

Joseph Ceradini
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EDUCATION

M.S. Zoology (Coop Research Unit): fall 2012 – fall 2015 (expected graduation)

University of Wyoming, Cooperative Fish and Wildlife Research Unit, Zoology and Physiology
Dept., Laramie, Wyoming

Advisor: Dr. Anna Chalfoun

Thesis: Demographic and habitat selection patterns of small mammals in cheatgrass vs. native
plant communities

B.A. Environmental Science; B.A. Philosophy: 2003 – 2008

State University of New York (SUNY), Plattsburgh

TEACHING

Teaching Assistant

- Statistical methods in biology (3 credit graduate course, fall 2015)
- Fundamentals of statistics (4 credit undergraduate course, fall 2015)
- Mammalogy (3 credit undergraduate course, fall 2013)

Co-teacher

- Program R for beginners (upcoming workshop: 2015 WY TWS conference)

WORK AND RESEARCH EXPERIENCE

Master's Thesis: fall 2012 – fall 2015 (expected graduation)

University of Wyoming, Laramie, WY and Thunder Basin National Grassland, WY

- Study design and literature review
- Collaborate with WY Game and Fish Dept., U.S. Forest Service and private land-owners
- Project management: budget, hiring, permitting, field logistics and personnel management
- Live small mammal trapping and tracking; vegetation surveys
- Data analysis: mark-recapture (abundance and survival), occupancy, habitat selection (regression and spatial analysis) and foraging patterns (regression)
- Writing and report preparation

Wildlife Crew Leader: May – August 2012

U.S. Forest Service and Wyoming Game and Fish Department, throughout Wyoming

Research relationship between ferruginous hawks and energy development in Wyoming

- Ferruginous hawk trapping crew lead
- Trap hawks and attach GPS transmitters and leg bands
- Handle adults, chicks and lure bird (great-horned owl)
- Prey transect surveys

Lynx Crew Leader / Technician: winter – spring, 2010 – 2012

University of Montana and U.S. Forest Service, throughout Colorado

Research relationship between Canada lynx and winter recreation in Colorado

- Trap lynx (live box traps)
- Attach GPS collars and assist veterinarian with immobilization and monitoring vitals
- Assess lynx habitat; track surveys
- Radio telemetry
- Winter backcountry travel on skies, snowshoes and snowmobiles

Wildlife Technician: April – September 2011

Colorado State University's Center for Environmental Management of Military Lands
Donnelly Training Area, Delta Junction, Alaska

- Wildlife surveys: sharp-tailed grouse, ruffed grouse, willow ptarmigan, waterfowl, raptors, whimbrel, Dall sheep, dragonfly and wood frog
- Songbird point counts; waterfowl identification
- Sharp-tailed grouse habitat surveys
- Game cameras

Wildlife Technician: June – October 2010

Bureau of Land Management, San Juan Public Lands, Southwest Colorado

- Wildlife surveys: northern goshawk, peregrine falcon, osprey, owl, white-tailed ptarmigan, bat and Rocky Mountain bighorn sheep
- White-tailed ptarmigan habitat mapping
- Tree snag density survey; photo point; game cameras

Forestry Technician: May – November 2009

Sustainable Forestry Crew, Southwest Conservations Corps, Durango, Colorado

- Chainsaw thinning to reduce fire risk
- Trail building

Volunteer Naturalist: January – March, 2009 – 2010 (part time)

Durango Nature Studies, Durango, Colorado

- Led 4th – 8th grade students on hikes while educating on local flora and fauna

Small Mammal Technician: May – November 2008

Cary Institute of Ecosystem Studies, Millbrook, NY

- Daily live small mammal trapping (mark-recapture)
- Tree seedling census; vegetation surveys
- Direct immune-fluorescence assays to identify *Borrelia burgdorferi* (Lyme disease)

Undergraduate Researcher: fall 2007 (part time)

State University of New York, Plattsburgh

Long-term Impact of an Ice Storm and Restoration Cutting in a Rare Pine Barren

- Recovery assessment of ice-storm damaged trees, 10 years after disturbance
- Comparison of tree regeneration in managed vs. un-managed stands

Data Management Technician: November 2006 ~ April 2008 (part time)

NY State Department of Environmental Conservation, Ray Brook, NY

Division of Solid & Hazardous Materials

- Management and evaluation of groundwater monitoring data

- Incorporated into broader study on capping unlined landfills to reduce leachate emissions

SKILLS AND TRAINING

Research

- Software: Program R, MARK, PRESENCE, ArcMap, SAS, SigmaPlot, TerraSync (Trimble) and Microsoft Office Suite
- Data analysis: mark-recapture (abundance and survival), occupancy, regression (linear, non-linear and mixed models), re-sampling and spatial analysis
- Program MARK workshop, South Dakota State University (3/2013)

Field Work

- Project management
- Wildlife surveys: visual and auditory identification, resighting, nest observation, songbird and mammal point counts, playback, game cameras and track surveys
- Wildlife trapping and husbandry: live-handling and immobilization
- Vegetation surveys: line-point intercept, quadrat and site assessment
- GPS, Trimble and compass/map navigation
- GPS collars (including software set-up) and radio telemetry
- First aid: certified *Wilderness First Responder* since 2008
- Avalanche level 1 (AIARE), winter 2011; avalanche rescue training (USFS), winter 2012
- S130/190 firefighter training and wildland fire behavior (Colorado Fire Camp, 11/2009)
- S212 chainsaw operation training equivalent (Southwest Conservations Corps, 5/2009)
- USFWS southwest willow flycatcher survey training, Albuquerque, NM (4/2009)

AWARDS AND ACHIEVEMENTS

- Graduate Research Assistantship, Zoology and Physiology Dept., Univ. of WY (fall 2012 – 2015): \$17,000/year
- Teaching Assistantship, Statistics Dept., Univ. of WY (fall 2015): \$9,500
- Wyoming Governor's Big Game License Coalition Grant (spring 2015): \$7,605
- Teaching Assistantship, Zoology and Physiology Dept., Univ. of WY (fall 2013): \$8,500
- L. Floyd Clarke Graduate Scholar Award, Univ. of WY (2012): \$500
- Fitzpatrick Scholarship in Environmental Science, SUNY Plattsburgh (2007): \$1000
- Winkel Humanities Scholarship in Philosophy, SUNY Plattsburgh (2007): \$500
- Global Scholars Scholarship, SUNY Plattsburgh (2006): \$500
- Graduated Magna Cum Laude, SUNY Plattsburgh
- 18 credit, intensive Italian language program in Florence, Italy

PUBLICATIONS AND PRESENTATIONS

- The effects of cheatgrass differ for generalist and specialist small mammals. **Ceradini, Joseph**, Chalfoun Anna. National Wildlife Society Meeting, Winnipeg, Manitoba. *To be presented fall 2015.*
- Do generalist small mammals benefit from cheatgrass invasion? **Ceradini, Joseph**, Chalfoun, Anna. 2014 National Wildlife Society Meeting, Pittsburgh, PA.
- Demographic and habitat selection patterns of small mammals in native and non-native grassland. **Ceradini, Joseph**, Chalfoun, Anna. 2013 WY Wildlife Society Meeting, Rock Springs, WY.
- The influence of non-native grasses on grassland small mammals and a test of competitive constraints on habitat selection. **Ceradini, Joseph**, Chalfoun, Anna. 2012 WY Wildlife Society Meeting, Laramie, WY.

- **Ceradini, J.P.**, C. Dame, B. Glidden, D. Hays, C. Livensperger, R. Schiesser, K. Adams. 2008. Long-term impact of an ice storm and restoration cutting in a rare pine barren. *Scientia Discipulorum*. 4-2009: 1-20 (K. Adams was the advisor, other authors listed alphabetically).