



# Behavioural Ecology in the Lingle Lab

We investigate predator-prey interactions with a focus on cooperation and parental care in prey. Our unique observations of coyote packs hunting deer, made on the prairie grasslands of western Canada,



Cora Anne Romanow, in the field

have led to breakthroughs in understanding how prey behaviour shapes predator hunting success. These results are important for wildlife conservation and management, for we identify habitat and social traits that are critical for the survival of prey populations.



We investigate newborn cries and adult responses to these cries by examining a variety of species from birds to mule deer to humans. Our results are revealing that a response to infant cues of a different species is not uniquely human, but may be the result of sensory mechanisms shared across mammals. Our research can assist in identifying health benefits for humans and other species.

## Support Our Students!

"The past two summers I have had the good fortune of being invited to work for Dr Susan Lingle at her field site at the McIntyre ranch...I have grown to respect nature in a way I could not have fathomed...I have enjoyed the company of Richardson's ground squirrels, owls, pronghorn, coyotes, bats, and even an unexpected grizzly bear mother with two cubs...the site offers the chance to observe and conduct experiments with animals in their natural environment...I look forward to many more years of opportunity on the ranch."

~ Cora Anne Romanow, UWinnipeg undergrad, Lingle Lab Research Student 2011, 2012, & 2013

**Federal funding is changing and we are now challenged in finding financial support for our research students.**

Every summer our Lab supports at least three full-time research students. Since its inception in 2009, the Lingle Lab has fostered twelve students total, each one going on to continue their research careers either by pursuing higher degrees or by obtaining jobs in resource management. We hire other students for shorter-term placements and technicians to work on particular projects.

Students are trained in behavioural observations, censuses of animal populations, radio-telemetry, acoustic analysis, playback techniques, Geographic Information Systems (GIS) and advanced statistics. Data gathered are presented in Honours or Master's Theses, in peer-reviewed publications and in conference presentations

**This research experience is critical for these students to achieve their academic and career goals.**

## Give to Conservation Research

1) We need **\$28,000** per year, for 2013/14 through 2015/16, to cover the costs of training undergraduate research students and stipends for graduate students.



2) We also require **\$10,000** to cover costs of research in 2013-14 and **\$25,000** per year for 2014-15 and 2015-16. This covers the purchase and operation of equipment used in lab and field experiments.



Total Request: **\$144,000** -OR- 2013-14: **\$38,000**; 2014-15 and 2015-16: **\$53,000/each year**.

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