

JENNIFER A. FELTNER

CONTACT

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Research Group: www.umt.edu/research/millslab

EDUCATION

University of Montana, Missoula MT

PhD Candidate, Wildlife Biology, August 2016 – present. GPA: 4.0/4.0

- Dissertation research: Intraguild competition and predator-prey dynamics following large carnivore recovery
- Other projects: Global phenology distribution of coat-color changing mammal species; Population status and management of wolves in Scandinavia
- Began at NC State University 2014-2016; moved with advisor to UM

San Diego State University and University of California, Davis, San Diego and Davis CA

Graduate coursework, Ecology, Aug 2013-Aug 2014. GPA: 3.94/4.0

- Completed coursework in population, community, ecosystem, and conservation ecology and biostatistics
- Conducted research on the habitat use, abundance and diversity of large mammals in Guizhou, China

Colorado State University, Fort Collins CO

Post-Bac. coursework, Wildlife and Conservation Biology, Jan 2011 - May 2012. GPA: 4.0/4.0.

- Completed coursework in zoology, botany, chemistry, physics, calculus, statistics, mammalogy, ecology, GIS/remote sensing, advanced methods in quantitative and spatial analysis and wildlife osteology/forensics
- Dean's List, Warner School of Natural Resources, 2011-2012
- Conservation Committee Chair, Student Chapter, Society for Conservation Biology

Dartmouth College, Hanover NH

B.A., Chinese Language and Literature (Cum Laude), June 2001. GPA: 3.52/4.0

GRANTS AND AWARDS

2016	Wild Felid Legacy Scholarship, Wild Felid Research and Management Association (\$1000)
2014	Harold & June Grant Memorial Scholarship, San Diego State University (\$1000)
2014	National Science Foundation Graduate Research Fellowship (\$138,000)
2014	San Diego State University Doctoral Research Grant (\$900)
2012	Text Book Award for Academic Potential, Colorado State University (\$400)
2000	Dickey International Internship Award, Dartmouth College (\$3000)
2000	Presidential Research Scholarship, Dartmouth College (\$1500)
1998	Alfred P. Jenks Scholarship for Academic Achievement, Dartmouth College (\$2000)

RESEARCH AND FIELD EXPERIENCE

Teton Cougar Project, Panthera, Kelly, WY

Graduate Researcher (June 2015-present) Supervisor: Dr. L. Mark Elbroch

- Track cougars (*Puma concolor*) using satellite and radio telemetry and snow tracking; conduct investigations of cougar bed and kill sites, determine cougar displacement from kills by other large carnivores using sign or remote cameras; enter and manage spatial, predation and cougar population data using Access and ArcGIS
- Assist with cougar capture, immobilization and collaring
- Aid project manager and field team with all aspects of running the project

Mammals Research Program, Colorado Parks and Wildlife, Fort Collins CO

Technician (Apr – Aug 2013; May - Oct 2012) Supervisors: Dr. Dan Walsh, Dr. Eric Bergman, Dr. Mat Alldredge

- Tracked bighorn sheep (*Ovis canadensis*) using radio telemetry; recorded observations, monitored health of lambs, investigated mortalities and performed field necropsies; entered and managed tabular and spatial data
- Conducted predator surveys using camera traps, calls and direct observations
- Aided in design of predator survey protocols; conducted research on use of remote sensing data in wildlife habitat analysis; downloaded and processed LANDSAT imagery; documented effects of wildfires on sheep and study area

Work-study Technician (July 2011- Apr 2012) Supervisor: Dr. Mat Alldredge

- Entered and managed tabular and spatial data using Access, Excel and ArcGIS for studies on the ecology and management of mountain lions, black bears (*Ursus americanus*) and lynx (*Lynx canadensis*)
- Identified species from camera trap images; collected and processed tissue samples for stable isotope, genetic and disease analysis; assisted in lion and bear captures, kill-site investigations and camera trap set up
- Conducted research on relocation as a management tool for problem lions, lion resource selection and habitat suitability modeling; produced initial spatial model for potential relocation sites using ArcGIS

Institute for Conservation Research, San Diego Zoo, Sierra Juarez, Baja California, Mexico/Escondido CA

Field and Lab Assistant (Mar – Apr 2013) Supervisors: Dr. Mathias Tobler, Dr. Lisa Nordstrom

- Documented presence and travel corridors for Peninsular desert bighorn sheep (*Ovis canadensis nelsoni*) and mountain lions using camera traps and ground surveys; prepared scat samples for PCR and DNA extraction

Colorado State University, Fort Collins CO

Field Technician (Aug 2011- Apr 2012) Supervisors: Dr. Kevin Crooks, Ashley Gramza – Ph.D. student

- Checked, repaired and installed camera traps for wildlife disease study of mountain lions, bobcats (*Lynx rufus*) and domestic cats (*Felis catus*); downloaded photos, managed and updated databases and schedules

Lab Assistant (May - Aug 2011) Supervisors: Dr. Chris Funk, Staci Amburgey – M.S. student

- Performed daily care of animals in frog lab; aided in nocturnal fieldwork and capture of specimens for speciation study of chorus frogs (*Pseudacris maculata*)

Fundación Omacha, Vichada, Colombia

Volunteer Research Assistant (June 2009 – Jan 2011; two months onsite) Supervisor: Dr. Fernando Trujillo

- Designed and implemented mammal monitoring survey using camera traps; conducted line transect surveys of river dolphins (*Inia geoffrensis*); aided visiting biologists with field inventories of herpetofauna, fish, birds and plants
- Assisted in behavioral study, rehabilitation and care of juvenile jaguar (*Panthera onca*) prior to soft release in El Tuparro National Park; captured prey species and collected prey scat for pre-release conditioning process
- Led and supported environmental education programs for local children in Puerto Carreño
- Provided remote assistance on research for anti-wildlife trafficking campaign, felid reintroductions and human-wildlife conflict and editing and translation of scientific reports and online content

Centre for Marine Studies, Utila, Honduras

Volunteer Research Diver (Mar – Apr 2009) Supervisor: Dr. Stephen Box

- Attended week-long course on tropical marine ecology and field techniques; conducted dive surveys evaluating population dynamics, distribution and health of reef fish, invertebrates, corals, dolphins and whale sharks (*Rhincodon typus*); monitored spawning aggregations of groupers
- Assisted in community education and awareness initiatives with local dive shops, tourists and residents

University of Arizona (UA), The Nature Conservancy (TNC), Bureau of Land Management (BLM), Northern Jaguar Project (NJP), Sky Island Alliance (SIA), Southern Arizona/Northern Sonora, Mexico

Volunteer Research Assistant (Sept 2008 – Mar 2009) Supervisors: Lisa Haynes (UA); Ken Wiley (TNC); Jim Mahoney (BLM); Diana Hadley (NJP); Janice Przybyl (SIA)

- Conducted fieldwork for several occupancy, movement and diet studies of mountain lions, bobcats, ocelots and jaguars using camera traps and other noninvasive data collection techniques
- Led a large scale land survey project in San Pedro National Riparian Conservation Area to document breaks and human-caused damage to area boundaries with support from BLM and TNC
- Assisted organizations and researchers on various projects through grant writing, research, ecological monitoring, data analysis, event planning, writing/editing and capacity building support
- Completed Sky Island Alliance's 5-day Wildlife Tracking Workshop

PUBLICATIONS

Mills, L.S., E. Bragina, A.V. Kumar, M. Zimova, D.J.R. Lafferty, **J.A. Feltner**, B. Davis, K. Hackländer, P.C. Alves, J.M. Good, J. Melo-Ferreira, A. Deitz, A.V. Abramov, N. Lopatina, and K. Fay. 2018. Winter coat color polymorphisms identify global regions of active climate mediated evolution. *Science*. DOI: 10.1126/science.aan8097.

Elbroch, L.M., **J.A. Feltner**, and H. Quigley. 2017. Human-carnivore competition for antlered ungulates: Do pumas select for bulls and bucks? *Wildlife Research* 44(6-7):523-533.

Feltner, J.A. 2017. Intraguild competition following wolf and grizzly bear recovery in the southern Greater Yellowstone Ecosystem: Assessing impacts to cougars. *The Wild Felid Monitor* 10(2):18.

Elbroch, L.M., **J.A. Feltner**, and H. Quigley. 2017. Stage-dependent puma predation on dangerous prey. *Journal of Zoology*. DOI:10.1111/jzo.12442.

Mills, L.S. and **J.A. Feltner**. 2015. An updated synthesis on appropriate science-based criteria for “favorable reference population” of the Scandinavian wolf (*Canis lupus*) population. Pages 116-152 in Interim report of the government commission to investigate the favorable reference population of wolves. Swedish Environmental Protection Agency, Stockholm, Sweden.

PRESENTATIONS

Feltner, J.A. March 2017. Intraguild competition and predator-prey dynamics following large carnivore recovery. WILD 594: Graduate Seminar in Wildlife Biology, University of Montana, Missoula, MT.

Mills, L.S. and Feltner, J.A. August 2015. An updated synthesis on appropriate science-based criteria for “favorable reference population” of the Scandinavian wolf (*Canis lupus*) population. Swedish Environmental Protection Agency, Stockholm, Sweden.

Feltner, J.A. October 2014. Wildlife biology and conservation in a globalized world. Dartmouth College on location: A Dartmouth day at the zoo, San Diego Zoo Safari Park, Escondido, CA.

Feltner, J.A. May 2014. Linking human activities and conservation policy to large mammal and bird diversity and distribution in Fanjingshan National Nature Reserve, Guizhou, China. K-12 Teacher Training Workshop, San Diego State University, San Diego, CA.

Feltner, J.A. April 2014. Collaborative conservation – linking vegetation condition, human activities and management policies to monkey habitat use. Association of American Geographers Annual Meeting, Tampa FL.

Feltner, J.A. and R. Lewison. June 2013. Conservation ecology and the Guizhou snub-nosed monkey. K-12 Teacher Training Workshop, San Diego State University, San Diego, CA.

RELEVANT SKILLS AND ACTIVITIES

Computer: R, ArcGIS, ERDAS Imagine, JAGS, MARK, DISTANCE, PRESENCE, Microsoft Office (Excel, Word, Powerpoint, Access), Website design/management

Field/Outdoor Skills:

- Wildlife monitoring: Camera-traps, radio telemetry, electronic calling, VHS/satellite tracking, line transect surveys
- Wilderness navigation and survival; use of GPS and compass
- Large/small mammal tracking, sign, bone ID
- Large/small mammal capture, immobilization, handling, marking (collars, PIT tags)
- Mortality investigations, basic necropsy and tissue sample collection
- Use of 4WD vehicles and snowmobiles, off-road driving
- Use of binoculars, scope, rangefinder, still and video cameras
- Use of handgun, rifle, shotgun, dart gun
- Use of machete, saws, axes, hand tools
- Basic construction
- Animal husbandry
- Taxidermy; skin and skeletal preparation
- Certified PADI Advanced Open Water Diver
- Fishing
- Lifelong backcountry traveler and hiker

Professional Memberships: Society for Conservation Biology (2010-present), The Wildlife Society (2012 – present), The Wildlife Society Wyoming Chapter (2015-present), Wild Felid Research and Management Association (2016-present)

Reviewer: Mammal Review

Languages: Advanced Mandarin Chinese, Intermediate Spanish, Basic Portuguese

International Work and Study: Brazil (Mato Grosso), China (Beijing, Shanghai, Tibet, Xinjiang, Inner Mongolia, Guangdong, Fujian, Sichuan, Qinghai, Zhejiang, Guizhu, Hunan), Colombia (Vichada, Bogota), Honduras (Utila, La Ceiba), Japan (Tokyo), Mexico (Baja California, Sonora, Guanajuato), Peru (Amazonas) and Sweden.

OTHER RELEVANT PROFESSIONAL EXPERIENCE

PricewaterhouseCoopers LLP, Boston MA

Learning & Development Implementation Team Member (2008, 2010) Supervisor: Andrea Watson

- Ensured successful implementation of learning programs on firm-wide topics in the Northeast with a focus on project management support and on-site implementation; trained and supervised new team members

St. Rose Outreach and Recovery (SOAR), Bay St. Louis MS

Volunteer Coordinator /AmeriCorps VISTA Member (2006 - 2007) Supervisor: Sebastian Myladiyil, SVD

- Recruited, trained, supervised and managed over 750 short and long-term volunteers for relief center dedicated to rebuilding affordable housing for victims of Hurricane Katrina; created all organizational systems and administrative infrastructure related to volunteer, housing and reservation management
- Member of four person leadership team: Developed vision, mission and long term goals; recruited and hired new staff; resolved major operational problems; maintained relationships with advisory board and other relief organizations; organized monthly lecture series and other events for volunteers and community members
- Performed construction work including plumbing, roofing, drywall, electrical, framing and painting

Georgetown University School of Foreign Service, Washington DC

Event Coordinator /Administrative Assistant to Dean (2004-2006) Supervisor: Dr. Robert Gallucci

Provided administrative support including research, media coordination, technical support, database and budget management; acted as a liaison to internal and external constituencies; planned and managed physical, logistical, financial and protocol details for all Dean's Office events

Center for Strategic and International Studies, Washington DC

Freeman Chair in China Studies Intern (Fall 2003) Supervisor: Dr. Bates Gill

- Aided scholars and research associates in conducting research; produced reports related to China and East Asia in the policy, security and business arenas; supported policy experts at conferences and diplomatic meetings; carried out independent research project on Chinese domestic policies in Xinjiang province

U.S. & Foreign Commercial Service, Shanghai, China

Special Assistant to the Consul /Intern (Summer 2000) Supervisor: William Lawton

- Conducted research and wrote several substantial industry sector and market analysis reports on shipbuilding, ports and off-shore oil in China; aided local staff in editing and translation of reports and documents

Patrick English Network, Beijing, China

Head Teacher (Fall 1998) Supervisor: Patrick Chang

- Led month-long English language and American culture study programs for Chinese businessmen and women and government officials; taught English to children and teenagers on weekends

Community Service

- *Hurricane Katrina Task Force Onsite Team Volunteer/Social Justice Volunteer*, Holy Trinity Catholic Church, Washington DC (2005-2006)
- *Special Events Volunteer*, The International Ecotourism Society, Washington DC (2006)
- *Volunteer English Tutor to visiting scholars from China's Foreign Ministry*, Georgetown University, Institute for the Study of Diplomacy, Washington DC (2004)
- *Grasslands Restoration Volunteer*, Beijing Normal University, Inner Mongolia, China (1998)
- *Volunteer Trail Crew Member*, Appalachian Mountain Club, Camp Dodge, Gorham NH (1995-1996)