

CURRICULUM VITAE

PERSONAL

Name: Joshua Michael Parker
Department of Biological Sciences
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EDUCATION

	Conferred	Degree
University of Wyoming (Major: Zoology and Physiology) Dissertation: "The Ecology of the Midget Faded Rattlesnake, <i>Crotalus viridis concolor</i> , in Wyoming."	2003	Ph.D.
University of Wyoming (Major: Zoology and Physiology; Minor: Statistics) Thesis: "Daily and Seasonal Habitat Use and Movements of the Wyoming Toad, <i>Bufo baxteri</i> , With the use of Radio Telemetry."	2000	M.S.
California State University, Stanislaus (Major: Biology; Minor: Chemistry)	1996	B.S.

PROFESSIONAL EXPERIENCE

2009 (fall) Visiting Professor, Department of Biological Sciences, Idaho State University
2003-present Professor of Biology, Department of Biological Sciences, CSN.
2008-present Instructor, Nevada Biomedical Student Pipeline Program, National Institute of Health.
1998-2003 Graduate Assistant, University of Wyoming.
Research Assistant, University of Wyoming.
Teaching Assistant, University of Wyoming.

COURSES TAUGHT

General Biology for Non-Majors Lecture & Laboratory (CSN: Biol 100)
Life in the Oceans Lecture (CSN: Biol 113)
Basic Principles of Biology Lecture (CSN: Biol 130)
Fundamentals of Life Science Lecture and Laboratory (CSN: Biol 189)
Introduction to Organismal Biology Lecture and Laboratory (CSN: Biol 197)
Human Anatomy and Physiology I Laboratory (CSN: Biol 223)
General Biology for Majors Laboratory (University of Wyoming)
Comparative Chordate Anatomy Laboratory (University of Wyoming)

PEER-REVIEWED PUBLICATIONS

1. Oyler-McCance, S. J., J. M. Parker. (in review). A Population Genetic Analysis of the Midget Faded Rattlesnake in Wyoming. *Conservation Genetics*.
2. Parker, J. M., S. H. Anderson. 2007. Ecology and behavior of the Midget Faded Rattlesnake (*Crotalus oreganus concolor*) in Wyoming. *Journal of Herpetology* 41:41-51.
3. Oyler-McCance S. J., J. St. John, J. M. Parker, S. H. Anderson. 2005. Characterization of microsatellite loci isolated in Midget-faded Rattlesnakes (*Crotalus viridis concolor*). *Molecular Ecology Notes* 5: 452-453.
4. Parker, J. M., and S. H. Anderson. 2003. Habitat use and movements of the Wyoming toad, *Bufo baxteri*. *Journal of Wildlife Management* 67: 439-446.
5. Parker, J.M., and S.H. Anderson. 2002. *Crotalus viridis concolor* (midget faded rattlesnake). Maximum length. *Herpetological Review* 33:140.
6. Parker, J. M., S. H. Anderson, and Fredrick Lindzey. 2000. *Bufo baxteri* (Wyoming Toad), predation. *Herpetological Review* 31: 161-162.
7. Parker, J.M., and S.H. Anderson. 2000. Report on the status of *Crotalus viridis concolor*. United States Fish and Wildlife Service. 14pp.

OTHER PUBLICATIONS

8. Parker, J.M., and S.H. Anderson. 2001. Identification guide to the herptiles of Wyoming. Wyoming Game and Fish Department. 41pp.

PROFESSIONAL TALKS AND PAPERS PRESENTED

- 2009 Joint Meeting of Ichthyologists and Herpetologists. (Portland,OR)
“Midget Faded Rattlesnake Biology, Ecology, Population Genetics and Landscape Modeling
- 2009 5th Annual Snake Ecology Group Meeting. (Donnelly, ID)
“Midget Faded Rattlesnake Ecology and Landscape Modeling.”
- 2003 Joint Meeting of Ichthyologists and Herpetologists. (Manaus, Amazonas, Brazil)
“Does prey distribution influence midget faded rattlesnake migrations?”
- 2003 Improvement and Management of Sagebrush Communities in Wyoming. (Rock Springs, WY)
“The Herptiles of the Sagebrush Steppe”
- 2002 The Wildlife Society, National Meeting. (Bismark, ND)
“Habitat associations and behavioral shifts in the midget faded rattlesnake, *Crotalus viridis concolor*.”
- 2002 Joint Meeting of Ichthyologists and Herpetologists. (Kansas City, MO)
“Habitat associations and behavioral shifts in the midget faded rattlesnake, *Crotalus viridis concolor*.”
- 2001 The Wildlife Society, Annual Meeting of the Wyoming Chapter. (Laramie, WY).
“Habitat associations and movements of the midget faded rattlesnake, *Crotalus viridis concolor*, in Wyoming.”
- 2001 Idaho Herpetological Society. (Boise, ID).
“Habitat associations and movements of the midget faded rattlesnake, *Crotalus viridis concolor*, in Wyoming.”

- 2001 The Wildlife Society, National Meeting. (Reno, NV).
 “Repatriation of the Wyoming toad, *Bufo baxteri*: a comparison between wild and captive-raised adult habitat use in the wild.”
 “Habitat associations and movements of the midget faded rattlesnake, *Crotalus viridis concolor*, in Wyoming.”
- 2001 Society of Conservation Biology. (Hilo, HI).
 “Repatriation of the Wyoming toad, *Bufo baxteri*: a comparison between wild and captive-raised adult habitat use in the wild.”
- 2000 Idaho State University, Dr. Charles Peterson Herpetology Laboratory. (Pocotello, ID).
 “Management of the Wyoming Toad, *Bufo Baxteri*, and Research on the Midget Faded Rattlesnake, *Crotalus viridis concolor*.”
- 2000 Idaho Small Population Management Workshop. (McCall, ID).
 “Management of the Wyoming Toad, *Bufo baxteri*, and research on the Midget Faded Rattlesnake, *Crotalus viridis concolor*.”
- 2000 Joint meeting of American Society of Ichthyologists and Herpetologists, American Elasmobranch Society, Neotropical Ichthyological Society, Herpetologists’ League, Canadian Association of Herpetologists, and the Society for the Study of Amphibians and Reptiles. (La Paz, BC, MX).
 “The Wyoming toad, *Bufo baxteri*: habitat use and movements of the last wild population.”
- 2000 The Laramie Audubon Society. (Laramie, WY).
 “Wyoming toad, *Bufo baxteri*, history and research.”
- 1999 American Fisheries Society 34th Annual Meeting of the Colorado-Wyoming Chapter. (Cheyenne, WY).
 “Implications of an inherent problem associated with small population management as illustrated by predation on the last wild population of Wyoming toads, *Bufo baxteri*.”
- 1999 Joint Meeting of American Society of Ichthyologists and Herpetologists, American Elasmobranch Society, Herpetologists’ League, and the Society for the Study of Amphibians and Reptiles. (Penn State, PA).
 “Implications of an inherent problem associated with Small population management as illustrated by predation on the last wild population of Wyoming toads, *Bufo baxteri*.”
- 1999 The Wildlife Society, Annual Meeting of the Wyoming State Chapter. (Casper, WY).
 “The Wyoming toad, *Bufo baxteri*: habitat use and movements of the last wild population.”

SCHOLARSHIPS, FELLOWSHIPS, GRANTS, AND CONTRACTS

George Menkens Memorial Scholarship (2001: \$7, 000)
 Floyd Clark Memorial Scholarship (2002: \$2,500)
 George Baxter Fellowship (1999: \$200)
 Plummer Scholarships(2) (2000-2001: \$100)
 NSF EPSCoR Grant (2002: \$9,000)
 Scott-Walter Travel Award (2001: \$100)
 Paul-Stock Grant-In-Aid Scholarship(4) (1999-2002: \$100)

Research Grants from:

2009-2010: Landscape modeling designed to predict midget faded rattlesnake populations and den sites in Wyoming. Landscape genetics modeling to identify significant landscape variables influencing the population genetics of midget faded rattlesnakes.

Wyoming Game and Fish Department (\$190,000)

2000-2003: "Daily and Seasonal Habitat Use and Movements of the Wyoming Toad, *Bufo baxteri*, With the use of Radio Telemetry."

Wyoming Game and Fish Department (\$10,000)

U.S. Fish and Wildlife Service (\$10,000)

Wyoming Cooperative Fish and Wildlife Research Unit (\$10,000)

Conservation Endowment Fund (CEF) of the American Zoo and Aquarium Association (AZA) (\$10,000)

1998-2000: "The Ecology of the Midget Faded Rattlesnake, *Crotalus viridis concolor*, in Wyoming."

Wyoming Cooperative Fish and Wildlife Research Unit (\$10,000)

United States Geological Survey (\$100,000)

Wyoming Game and Fish Department (\$50,000)

United States Fish and Wildlife Service (\$20,000)

Bureau of Land Management (\$20,000)

Bureau of Reclamation (\$10,000)

National Fish and Wildlife Foundation (\$10,000)

Federal & State Contracts:

2000: U. S. Fish and Wildlife Service: federal status report on the *Crotalus viridis concolor*. (\$5,000)

2000: Wyoming Game and Fish Department: field guide of the amphibians and reptiles of Wyoming. (\$5,000)

SCIENTIFIC ORGANIZATION MEMBERSHIP

Society for the Study of Amphibians and Reptiles: 1999-present

American Society of Ichthyologists and Herpetologists: 1999-present

Herpetologists' League: 1999-present

Wildlife Society

1999/2000 – vice-president of the Wyoming Student Chapter

2000/2001 – executive board member of the Wyoming Student Chapter

CSN COMMITTEE SERVICE

2008-present Evaluation Committee (standing committee)

2008. Viability of 100% DE for Non-Resident Full-Time Faculty Committee

2008. Biology Faculty Search Committee

2006. Part-timer Appreciation Committee

2005-2007. CSN campus-wide Technology Committee (standing committee)

2005. Microbiology Faculty Search Committee

2005. Grade Appeals Committee

2004. Biology Faculty Search Committee

COMMUNITY AND OTHER CSN SERVICE

- 2009 Summer School, 2 lecture/1 lab sections of Biology 189, 100, July/August 2008
Instructor: Biomedical Pipeline Program (NIH Grant), June/July 2009
Science and Technology EXPO, Biology Exhibit “Creepy Crawlers”, April 2008
Lead Faculty, Staffing, Spring/Fall 2008
“Reptiles of the Mojave Desert” presented to Shark Reef Aquarium staff
“Environmental Emergencies” presented to Mohave County Fire Fighters and other
Emergency Personnel
“Critter Connection” presented at Las Vegas Natural History Museum
- 2008 “Insects of the Mojave” presented to local Sierra Club
Learned Dreamweaver Software, designed webpage (www.snakedr.net), September 2008
Instructor: Biomedical Pipeline Program (NIH Grant), June/July 2008
Summer School, 2 lecture sections of Biology 189, July/August 2008
Outstanding Student Awards, presenter of award, May 2008
Science and Technology EXPO, Biology Exhibit “Creepy Crawlers”, April 2008
Science Olympiad, Coord./Judge “Amphibians and Reptiles” Competition, March 2008
Lead Faculty, Staffing, Spring/Fall 2008
- 2007 Wrote script for audio study guide for Brooks/Cole Publishing, November 2007
Presented “Snakes” for Boy Scout Troop 425, Fall 2007
Summer School, 1 lecture and 2 labs, Biology 100, July/August 2007
Science and Technology EXPO, Biology Exhibit “Creepy Crawlers”, April 2007
Lead Faculty, Staffing, Spring/Fall 2007
- 2006 Summer School, 1 lecture and 2 labs, Biology 100, July/August 2006
Science and Technology EXPO, Biology Exhibit “Creepy Crawlers”, April 2006
Lead Faculty, Staffing, Spring/Fall 2006
- 2005 Summer School, 1 lecture and 2 labs, Biology 100, July/August 2005
Science Olympiad, Coord./Judge “Forestry” Competition, March 2005
Science and Technology EXPO, Biology Exhibit “Creepy Crawlers”, April 2005
Lead Faculty, Staffing, Fall 2005
- 2004 Summer School, 1 lecture and 2 labs, Biology 100, July/August 2004
Member of Committee to design remedial biology course, Biology 095
Science Olympiad, Coord./Judge “Forestry” Competition, March 2004
- 2003 Busy preparing newly taught courses...first semester of hire

WORKSHOPS ATTENDED

1st Annual Regents’ Academy
Search Committee Workshop Training Session
SmarThinking Online Tutoring Workshop
Grant Development Workshop
Digital Virtual Reality Workshop
CCSN Honors Program Workshop
SOS for SIS Workshop
Know Your Rights as a CCSN Employee Workshop
Information Literacy Workshop
Webct Workshop
Senate Evaluation Policy Forum