

Timothy J. Smyser

Purdue University
Dept of Forestry and Nat Res
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EDUCATION

- PhD Student. Department of Forestry and Natural Resources, Purdue University. Current GPA 4.0. Anticipated completion Spring 2009.
Dissertation Research: Genetic and Conservation Concerns for Allegheny Woodrats in Indiana.
- Master of Science. Department of Fish and Wildlife Resources, University of Idaho. GPA 4.0. August 2005.
Thesis Research: The Effect of Habitat Variables on Pronghorn Recruitment.
- Bachelor of Science with Honors. Wildlife Biology and Management, Summa cum Laude, Department of Zoology and Physiology. University of Wyoming. GPA 4.0. December 2000.

RESEARCH EXPERIENCE

August 2005 – Present
Purdue University
Dept of Forestry & Nat Res
195 Marsteller Street
West Lafayette, IN 47907

GRADUATE RESEARCH ASSISTANT

Research objectives are to address conservation and genetic concerns for Allegheny woodrat populations in Indiana. I am seeking to use experimental translocations to further understanding of woodrat population dynamics both locally and range-wide and provide for the long-term conservation of local populations. Responsibilities include overseeing population monitoring of woodrat populations; design and execution of hard mast surveys, raccoon latrine surveys, and anthelmintic bait distribution; and tissue collection, genotyping, and analysis of genetic data from populations within Indiana and throughout the species range.

August 2002 – August 2005
University of Idaho
Dept of Fish and Wildlife
College of Natural Resources
P.O. Box 441136
Moscow, Idaho 83844-1136

GRADUATE RESEARCH ASSISTANT

Research objectives were to relate site-specific habitat variables to pronghorn population-level productivity for three populations in southern Idaho and to develop a survey and analysis protocol for pronghorn line transects from a fixed-wing aircraft, incorporating additional variables which influence sightability within the context of a double observer

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mark-recapture technique. Responsibilities included design and execution of coyote scat transects to rank relative coyote densities; collection and processing of pronghorn fecal samples throughout the lactation season; pre-harvest aerial surveys from both fixed-wing aircraft and helicopters; and statistical analysis of subsequently derived experimental data. Supervised of 1 or more technicians throughout field and laboratory components.

September 2001- April 2002
University of Guelph
Department of Zoology,
University of Guelph,
Guelph, ON N1G 2W1
Canada

GRADUATE RESEARCH ASSISTANT

Research objective were to examine habitat selection on a seasonal basis of American marten in the boreal forest of northwest Ontario. Duties included radio telemetry from a truck, snowmobile, and with a handheld antenna and snow tracking, recording habitat use with personal GPS unit. Assisted in the capture, handling, and radio-marking of marten and the placement of motion-activated cameras to monitor denning.

February 2001 – March 2001
Independent Researcher with
Dr. Greg D. Hayward
University of Wyoming,
Zoology and Physiology
1000 E. University Ave.
Dept 3166
Laramie, WY 82071

RESEARCH ASSISTANT

Examined the southern red-backed vole as a dispersal vector of hypogeous fungus spores. Responsible for data analysis and compilation of findings in a format suitable for submission to a scientific journal.

May 1999 – September 1999
Mentored by Dr. Greg D.
Hayward
University of Wyoming,
Zoology and Physiology
1000 E. University Ave.
Dept 3166
Laramie, WY 82071

INDEPENDENT RESEARCH

Assessed the relationships between habitat patch characteristics and the abundance of male red-winged blackbirds in cattail marsh habitat in northwestern Chicago. Funded by the Experimental Program to Stimulate Competitive Research (EPSCoR), L. Floyd Clark Foundation, and the College of Arts and Science at the University of Wyoming.

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TEACHING EXPERIENCE

August 2004-December 2004
University of Idaho
Dept of Fish and Wildlife
College of Natural Resources
P.O. Box 441136
Moscow, ID 83844-1136

TEACHING ASSISTANT (Fish and Wildlife Population Ecology, WFL 448)

Develop study plans; organize materials; lecture on advanced quantitative population ecology to introduce senior undergraduate students majoring in wildlife resources, fisheries resources, and conservation biology to a broad base of models and computer software associated with data analysis and interpretation; develop exam questions, grade homework and tests, and tutor students.

September 2001- December 2001

University of Guelph
Department of Zoology,
University of Guelph,
Guelph, ON N1G 2W1
Canada

TEACHING ASSISTANT (Population Ecology, BIOL 3110)

Interacted with upper level undergraduates majoring in wildlife biology, marine/freshwater biology, and zoology in a classroom setting to examine issues discussed in lecture at a more thorough and applied level. Additional duties included administering and evaluating student homework and tests.

June 2001- August 2001
YMCA Camp du Nord
3606 North Arm Rd
Ely, MN 55731

CAMP NATURALIST

Established formal and informal educational programs to introduce a broad audience of children through adults to the northern Minnesota ecosystem.

ADDITIONAL FIELD EXPERIENCE

May 2002 – August 2002
US Forest Service
Rocky Mtn Research Station
316 East Myrtle Street
Boise, ID 83702

WILDLIFE TECHNICIAN

Monitored response of cavity-nesting birds to stand-replacement fire in ponderosa pine/Douglas-fir forest of southwest Idaho. Duties included nest searching, nest monitoring, and nest-site vegetation sampling. Species of interest were Lewis' Woodpecker, Northern Flicker, Downy Woodpecker, Hairy Woodpecker, Black-backed Woodpecker, White-headed Woodpecker, Pileated Woodpecker, Mountain Bluebird, Western Bluebird, and American Kestrel.

April 2001 - May 2001
Wyoming Natural Diversity
Database
University of Wyoming
Dept. 3381
1000 E. University Ave.
Laramie, WY 82071

RESEARCH ASSISTANT

Conducted call-playback surveys for Mountain Plover along county roads through northeast Wyoming used ArcView to quantify habitat suitability for survey stratification.

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AWARDS

- Incentive Grant, Graduate School, Purdue University 2006.
- The Andrews Fellowship, Graduate School, Purdue University 2005.
- C.C.& Mary Davidson Award, College of Natural Resources, University of Idaho 2003.
- Honorable Mention, National Science Foundation Graduate Fellowship 2002.
- Outstanding Graduate, College of Arts and Science, University of Wyoming 2001.
- Rhodes Scholar District Finalist, State of Wyoming 2000.
- Honors Scholar Stipend, Honors Program, University of Wyoming 1998-2000.
- Outstanding Undergraduate, Department of Zoology and Physiology, University of Wyoming 2000.
- Sharon Love Harrod Scholarship 1999-2000.
- Arts and Science Independent Study Award 1999.
- L. Floyd Clarke Summer Scholar Award Department of Zoology 1999.
- EPSCoR Independent Summer Study Award 1999.
- Three-time Varsity Letter Award Winner, Swimming, University of Wyoming 1998-2000.
- Two-time Outstanding Student, Wyoming Swimming and Diving Team 1998-1999, 1999-2000.
- Mountain West Conference Scholar Athlete 1999-2000.
- Western Athletic Conference Scholar Athlete 1998-1999.

VOLUNTEER EXPERIENCE

- Assistant coach for Benton Central High School women's varsity soccer team, Benton County, Indiana.
- Assisted in the development of environmental curriculum for Illinois school district #204.
- Assisted impoverished families living in the foothills of the Appalachian Mountains through the Appalachian Service Project.

PUBLICATIONS

Smyser, T.J., O.E. Rhodes, Jr. In Press. Genetic diversity of woodrats: Implications for conservation. In The Allegheny woodrat: Ecology, conservation and management of a declining species. J.D. Peles and J. Wright *eds.* Springer, New York, New York.

Smyser, T.J., A.F. Reeve, and E.O. Garton. In Press. Evaluation of pronghorn population productivity relative to broad-scale habitat variables in Wyoming (1978-2003). Pronghorn Workshop Proceedings 22:00-00.

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PRESENTATIONS

Smyser, T.J., M.A. Hurley, and E.O. Garton. 2006. Population productivity and pronghorn nutrition during lactation. 22nd Biennial Pronghorn Antelope Workshop.

Smyser, T.J., R.J. Guenzel, and E.O. Garton. 2006. Two heads are better than one: A paired observer evaluation of pronghorn line transect surveys. 22nd Biennial Pronghorn Antelope Workshop.

Smyser, T.J., A.F. Reeve, and E.O. Garton. In Press. Evaluation of pronghorn population productivity relative to broad-scale habitat variables in Wyoming (1978-2003). 22nd Biennial Pronghorn Antelope Workshop.

Smyser, T.J., S.A. Johnson, and O.E. Rhodes, Jr. 2006. Population genetics of the Allegheny woodrat (*Neotoma magister*) in Indiana. Purdue University Forestry and Natural Resources Symposium. (Poster).

Smyser, T.J., S.A. Johnson, and O.E. Rhodes, Jr. 2006. Population genetics of the Allegheny woodrat (*Neotoma magister*) in Indiana. Center for the Environment, Seminar and Graduate Research Showcase. (Poster).

Smyser, T.J., S.A. Johnson, and O.E. Rhodes, Jr. 2007. Translocation of Allegheny woodrats (*Neotoma magister*) to Indiana: Response of population dynamics to habitat attributes. Purdue University Forestry and Natural Resources Department Symposium. (Poster).

REFERENCES

Available upon request

NOTABLES

Unassisted triple play, t-ball circa 1985