Planet Action Grant – ArcGIS license and software for Zimbabwe Painted Dog research collaborator to use in situ and Calgary. (est. \$25,000)
Nov. 2012	Cash Equivalent - Planet Action Grant – Spot Imagery (Remotely Sensed imagery) of Zimbabwe Painted Dog research collaboration study area. (est \$250,000)
Jan. 2013	\$6,730 - ACA Biodiversity Grant – Carnivore Management in Canada – (PhD student research funding)
Feb. 2010 -	\$30,000 - Calgary Foundation - Living with Coyotes Project (with Miistakis Institute)
Feb. 2010 -	\$5,000 - Dunlop Foundation - Living with Coyotes Project (with Miistakis Institute)
Feb. 2010 -	\$10,000 - TD Environment Fund - Living with Coyotes Project (with Miistakis Institute)
Feb. 2010 -	\$10,000 - Shell Canada Environment Fund - Living with Coyotes Project (with Miistakis Institute)
Mar. 2010 -	\$8,529 - ACA Biodiversity Grant – Calgary Coyote Project (MSc. student funding)
Jan. 2009 -	\$30,000 - Waterton Biosphere Reserve, Carnivore-Human Dimensions Research and Technical Report (with Miistakis, Dr. M. Quinn as primary).
Mar. 2008 -	\$8,000- Government of Canada, Grasslands National Park for Swift Fox Recovery GIS model extension to AB (contact Pat Fargy, GNP)

Jan. 2009	\$10,000 - University of Campeche, EPOMEX - support purchasing 15 additional remote triggered cameras for collaborative research on highway fragmentation in Calakmul, MX (contact Dr. Jorge Benitez)
Jan. 2009 -	\$7,500 -- University of Campeche, EPOMEX - student stipend (\$500/month @ 6 mth) gas, accommodation field site, field assistant stipend (\$4,500.00) & Cash Equivalent \$4,000 office space, computer, web-access, cell-phone (contact Dr. Jorge Benitez)
Mar. 2008	\$7,000 – University of Campeche, EPOMEX - purchase of vehicle for collaborative research in Calakmul
Jan. 2008 -	\$7,500 – University of Campeche, EPOMEX - student stipend (\$500/month @ 6 mth) gas, accommodation field site, field assistant stipend (\$4,500.00) & Cash Equivalent \$4,000 - office space, computer, web-access, cell-phone
Mar. 2007	\$14,000 (USD) - Wildlife Conservation Society – carnivore highway research in MX
June 2006 -	\$22,000 - Government of Canada, Species at Risk Program for Grassland National Park - research assistant supervised by Dr. Alexander, Swift Fox Recovery program. (employed 1 student 8 months, plus equipment)
Dec 2006	\$10,000 - City of Calgary - Calgary Urban Coyote Project (diet, ecology and conflict)
June 2006 -	\$6,500 – AUCC/IDRC International Resident Fellowship - Fragmentation Research in Campeche State, MX, collaborator Dr. Jorge Benitez, University of Campeche.
Nov 2004 -	Cash Equivalent - housing, vehicle and gas for MSc. field research, Jay Doyle, MSc student. Alberta Natural Resources, Canmore. (est.\$7,000)
Aug. 2004 -	\$4,000 - Campeche University, EPOMEX - Direct project support – lodging, food, field research transport, 10 days @ 2 persons. (contact Dr. Jorge Benitez)
July. 2004 -	Cash-equivalent - Raincoast Society of British Columbia – Predicting Coastal Gray Wolf Resource Selection (boat, gas, accommodation, food, field supplies for 1 student) Contact P. Paquet ( <a href="mailto:ppaquet@baudoux.ca">ppaquet@baudoux.ca</a> ) (est. \$5,000)
April 2004-	\$5,000 (USD) Wilburforce Science Award - Resource Selection Model for Coastal Wolves in British Columbia
Feb. 2004 -	\$3,000 plus Cash Equivalent- Yellowstone to Yukon (Y2Y) Initiative - Examining the Cost Effectiveness of Alternative Highway Mitigation Strategies (est. \$2,000 in kind)
Jan 2004 -	\$9,750 - Calgary Zoo Conservation Science Centre - Full-time staff support on collaborative Swift-fox Resource Selection Modelling – tech. rep. (contact Pat Fargy)
Jan 2003 -	Cash Equivalent - Alberta Environment - Movement Patterns of Grizzly Bears in the Evan Thomas Valley - for housing, vehicle and gas for MSc. student (est. \$7,000)
Sept. 2002 -	Cash Equivalent - Raincoast Society of British Columbia – Spatial Analysis of Coastal Wolf habitat (Contact Dr. P. Paquet – <a href="mailto:ppaquet@baudoux.ca">ppaquet@baudoux.ca</a> (est. \$27,000)
Sept. 2002 -	\$12,500 – Government of Canada - Grasslands National Park - Swift fox Resource Selection Modelling in Southeastern AB, Southwestern-SK and Montana – for Swift-fox resource modeling technical report (contact Pat Fargy GNP)
May 2001	\$22,400 - Wilburforce Science Foundation - Modelling Carnivore Movement Patterns around the Town of Canmore, Alberta – tech. rep. with Duke and Paquet

#### Internal University Research Funding (total \$30,819)

July 2006	UIGC (International Programs UofC) Faculty Grant \$4,200 for Transboundary GIS initiative – Campeche and Calgary.
July 2001 - Mar 2004	University of Calgary, Research Excellence Envelope, \$15,000 for research start up.
2006	URGC Faculty Travel Grant \$1,619 for International Conference
Jan. 2001 – Sept. 2002	URGC Faculty Research Starter Grant \$10,000 for studying hurricane effects on howler monkeys in Southern Belize. Collaborative with Dr. Pavelka, Anthropology

### **NSERC Funded Graduate Students**

- 2013-15 Jamie Lantz, Human-Coyote-Dog interactions in Protected Areas near Calgary, Alberta  
2009-12 Alexander Watts, Urban versus Rural Coyote Parasite Evaluation, Calgary, Alberta  
2007-09 Victoria Lukasik, Urban Coyote Diet in Calgary, Alberta

### **SSHRC Funded Graduate Students**

- 2013-15 Victoria Lukasik, Carnivore Management in Canada: Attitudes, Values and Perceptions

### **Other International Funded Graduate Students**

- 2004-06 Jay Doyle, MSc. Geography. Movement Patterns of Carnivores around Lefarge Property, Exshaw, Alberta. United Kingdom, Canadian Commonwealth Scholarship, \$48,000.  
2003-05 Thomas Etherington, MSc. Geography. Spatial Analysis of Grizzly Bear Movement in the Evan Thomas Creek, Kananaskis Country, Alberta. Canadian Commonwealth Scholarship, \$48,000.

## **5) SERVICE**

### **University**

- 2010- present Chancellor's Club (\$1500 for personal donation to scholarship and 3 events/year)  
2001- 2003 Chancellor's Club (\$1500 for personal donation to scholarship and 3 events/year)  
2014- present Representative for Faculty of Arts to GFC: Elected June 2014  
2014- 2015 URGC Grants Review Committee  
2013-2104 TUCFA, Geography Representative

### **Faculty of Arts**

- 2013 AARC – Annual Academic Review Committee Member: FOA Promotions June 2013  
2012-present Faculty of Arts Executive: Nominations Sub-Committee Chair (ongoing 2013-present)  
2012-present Faculty of Arts Executive Committee Member  
2011 Faculty of SS Executive: Nominations Sub-Committee Chair (absent Jan-July 2012)  
2011 Faculty of SS Executive Committee Member (absent during sabbatical Jan-July 2012)  
2005 Faculty External Representative, Anthropology Hiring Committee, Asst. Prof. Position  
2003 Student Appeals Committee Member (6 month term)

### **Department of Geography**

- 2013 Member, Geography Department Conference Organizing Committee (Jan-Mar 2013)  
2012 Acting Dept. Head (Aug 2-10)  
2009 Acting Dept. Head, Geography (June 16-July 1)  
2008-present Graduate Seminar Series Coordinator, Geography  
2008-present Executive Council Representative, Geography  
2001-present Member, MGIS Graduate Selection Committee, Geography  
2005 Acting Director, MGIS Program, Geography (June)  
2004-2007 Member, Graduate Student Intake Review Committee, Geography  
2004-2007 Member, Public Relations Committee, Geography  
2004-2007 Member, Events Planning Committee, Geography  
2001-2009 Member, MGIS Steering Committee, Geography  
2002-2003 Coordinator of Departmental Seminar Series, Geography  
2001-2002 Coordinator of Departmental Seminar Series, Geography

## 6) GRADUATE SUPERVISION (2001-present)

### Summary of Graduate Students Supervision and Examination

	PhD supervisor	Masters Supervisor MSc. (MGIS)	Examiner Comprehensive Oral (MGIS) – additional to supervised	Examiner MSc. External	Examiner PhD Int/Ext Candidacy (Defence)	Neutral Chair (MSc. and PhD)
Completed	1	6 (22)	26	23	13(7)	13
in progress	2	1 (5)				

### Current Supervision

#### Faculty of Arts

##### *Department of Geography – PhD*

- 2014 Plotsky, Kyle. Effectiveness of Coyote Hazing in North America  
 2011 Lukasik, Victoria. Attitudes and Values towards Management of Carnivores in Canada

##### *Department of Geography – MSc./MGIS*

- 2015 Nui, Hongyu. MGIS. Spatial Analysis of Citizen Science data for Calgary Coyotes  
 2015 van Stam, Elizabeth. MGIS. Painted Dog Habitat Selection in Zimbabwe  
 2013 Illyas, Yassir. MGIS. A Citizen Science Web-GIS for Painted Dogs in Zimbabwe  
 2013 Lantz, Jamie. MSc. Human-Coyote interactions on the Glenbow Ranch Provincial Park  
 2012 van Stam, Elizabeth. MGIS. Painted Dog Habitat Selection in Zimbabwe  
 2009 Tareen, Shazad. MGIS. Distributed GIS in Community Development  
 2009 Olaya Neito, Francisca. MGIS. (on leave) Evaluation of Waterfowl Habitat using GIS

#### Undergraduate Honors (incoming)

- 2015 Carleson, Kirstine. Honors Undergraduate. Spatial Analysis of Citizen Science Data for Coyotes in Calgary (2008-2013)

### Graduates Supervised (Completed Program)

#### Faculty of Arts

##### *Department of Geography – PhD*

- 2012 Brichieri-Colombi, T. Effects of Highway Development on Felids in the Calakmul Biosphere Reserve, MX

##### *Department of Geography – MSc.*

- 2011 Fortin-McCuaig, M. Urban vs. Rural Diet in Coyotes, Calgary  
 2011 Watts, A. Urban vs. Rural Parasite Risk in Coyotes, Calgary  
 2009 Lukasik, V. Coyote Diet Ecology in Calgary, Alberta  
 2007 Rozalska, K. Effects of Future Management Plan Scenarios on Focal Carnivore Habitat Potential in the Great Bear Rainforest, British Columbia  
 2005 Etherington, T. Multi-Carnivore Habitat Use and Movement within Evan Thomas Valley, Kananaskis Country, Alberta.  
 2005 Swan, P. Spatial Analysis of Resource Selection by Wolves on the Central Coast of BC.

##### *Department of Geography - MGIS*

- 2014 Hoyles, V. MGIS, Spatial Epidemiology and Caribou in the NWT  
 2009 Chung, T. MGIS. Scale Effects on Carnivore Habitat Associations.  
 2009 Akpanekong, A. MGIS. Soil Loss Erosion and Flood Risk for the Elbow River, Calgary

- 2007 Marjerrison, A. MGIS. Predicting Effects of Mining Operations on Predatory Bird Nesting
- 2007 McNeil, K. MGIS. Lynx and Coyote Co-occurrence in Banff National Park
- 2007 Walker, A., MGIS. Trans-Canada Highway Wildlife Mitigation: Model Comparisons
- 2006 Bhopal-Kaushal, R., MGIS. Spatial Analytical Frame and Cougar Resource Selection
- 2006 Brichieri-Colombi, T. MGIS. Densite Use by Female Mongoose in Barbados
- 2006 Aryol, S. MGIS. Using Spatial DSS to Identify Optimal Sites for Locating School Facilities in the Kathmandu Valley of Nepal
- 2006 Duro, D. MGIS. Fragmentation and Jaguar Habitat in Candelaria River Basin, MX
- 2006 Li, Z. MGIS. Large Carnivore Environmental Relationships in the Central Rockies
- 2006 Mardon, C. MGIS. Baseline Assessment of Habitat Potential on the Outer Islands of the British Columbia Coastal Archipelago
- 2006 Quintero-Perez, J. MGIS. Resource Selection by Hawks in Mexico.
- 2005 Luinstra, M., MGIS. Changes in Spatial Configuration and Composition of Howler Monkey Home Ranges after a Major Hurricane Event, Monkey River, Belize.
- 2004 Kang, H., MGIS. Remote Sensing Classification Procedures and the Associated Effects on Lynx Habitat Selection Models.
- 2004 Farries, N., MGIS. Using Cellular Automata to Model the Spread of Pine Bark Beetle around Canmore, Alberta.
- 2004 Rodriguez, A. MGIS. An ArcGIS Based Spatial Decision Support System for Natural Resource Management.
- 2004 Bywater, N., MGIS. The Effects of Hurricane Iris (2001) on Howler Monkey Habitat Fragmentation Effects in Monkey River, Belize.
- 2004 Jordan, C., MGIS. Selective Updating Using ArcObjects.
- 2004 Mukherjee, R., MGIS. Spatial Analysis of Meso-Carnivores and Prey in Rockies
- 2004 Sobota, B. MGIS. Implications of Varying Scale on Logisitic Regression Output for GIS
- 2003 Logan, T.B., MGIS. Habitat Suitability Modelling and Resource Partitioning of Cougar (*Felis concolor*) in the Alberta Rocky Mountains: A Community Ecology Approach.

#### *Undergraduate Honours (Geography)*

- 2007 Kingsman, K. Honors Undergraduate. Comparing Two GIS Techniques to Model Marten (*Martes Americana*) habitat in the Canadian Rocky Mountains.
- 2004 Carli, C. Honors Undergraduate. Modelling Grey Wolf (*Canis lupus*) Resource Selection in the Central Canadian Rockies, an Information Theoretic Approach

#### **Graduates Committee Member/Examiner**

##### Faculty of Arts

##### *Department of Geography — Ph.D.*

- 2010 Kincaid, A. Attitudes and Values of Free Roaming Horses in Alberta
- 2007 Lieski, D. Comparing Analytical Methods in Resource Selection Modelling

##### *Department of Geography — MSc. MA, and MGIS Comprehensive Exams*

- 2013 Reikie, R. MGIS.
- 2013 Saeed, H. MGIS.
- 2010 Lee, J. MGIS.
- 2010 Wei, W. MGIS.
- 2008 Li, M. MGIS.
- 2007 Peters, Chris. MGIS.
- 2007 Yang, Guan. MGIS.
- 2007 Meng, Y. MGIS.
- 2006 McKenzie, B. MGIS.
- 2006 Liang, W. MGIS.

- 2006 Knaga, P. MGIS.
- 2005 Shukster, I. MGIS.
- 2005 Carra, B. MGIS.
- 2005 Law, T. MGIS. Sensitivity of Manning's H in HEC-RAS Flood Modelling
- 2005 Behre, T. MGIS. GIS and Remote Sensing Applications in Decision Support
- 2004 Chen, H. MGIS. Mining GIS Applications
- 2003 Podgurny, E. MGIS. Resource Selection of Kangaroo Rats, Suffield Military Base
- 2003 Lovecchio, J. MGIS. Wind Power Generation for Ski Resorts in Banff National Park
- 2003 Proudfoot, W. MGIS. Evaluation of eCognition for the Extractions of Wetland and Drainage Features.
- 2003 Schwab, B. MSc. Graph Theoretic Methods for Examining Landscape Connectivity and Spatial Movement Patterns: Application to the FMF Grizzly Bear Research Project.
- 2003 Tooth, G. MGIS. Use of Multi-spectral Remote Sensing to Quantify Corral Reef Damage.
- 2002 Komierowski, M. MGIS. Using GIS to Identify Wind Erosion Risk
- 2002 Lee, J. MGIS. Simulation Model of Animal Movement
- 2002 Poon, A. MGIS. An SDSS Approach to Assessing Land Suitability
- 2002 Yassin, N. MGIS. A SDSS for Determining Oil and Gas Pipeline Routes
- 2002 Wright, J. MGIS. Internet GIS: The Nunavut Placename Management System

*Department of Anthropology and Archeology – PhD*

- 2015 Benfer, A. Movement of Early Humans in North America
- 2012 Amundsen-Meyer, L. Integrating GIS in predictive models of site occupancy

*Department of Anthropology and Archeology – M.Sc./MA*

- 2013 Champion, J. Spider Monkey Dietary Response to Hurricane and Fire Disturbance.
- 2011 Parr, N. Effects of Linear Disturbance on Primates
- 2010 Ingraldi, C. Forest Fragmentation on Eight Sympatric Lemur Species in SE Madagascar
- 2007 McGoogan, Keriann. Howler Monkey Habitat Analysis
- 2005 DeGama-Blanchet, Holly. The Effects of Forest Fragment Age, Isolation, Area, Habitat Type, and Water Availability on Monkey Density in a Tropical Dry Forest
- 2004 Wong, S. *Colobus vellerosus* in a Fragmented Landscape: Population Status and Habitat
- 2003 Behie, A. The Effect of a Major Hurricane on the Diet, Activity, and Food Supply of *Alouatta pigra* in Southern Belize

Faculty of Environmental Design — MEdes

- 2008 Garrow, D. Interactions between Wildlife and Recreation Activities in Alberta
- 2008 Laporte, Isabelle. Interactions between wolves and cattle in S. Alberta
- 2008 Brachard, Elyse. Conservation based residential development in Calgary, AB
- 2007 Heck, N. Bird-Transmission line Collision Modelling in Alberta
- 2006 Noel, K. Elk Habitat Relations in Southern Alberta
- 2004 Muhly, T. A Spatial Analysis of Wolf-Cattle Interactions in Southwestern Alberta
- 2003 Wilkie, K. Focal Species Habitat Connectivity in the Pine Creek Watershed, AB

Faculty of Computer Science – MSc.

- 2013 Dunlap, M. Citizen Science and Geocaching Applications

Faculty of Graduate Studies: Interdisciplinary Graduate Program – MSc.

- 2008 Navid, E. Modelling Genetic Flow of Coastal Wolves on the Central Coast of BC
- 2007 Lee, T. Use of Expert Knowledge to Define Movement Corridors for Wildlife

Faculty of Medicine — PhD

- 2014 Van Rheenen, S. Spatial Analysis of TIA Incidence and Mortality in Alberta

Faculty of Science — Ph.D

*Biological Sciences*

- 2015 Cantin, A. Fish Population Ecology in Alberta  
2007 Lausen, C. Migratory patterns of little brown bat in Southern Alberta

Faculty of Science — MSc.

*Biological Sciences*

- 2013 Kremer, C. Stickleback spatial analysis.  
2006 Robertson, S. Patterns and Effects of Bot Fly Parasitism in Ord's Kangaroo Rats  
2005 Gavin, S. Road Effects on Antelope Movement in Southeastern Alberta  
2004 Luszcz, T. Community Structure and Habitat Use of Forest-dwelling Bats  
2003 Park, J. Effects of Scale on Habitat Selection by Pine Bark Beetles

**Masters Committee Member/Examiner External to University**

- 2013 Porter, K. Spatial Overlap between Human and Coyote (*Canis latrans*) in Cape Breton Highlands National Park of Canada. Dalhousie University. Department of Psychology, Science.

**Ph.D. Candidacy Exam Committee Member**

Faculty of Social Sciences

*Department of Geography*

- 2013 Kincaid, A. Free Roaming Horses in Alberta  
2013 Whyte, G. Flood Risk and Waste Management in Alberta  
2006 Linke, J. Issues of Scale in Wildlife Habitat Modelling  
2004 Lieski, D. Comparing Analytical Methods in Resource Selection Modelling  
2004 Thompson, E. Inuit Community Planning for Cruise Ship Tourism Opportunities

*Department of Anthropology*

- 2015 Benfer, A. Movement and Migration in North America  
2013 Beaulie, T. Spatial Analysis of Travel Routes in Alberta  
2007 Bright, O. Cultural Anthropology in Rural Africa

Faculty of Biological Sciences

*Department of Biology*

- 2015 Cantin, A. Population Ecology in Fish  
2010 Coleman, J. Distribution of Bats in Calgary Urban Centre  
2011 Mousseau, T. Historical Island Biogeographical Patterns in Beetles  
2007 Lausen, C. Bat Behavioral Ecology and Response to Human Disturbance

Cumming School of Medicine — PhD

- 2012 Van Rheenen, S. Spatial Analysis of TIA Incidence and Mortality in Alberta

## 7) INSTRUCTION (2001-present)

### Graduate Courses Taught

#### Lectures (number of students)

2014 Fall (11)	GEOG 699	Philosophy and Nature of Physical Geography
2013 Fall (12)	GEOG 699	Philosophy and Nature of Physical Geography
2012 Fall (8)	GEOG 699	Philosophy and Nature of Physical Geography
2011 Fall (9)	GEOG 619	Spatial Ecology
2009 Fall (21)	GEOG 607	GIS Basics and Beyond
2009 Fall (10)	GEOG 619	Spatial Ecology
2009 Winter (6)	GEOG 619	Spatial Ecology
2008 Fall (16)	GEOG 607	GIS Basics and Beyond
2007 Winter (5)	GEOG 619	Spatial Ecology
2006 Fall (19)	GEOG 607	GIS Basics and Beyond
2006 Winter (12)	GEOG 619	Spatial Ecology
2005 Fall (19)	GEOG 699.47	GIS Basics and Beyond
2005 Winter (16+3A)	GEOG 619	Spatial Ecology, (Formerly 695.11)
2004 Fall (30)	GEOG 699.47	GIS Basics and Beyond
2004 Winter (4)	GEOG 619	Spatial Ecology
2003 Fall (10+5A)	GEOG 619	Spatial Ecology
2003 Winter (10)	GEOG 619	Spatial Ecology, (Formerly 695.11)
2002 Fall (7)	GEOG 695.11	Spatial Ecology
2002 Winter (12)	GEOG 695.11	Spatial Ecology

#### Seminars

2015 Spring	GEOG 697	Citizen Science GIS
2009 Spring	GEOG 795.21	Foundations in Fragmentation Theory
2009 Spring	GEOG 795.22	Spatial Epidemiology
2009 Winter	GEOG 695.03	Conservation Applications in GIS
2009 Winter	GEOG 681	Literature MGIS
2009 Winter	GEOG 683	Project MGIS
2008 Fall	GEOG 699.04	Conservation GIS in Ungulate Management
2008 Fall	GEOG 699.07	Spatial Epidemiological Applications in GIS
2006 Fall	GEOG 795.06	Readings in Conservation GIS
2005 Fall	GEOG 799.03	GIS for Environmental Science
2005 Summer	GEOG 795.04	Readings in Coastal Ecology
2005 Winter	GEOG 699.24	Reading in Spatial Ecology
2004 Winter	GEOG 599.17	GIS Methods in Habitat Analysis
2004 Fall	GEOG 699.20	Advance Topics in Spatial Ecology
2004 Fall	GEOG 799.02	Applied Spatial Ecology
2003 Fall	GEOG 599.16	Habitat Disturbance Ecology
2003 Fall	GEOG 799.12	Advanced Ecological Modelling
2003 Winter	GEOG 695.23	GIS Wildlife Applications
2003 Winter	GEOG 795.16	GIS Applications in Conservation
2002 Fall	GEOG 695.13	Conservation Ecology
2002 Fall	GEOG 699.16	Coastal Applications in GIS
2002 Fall	GEOG 795.10	Introduction to GIS Upgrade
2001 Fall	GEOG 695.12	Conservation Biology and GIS



## **Undergraduate Courses Taught**

### Lectures

2015 Winter(79)	GEOG 317	Animal Geography
2014 Fall (18)	GEOG 417	Biogeography
2014 Winter (63)	GEOG 317	Animal Geography
2013 Fall (12)	GEOG 517	Conservation GIS (formerly Geog 619)
2013 Winter (76)	GEOG 317	Animal Geography
2012 Fall (20)	GEOG 417	Biogeography
2011 Fall (9)	GEOG 457_619	Intermediate GIS and Spatial Ecology
2011 Fall (63)	GEOG 231	Introduction to Geospatial Methods
2011 Winter (65)	GEOG 231	Introduction to Geospatial Methods
2008 Fall (7)	GEOG 457	Intermediate GIS II
2007 Winter (63)	GEOG 357	Introductory GIS I
2006 Winter (72)	GEOG 357	Introductory GIS I
2004 Fall (30)	GEOG 391	Field Methods in Geography
2004 Fall (45)	GEOG 447	Introductory GIS I
2003 Fall (30)	GEOG 391	Field Methods in Geography
2003 Fall (46)	GEOG 447	Introductory GIS I
2002 Fall (48)	GEOG 447	Introductory GIS I

### **Guest Lectures**

2013 Winter	STAS 421, Publics and Society, Instructor, Dr. Blue
2012 Fall	ENVS 351 Lecture to class – Instructor Dr. Holden
2011 Fall	ENVS 351, Lecture to class October 11 - Instructor Dr. Holden
2006 Spring	ENVS 351, Lecture to class April - Instructor Dr. Norman
2008 Fall	Friday Graduate Seminar Series
2008 Fall	GEOG 231, Lecture to class December – Instructor Dr. Hall-Beyer
2006 Fall	GEOG 507, Lecture to class November 6 – Instructor Dr. Hay
2006 Fall	ENVS 351, Lecture to class October 12 - Instructor Dr. Holden
2006 Winter	GEOG 507, Lecture to class March – Instructor Dr. Hay
2005 Fall	ENVS 351, Lecture to class November 22 - Instructor Dr. Holden
2005 Fall	EVDS 725, Lecture to class November 29 – Instructor Dr. Musiani

### **Other Academic Presentations**

2013	Geography Department, Soup and Slides, January
2012	Faculty of Arts Research Presentations, October
2012	George Mason University, Spatial Analysis Centre of Excellence, October
2010	University of Calgary Vet Medicine Speaker Series, Coyotes in Calgary, February

## 8) PROFESSIONAL ACTIVITY

### Executive and Other Positions

- 2015- Member, Board of Directors, Society for Conservation Biology North America  
2014- Member, Board of Directors, Coyote Watch Canada, Hamilton  
2012- Member, Science Advisory Board, Project Coyote, California  
2003-2011 Member, Environment Grant Selection Committee, Calgary Foundation  
2003-2011 Member, Board of Directors, Miistakis Institute  
2003-2006 Chair, Board of Directors, Miistakis Institute  
2002-2003 Member, Board of Directors, Miistakis Institute  
2001-2004 IUCN-SSC Conservation Breeding Specialist Group

### Reviewer

#### National Funding Institutions

- 2010 *Social Sciences and Humanities Research Council of Canada.*  
Assessment of a proposal submitted to Committee 410-09 in Standard Research Grants  
Competition (File Number: 410-2010-2526)  
2008 *National Science Foundation, USA*  
"Understanding Coupled Human-Nature Complex Systems: A Case Study for Guizhou Golden  
Monkey Conservation (China)"  
2008 *Academy of Science of the Czech Republic*  
"Habitat fragmentation and mammalian predators in a heterogeneous  
landscape: factors determinate their distribution, habitat association and co-occurrence"  
(proposal KJB600870901)

#### Textbooks

- 2007 *Oxford University Press, Canada*  
"Geographical Information Systems: An Introduction". Delaney.

#### Scholarly Publications

- 2015 *Urban Ecosystems*  
"A genet drive-through: Are large spotted genets using urban areas for 'fast food'? A dietary  
analysis."  
UECO-D-14-00085  
2015 *Human Dimensions of Wildlife:*  
"Extreme negative attitudes towards coyotes (*Canis latrans*) in New Brunswick, Canada."  
UHDW-2015-0015  
2014 *Society and Natural Resources*  
"Modeling perceived risk from coyotes among Chicago residents"  
USNR-2014-0005 General Research Article  
2013 *Journal of Canadian Studies*  
"The biopolitical animal in Canadian and Environmental Studies"  
2012 *Ecology and Evolution*  
"Nearing the ecological limit: coyote adaptability produces individualistic space use patterns"  
Manuscript ID: ECE-2012-10-0261  
2012 *Human Dimensions in Wildlife*

- "Attitudes towards predators and conservancies amongst Namibian farmers" Manuscript ID: UHDW-2012-0087
- 2012 *Geocarta*  
"Albertine Rift, anthropogenic impact, GIS, *Lophuromys aquilus*, remote sensing" Manuscript ID: TGEI-2011-0102.R1
- 2011 *Cities and the Environment*  
"Attitudes Towards Coyotes in an Urban Landscape: 1 Management and Public" Special Edition, Urban Predators. Managing Editor, Anne Cummings.
- 2010 *Journal of Wildlife Management*  
"Identifying Habitat Linkages to Maintain Connectivity for Corridor Dwellers in a Fragmented Landscape" by Cameron Barrows, Kathleen Fleming, and Michael Allen [Paper #2009-554]
- 2009 *Professional Geographer*  
"Assessing highway permeability for the restoration of landscape connectivity between protected areas in the Basque Country (N Spain)"
- 2008 *Academy of Science Czech Republic*  
"Habitat fragmentation and mammalian predators in a heterogeneous
- 2008 *Journal of Wildlife Management*  
"Long-Distance Dispersal of a Rescued Wolf from the northern Apennines to the western Alps"
- 2008 *Journal of Environmental Management*  
"Quantifying spatial process of forest fragmentation in the developing State of Selangor, peninsular Malaysia"
- 2008 *Ecography*  
"Spatial risk assessment of livestock exposure to pumas in Patagonia, Argentina"
- 2008 *American Journal of Primatology* "Manuscript No. 071209"
- 2007 *Journal of Environmental Management*, 2007  
Diversity, Seasonality, and 1 Context of Mammalian Roadkills in the Southern Great Plains"
- 2006 *Journal of Wildlife Management*
- 2006 *Journal of Wildlife Management*
- 2003 *Journal of Wildlife Management*
- 2003 *Progress in Planning (PIP)*

### Other Non-Scholarly Reviews

- Feichtenberger, K. 2012. Spanish lynx documentary transcript reviewed for ecological correctness
- Van Tighem, K. 2012. Bow Valley Wolves. Book reviewed for historical and biological accuracy

### Memberships

- 2015- Society for Conservation Biology
- 1999 - 2002 Society for Conservation Biology

### Selected Awards and Recognition in Graduate Program (1995-2001)

- 1999-2001 Province of Alberta Graduate Fellowship, University of Calgary, Geography
- 1998-2000 M. P. Hess Graduate Scholarship, University of Calgary, Geography
- 1999-2001 Biodiversity Fund, U of A and A.C.A, University of Calgary, Geography
- 1999-2000 Alberta Sport, Recreation, Parks and Wildlife, U of C, Geography
- 1998-1999 Graduate Thesis Research Scholarship, University of Calgary, Geography
- 1997-2000 University of Calgary Fee Scholarship, University of Calgary, Geography
- 1997-1999 N.S.E.R.C. - PGS-B Scholarship, University of Calgary, Geography
- 1996-1997 M. P. Hess Graduate Scholarship, University of Calgary, Geography
- 1996-1997 Alberta Sport, Recreation, Parks, and Wildlife, U of C, Geography

## Consulting/Technical Work Experience (1992-1997)

- July 1993 – Environmental Resource/Wildlife Research Consultant. Peter Lougheed Provincial  
March 1995. Park (PLPP), Kananaskis, AB. S. Donelon (403)678-5508. GIS technical support,  
Environmental Impact Assessment of skier snow compaction, tracking collared  
wolves.
- May – July Wildlife Technician. McCallum/Paquet Environmental Consulting Ltd., Canmore,  
1993-1997 AB. P. Paquet (306)376-2015. Recurrent seasonal contracts. Surveyed fixed  
transects for summer/winter pellets (deer, elk, moose, sheep), classified  
vegetation, indexed browse intensity; also, GIS and database work.
- Oct. 1992 – Environmental Research Technician. John/Paul and Associates, Canmore, AB. P.  
Apr. 1993 Paquet (306)376-2015. World Wildlife Fund, Canada. Cataloguing wildlife-habitat  
datasets, landuse management and integrated resource plans for the International  
Rocky Mountain ecosystem (Alberta, BC, Montana, Idaho).
- Sept.-Oct. Research Technician. John/Paul and Assoc., Canmore, AB. (306)376-2015.  
1992 Database design, data entry and habitat mapping, Canmore.
- Mar.–Oct. Research Consultant. Banff National Park Warden Service, Banff, AB. C. White  
1992 (403)762-1470. Aspen ecosite analysis, field technician.
- May–Aug. Volunteer Wildlife Research Assistant. Dalhousie University, Animal Behavior  
1992 Research Station. J. Ryon (903)758-3503. Feeding, densite monitoring and in-den  
filming of captive wolves; care, hand rearing and filming play ontogeny of coyote  
pups. Researched non-lethal methods for coyote-livestock depredation.
- Dec. 1991 – Wolf Project Research Coordinator. John/Paul and Associates, Canmore, AB.  
May. 1992 (306)376-2015. Daily ground telemetry, aerial surveys (approximately 60 hours  
flight time), scheduled staff field work, maintained databases.

## Professional Workshops and Training

- 2001 *IUCN-CBSG Parrot Conservation Workshop*. Presented probability-based habitat  
effectiveness model for Mexican parrots (*Ara macao*). Africam Safari Zoo. Puebla,  
Mexico. Dec. 11-15.
- 2001 *IUCN-CBSG Disease Risk Workshop*. Prepared and presented a probability-based  
spatial model of disease risk for Ugandan Gorillas. Jacksonville Florida. June 28-  
July1.
- 2001 *GIS-PVA Biocomplexity Workshop II*. A Collaborative workshop between Colby College  
(Waterville, Maine), McGill University (Montreal, QB) and the IUCN-CBSG.  
Jacksonville, Florida, USA. June 23-26.
- 2001 International Training Centre, **Durrell Wildlife Training Centre**. *Population Habitat  
Viability Assessment Facilitation Skills Training Workshop*. IUCN-CBSG Sponsored.  
Jersey Island, UK. May 6-12.
- 2001 *GIS-PVA Biocomplexity Workshop*. A Collaborative Workshop between Colby College  
(Waterville, Maine), McGill University (Montreal, QB) and the IUCN-CBSG. Presented  
decision support applications and GIS. Waterville, Maine, USA. January 4-8.

## 9) RETURN TO COMMUNITY

### Executive and Other Positions

2003-2011 Grant Selection Committee, Calgary Foundation, Alberta  
2001-present Collaborator, Conservation Science Centre, Calgary Zoo

### Public Presentations

2015 Glenbow Ranch Provincial Park. Coyote Nature Walk. Cochrane, AB. Aug. 12  
2015 Bow Valley Wildsmart Speaker Series, Coyotes in Crosshairs. Canmore, AB, Apr 14  
2015 Jane's Walk, Nose Hill, Song Dogs in the City. Calgary, AB, May 6  
2015 Knights of the Round Table, Finding Coyote. Calgary, AB, Feb  
2015 Tuscany Middle School, Grade 4 classes, Living with Coyotes, Feb 12  
2015 Glenbow Ranch Provincial Park, Finding Coyote. Cochrane AB, Jan 23  
2014 Nose Hill (Friends) Society, Living with Coyotes. Calgary, AB, April  
2014 Glenbow Ranch Provincial Park, Coyote Nature Walk. Cochrane AB, July 16  
2014 Glenbow Ranch Provincial Park, Coyote Nature Walk. Cochrane AB, Aug 6  
2014 Jane's Walk, Nose Hill, Song Dogs in the City. Calgary, AB, June 4  
2013 Glenbow Ranch Provincial Park, Coyote Nature Walk. Cochrane, AB June 12  
2012 Terra Magica Gallery, Canmore, Conserving Painted Dogs in Zimbabwe. AB June 2  
2010 Nature Calgary Speaker Series. Living with Coyotes. Calgary, Oct. 20  
2010 Bow Valley Speaker Series. Coyotes: They are what the Eat. February  
2007 CPAWS – Highway Fragmentation Studies in Alberta and Mexico  
2001 Bow Valley Naturalists Monthly Meeting. Restoring Landscape Connectivity in Road  
Fragmented Environments. Banff, AB. April 28.  
2000 Central Rockies Wolf Project. A DSS for Selecting Focal Carnivores. Canmore, AB.  
June 17.  
2000 Wildlife Mortality Workshop, Superintendent's Office. A Spatial Analysis of Highway  
Fragmentation Effects on Multi-Species. Banff, AB. March.  
1998 Wildlife-Transportation Workshop - Banff National Park Managers and Public Invitees.  
Analyzing Mitigation Requirements for Multiple Species in the Bow Valley, Banff  
National Park. Banff, AB. February 8.  
1998 Forest Carnivore Society Conference. Highway Fragmentation Effects in the Bow  
Valley. Canmore, AB. June 15.  
1998 Bow Cumulative Effects Committee. Highway Fragmentation Effects on Wildlife in the  
Bow Valley. Banff, AB. October 5.

### Media Contributions

#### *Television Interview/Broadcasts*

2015 CBC and CTV News  
2012 Global Television, Coyotes in Calgary  
2012 Radio interview, Coyotes in Saskatchewan  
2010 CBC Television, CTV television, Global National. Living with Coyotes Website  
2009 CBC Television, CTV television, Global National. Urban Coyote Ecology, Conflict and Diet  
2006 CBC Television (Canada Now), CFCN Television, A-Channel, Global TV (Calgary), Shaw  
Television - Urban Coyote Project  
2004 Alberta Ce Soir (CBC French television news), CBC Television (Canada Now), CFCN  
Television, CITV television (Edmonton), Global Television, Shaw Television

### *Radio Interviews/Broadcasts*

- 2015 Parks Canada radio interview (repeat programming in Banff)
- 2014 CBC news, home stretch.
- 2010 CBC home stretch, QR77 afternoon, QR77 morning show, 103.1 XL: Living with Coyotes
- 2009 QR77, CBC morning. Urban Coyote Ecology, Conflict and Diet
- 2004 Highways and Wildlife. Film sponsored by Canadian Parks and Wilderness Society
- 2003 Calgary Homestretch, CBC radio (Yellowknife), CBC radio news (Calgary), CBC radio news (Edmonton), CFMG-FM (St. Albert), CFYM radio (Kindersley), CJXX-FM (Grande Prairie), QR77 (Afternoon with Dave Taylor), QR77 news.
- 2001 Expert interview "Think Big". Film Sponsored by Friends of Kananaskis.

### *Newspaper Interviews*

- 2015 Rocky Mountain Outlook; Banff Crag & Canyon : Coyotes in the Crosshairs
- 2015 Globe and Mail;
- 2014 Calgary Herald
- 2013 Chicago Tribune
- 2013 Calgary Herald, YYCoyote – Special insert
- 2010 Calgary Herald, Calgary Sun, Multiple on-line media.
- 2009 Calgary Herald, Urban Coyote Ecology Research Findings Calgary
- 2007 Expert opinion on court ruling of first human killed by a wolf in Canada
- 2006 Calgary Herald, CBC on-line – multiple interviews regarding coyote conflict.
- 2005 Alberta Views, interviewed by author Ben Gadd for publication "The Meatmaker: Life and Death on the Banff Highway. AlbertaViews, March 2005.
- 2003 New York Times – Canada Correspondent Clifford Krauss (New York), Calgary Herald x 2 (Calgary), Banff Crag and Canyon (Banff), Canmore Leader (Canmore), FastForward Magazine – FFW (Calgary), Rocky Mountain Outlook (Canmore)

## **10) OTHER ACCOMPLISHMENTS**

- 2010 Equitation. 3<sup>rd</sup> Place for Best Mounted Ride at Calgary Stampede, Spanish Andalusian.
- 2007 Equitation. Horse: Don Tenorio. Rider/Owner: S. Alexander. 6<sup>th</sup> Place Ribbon, Show in hand, Andalusian/Half Andalusian Horse Exhibition
- 2006 Equitation. Horse: Don Tenorio. Rider/Owner: S. Alexander. 5<sup>th</sup> Place Ribbon, Show in-hand, Andalusian/Half Andalusian Horse Exhibition
- 1994 Mountaineering Expedition Co-Manager, Hinku-Chuli, Nepal. Co-organized a 6 person expedition to climb Mera Peak and Hinku Chuli Peak in the Hinku Valley Region of Nepal. Travelled on foot in remote wilderness areas with team members and supervised 18 porters - expedition duration 34 days (335 km).