Gombe Map – www.janegoodall.org

Research Interests:

Past Research:

x PR – Gastropod survey

Mentors: Dr. Michael Willig and Brian Klinbeil

During the summer of 2013, I spent three weeks in the Luquillo Experimental Forest of El Yunque National Forest in Puerto Rico. Here I surveyed gastropod communities and conducted gastropod habitat analyses.

x UMD – Minnesota moose

Mentor: Dr. Ron Moen

Before returning to graduate school, I worked with Dr. Ron Moen on a range of projects, most prominently an ongoing study of Minnesota *Alces alces* (moose) and their recent population decline. I analyzed the movement of collared *A. alces* who died earlier than would be expected due to natural causes. My work included participation in *A. alces* necropsies and comparisons of pre-death movements and cause of death.

More Information:

http://www.nrri.umn.edu/moose/

http://www.d.umn.edu/unirel/homepage/11/moose.html

x Bolivia – Bolivian Gray Titi Monkey behavior

Mentor: Kimberly Dingess

After leaving Chicago, I spent my first three months in Santa Cruz de la Sierra Bolivia studying the behavior and habitat of *Callicebus donacophilus* (Bolivian Gray Titi Monkeys). *Callicebus donacophilus* is a monogamous species in which the male and female both participate amply in parental care. I recorded various behaviors (including vocalization, grooming, and tail-twining, among others) of one wild *C. donacophilus* family and enjoying watching the growth of a tiny monkey baby. Before leaving, I helped to verify *C. donacophilus* food consumption through identification of seeds and insects present in fecal samples.

More Information:

http://tititales.blogspot.com/

x LPZ – Chimpanzee health and Ethosearch

Mentor: Dr. Elizabeth Lonsdorf

During the spring and summer of 2011, I worked with with Dr. Elizabeth Lonsdorf at the Lincoln Park Zoo in Chicago, Illinois. My main focus was a series of outbreak investigations of illnesses that have affected *Pan troglodytes* (chimpanzees) in the Kasekela community of Gombe National Park, Tanzania. I then compared the results to Simian Immunodeficiency Virus (SIV) status of individual *P. troglodytes* in order to gauge the relationship between length and severity of illness and SIV status.

Here I also had the opportunity to work on the Ethosearch database (www.ethosearch.org), finding published ethograms and entering them into the database.

More Information:

www.ethosearch.org

http://www.janegoodall.org/media/news/gombe-research-continues-break-ground-nearly-50-years-later

x LUC – Stream ecosystem contaminants

Mentors: Dr. Nancy Tuchman, Lane Vail, and Dr. Pam Geddes

As an undergraduate, I worked on three distinct projects. The first was a genetic analysis of native, invasive, and hybrid cattail species (*Typha latifolia, T. angustifolia, and T. x glauca*). The second utilized Loyola’s artificial stream systems in a Clean Air Clean Water study as I surveyed stream components and compared their status to the presence and levels of the antibiotic azithromycin in streams. My third project included assistance in developing and implementing a study examining the effects of Bisphenol-A (BPA) on the reproduction and sexual dimorphism of *Hyalella azteca*. This project also included a study of BPA degradation in an artificial stream setting.

More Information:

http://www.luc.edu/sustainability/research/pastprojects/

x UMBS – Wetland invasives and sustainable restoration

Mentors: Dr. Nancy Tuchman and Shane Lishawa

During the summer of 2010, I lived at the University of Michigan Biological Station as I studied how the presence of hybrid cattail *T. x glauca* is related to methane emissions in wetlands. I also created small-scale biodigestion chambers to test the possibility of using *T. x glauca* litter as a sustainable source of methane biogas energy.

More Information:

http://www.luc.edu/sustainability/research/currentprojects/invasivestoenergy/

http://www.luc.edu/sustainability/research/pastprojects/

x Field – Coevolution of bats and bat ectoparasites and bat skull morphometrics

Mentors: Dr. Bruce Patterson and Dr. Carl Dick

For the summer of 2009, I participated in two projects involving bat evolution at the Field Museum of Natural History in Chicago, Illinois. My first project examined the coevolution of bats and their species-specific bat fly ectoparasites. I compared bat fly eye complexity to the roosting habitats of their host species to see if those bats that roost in darker, more permanent structures house bat flies with the common troglodytic feature of reduced eye complexity. Here I also used both traditional and geometric morphometrics to examine the skull size and shape of bats within the genus *Sturnira*. This project worked towards clarification of speciation characteristics within this genus.

More Information:

http://fieldmuseum.org/about/vampires-vampires-coevolution-bats-and-bat-flies

http://fieldmuseum.org/sites/default/files/reu\_symposium\_2009.pdf