

JENNIFER ANN-JOHNSON FEIGHNY

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EDUCATION

2005 Doctor of Philosophy (Biology Education). University of Northern Colorado (UNC), Greeley
2000 Master of Arts (Animal Behaviour). University of Northern Colorado (UNC), Greeley
1997 Bachelor of Science (Zoology). University of North Dakota (UND), Grand Forks
1993 High School Diploma. Fargo North High School. Fargo, ND

CURRENT POSITION

National Monitoring Natural Resource Specialist, Research Associate III. Colorado State University in cooperation with the National Park Service with the primary focus of assisting in the development of technical guidance and science communication tools for long-term monitoring of natural resources in national parks. In this position I have been responsible for: 1) assisting with the development and maintenance of technical guidance, brochures, training materials, and summary reports related to the design and implementation of long-term ecological monitoring of abiotic and biotic resources in national parks, 2) conducting peer reviews of ecological monitoring plans, administrative reports, and other scientific documents related to ecological monitoring, 3) developing and updating internet and intranet websites to communicate monitoring technical guidance, training materials, and other information to National Park Service staff and cooperating agencies and individuals, 4) modifying, merging, and updating relational MS Access databases and Excel spreadsheets for sharing technical guidance, monitoring protocols, and monitoring datasets among National Park Service staff, cooperators, and other agencies and individuals, 5) working with and providing technical assistance on information management, relational databases, MS Access, and website maintenance to National Park Service and Colorado State University staff and cooperators working with ecological monitoring and 6) attending, keeping notes, and writing summaries of workshops and other meetings.

TEACHING

2005-present Part-time Laboratory Teaching Assistant; General Biology for non-majors and introduction to organismal biology. Dept. of Biological Sciences, UNC
2004 summer International Student Volunteers (ISV) Australia in-field faculty; Conservation, natural history, ecology, general biology of Australia's flora & fauna
2003 University Lecturer; Biology for non-majors. Dept. of Biological Sciences, UNC
1998-2005 Graduate Teaching Assistant; General and organismal biology, ecology, mammalogy & animal behaviour laboratories. Dept. of Biological Sciences, UNC
1996-1997 Biology tutor; University Learning Services, UND

RESEARCH AND SKILLS

2005-present Web development and management, data administration, technical support, programming, and technical writing for the National Park Service's Inventory and Monitoring Program including extensive experience in the web realm with design, implementation, management, database integration, programming, and technical support. Data administration skills include database design, implementation and maintenance. Programming skills include database programming, and database user interfaces Proficient in many software applications including Dreamweaver, MS Office 2007 suite, Adobe Creative Design Suite and MS SharePoint. Training and some experience in: ColdFusion, ARCVIEW GIS, .NET applications, Visual Studio, Program Management and Service Oriented Architecture.

2006 Organized and facilitated the 5th Annual National Park Service Inventory and Monitoring Meeting of the Networks, San Diego, CA, February.

2004 summer *Royal Melbourne Institute of Technology (RMIT) Striped Legless Lizard recovery project ISV faculty staff*; Victoria, Australia: Placement of abundance grids, GPS data, slope, aspect, and soil sampling at each site (private & public) for reconstruction of preferred habitat.

- 1998-2005 *Wapiti vocalization research*, Rocky Mountain National Park & Elk ranches, Steamboat Springs, CO: Audio recordings of wapiti vocalizations in national parks and captive ranches. Ear tagging, weight and immunization of newborn captive elk.
- 2003 summer *USGS Prairie Dog & Plague study volunteer research assistant*; Dinosaur, CO: Measurements, anesthetizing, ear tagging, and radio-telemetry of prairie dogs; Blood and flea collection of prairie dogs for CDC analysis of plague.
- 1998-2005 *Graduate Assistant; Animal Facilities*; Dept. of Biological Sciences, UNC: greenhouse and museum organization, prep and care.
- 1997-1998 *Bottlenose dolphin study volunteer research assistant*; Hilton Head Island, SC: Data collection of dolphin behaviour, boat operation, navigation, and fin identification photography.
- 1995-1997 *Howard Hughes Undergraduate Research Fellow*; Department of Biology, UND: Physiology, ecology and behaviour of fishes.
- 1996 *Howard Hughes Undergraduate Research Apprenticeship*, Department of Biology, UND.
- 1996 summer *Dolphin Field School student*: data collection of Bottlenose dolphin behaviour, boat operation, fin identification photography.
- 1995 *Independent study*: Hermit crabs and snails in the tidal pools of Mal Pais, Costa Rica.
- 1994 *Student researcher*: Group work on different habitats of Costa Rican natural history.

HONORS & AWARDS

GRADUATE

- *Doctor of Philosophy, *Summa cum laude*, Department of Biological Sciences, UNC
- *Graduate Dean's citation for excellent dissertation, Department of Biological Sciences, UNC
- *Master of Arts, *Summa cum laude*, Department of Biological Sciences, UNC
- *Graduate Dean's citation for excellence, Department of Biological Sciences, UNC
- *Graduate Teaching Assistantships, Department of Biological Sciences, UNC
- *Graduate Research Assistantships, Department of Biological Sciences, UNC
- *UNC Department of Biological Sciences Graduate Representative, 2 years (elect)
- *UNC Dean's List, 5 years

UNDERGRADUATE

- *Bachelor of Science, *Magna cum laude*
- *American Cetacean Society, 1996 Bemis DeBus 1st place poster award
- *Howard Hughes Undergraduate Research Fellow, 2 years
- *Howard Hughes Undergraduate Research Apprentice, 4

PROFESSIONAL DEVELOPMENT

- *Using ASP.NET course
- *Introduction to Microsoft .NET
- *Introduction to ArcGIS for Land Management Agencies
- *Project Management Education Program (21 PDU credits)

VOLUNTEER WORK

- *ISV Australia faculty Earth Sanctuary Waratah Park restoration for native animals, 1 year
- *Weld County Bike Month events, 3 years
- *Rocky Mountain National Park Bugle Core guest speaker, 1 year

GRANTS AND SCHOLARSHIPS

- *Colorado Graduate Grant, Department of Biological Sciences, UNC \$ 1,800
- *Graduate Student Association Research Grants, Graduate Student Association, UNC \$ 4,500
- *Winchester Fund, Department of Biological Sciences, UNC \$ 1,800
- *Graduate Student Association Travel Grants, Graduate Student Association, UNC \$ 1,200
- *Gerald Schmidt Memorial Biology Scholarship, Department of Biological Sciences, UNC \$ 550
- *Sponsored Programs and Academic Research Center Grant, UNC \$ 5,000
- *Howard Hughes Undergraduate Research Apprenticeships, Dept. of Biology, UND \$ 3,333
- *Howard Hughes Research Fellowships, (1995-1997), Department of Biology, UND \$22,740

PUBLICATIONS

- Feighny, J.A.J and Clarke, J.A.** (2006) North American elk bugle vocalizations: male and female bugle call structure and context. *Journal of Mammalogy*. 87(6):1072-1077.
- Feighny, J.A.J.** (2005) Wapiti vocalizations: development, environmental and anatomical constraints. Published Doctoral Dissertation. Department of Biological Sciences, University of Northern Colorado, Greeley, CO 80639.
- Feighny, J.A.J.,** Weber, J., Clarke, J.A. (2005) An analysis of the wapiti bugle fundamental frequency. In preparation for *Bioacoustics*.
- Feighny, J.A.J.,** Weber, J., Clarke, J.A. (2005) Further analysis of signature characteristics is wapiti bugles using voice print technology. In preparation for *Bioacoustics*.
- Rinker, L., **Feighny, J.A.J.,** Clarke, J.A. (2005) Dual function hypothesis and the acoustic design of male wapiti bugle calls. In preparation for *Journal of Mammalogy*.
- Heybourne, B., **Feighny, J.A.J.,** Rinker, L., Clarke, J.A. (2005) The evolution of assessment in an introductory biology laboratory. In preparation for *Journal of College Biology Teaching*.
- Fitch, W.T., Reby, D., Clarke, J.A., **Johnson, J.A.J.** and Nelson, T.L. (2005) Comparative anatomy of the descended larynx in red deer and wapiti. In review for the *Journal of Anatomy*.
- Johnson, J.A.** 2000. Bugles of bull elk in Rocky Mountain National Park: acoustic form and signature characteristics. Published Master's Thesis. Department of Biological Sciences, University of Northern Colorado, Greeley, CO 80639.
- Johnson, J.A.** and Kelsch, S.W. 1996 Effects of annual temperature cycles on the evolution of temperature preference in fishes. Abstract. *Proceedings of the North Dakota Academy of Science* 51:148.
- Johnson, J.A.** and Kelsch, S.W. 1998. Effects of evolutionary thermal environment on temperature-preference relationships in fishes. *Environmental Biology of Fishes* 53: 447-458.

PRESENTATIONS

- Feighny, J.A.J.,** Inventory and Monitoring Webpage Design and Maintenance Using Dreamweaver 8: The New Format. Inventory & Monitoring Data Management Conference, Las Cruces, NM 2007.
- Feighny, J.A.J.,** Beer, M. Inventory and Monitoring Webpage Presentation: The New Format. Fifth National Park Service Inventory and Monitoring Meeting of the Networks, San Diego, CA 2006.
- Feighny, J.A.J.,** Bennets, R., and Fancy, S. Desired Future Conditions in our National Parks. Fifth National Park Service Inventory and Monitoring Meeting of the Networks, San Diego, CA 2006.
- Feighny, J.A.J.,** and Fancy, S. Inventory and Monitoring Successes and Highlights in our National Parks. Fifth National Park Service Inventory and Monitoring Meeting of the Networks, San Diego, CA 2006.
- Feighny, J.A.J.** and Clarke, J.A. Ontogeny of the wapiti bugle: development of a ritualized display. Animal Behaviour Society Conference. Snowbird, UT. 2005.
- Rinker, L., **Feighny, J.A.J.,** and Clarke, J.A. Aggression and the dual function of male wapiti bugle vocalizations. Animal Behaviour Society Conference. Snowbird, UT. 2005.
- Johnson, J.A.** Wapiti versus red deer, are they the same species? Invited lecturer, RMIT Hamilton campus, Victoria, Australia. 2004.
- Johnson, J.A.** and Clarke, J.A. Wapiti bugles: form, signature and honest signaling. American Society of Mammalogists annual meeting, Humboldt State University, Arcata, CA. 2004.
- Rinker, L., **Johnson, J.A.,** and Clarke, J.A. Wapiti bugle complexity: different messages to different genders? American Society of Mammalogists annual meeting, Humboldt State University, Arcata, CA. 2004.
- Johnson, J.A.,** Nelson, T.L., Armstrong, D. and Clarke, J.A. Acoustic analyses of wapiti bugle calls: Signature characteristics, motivation-structural components and geographic variation. American Association for the Advancement of Science meeting, Denver, CO. 2003.
- Johnson, J.A.,** Nelson, T. and Clarke, J.A. Rocky Mountain elk: Natural History and Communication. Invited lecturer, Teton Science School, Moose, WY. 2001.
- Johnson, J.A.,** Nelson, T. and Clarke, J.A. Rocky Mountain elk: Natural History and Communication. Invited lecturer, Rocky Mountain National Park, Estes Park, CO. 2001.
- Nelson, T., **Johnson, J.A.** and Clarke, J.A. Do Dialects exist between Rocky Mountain elk populations? Animal Behaviour Society Conference. Oregon State University, Corvallis, OR. 2001.
- Johnson, J.A.** and Clarke, J.A. Evidence for signature characteristics in bugles of elk in Rocky Mountain National Park. Animal Behaviour Society Conference. Morehouse College, Atlanta, GA. 2000.
- Johnson, J.A.** and Clarke, J.A. Bugle calls of Rocky Mountain elk and individual signature characteristics. UNC Research Conference. UNC, Greeley, CO. 2000.
- Johnson, J.A.** and Clarke, J.A. Bugle calls of Rocky Mountain elk and individual signature characteristics. Animal Behaviour Society Conference. Bucknell University, Lewisburg, PA. 1999.

Johnson, J.A. and Kelsch, S.W. Effects of temporal thermal environment in the evolution of temperature preference in fishes. American Fisheries Society Dakota/Minnesota Chapter Meeting. Fargo, ND. 1997.

Dixon, M., **Johnson, J.A.**, Iammeteo, N., Collentelli, S., and Jones, S. Analysis of sentry behavior in Bottlenose dolphins in the lower Chesapeake Bay. Atlantic Coastal Dolphin Conference. University of North Carolina at Wilmington, Wilmington, SC. 1997.

Dixon, M., **Johnson, J.A.**, Iammeteo, N., Collentelli, S., and Jones, S. Analysis of sentry behavior in Bottlenose dolphins in the lower Chesapeake Bay. American Cetacean Society Conference, San Pedro, CA. 1996.

PROFESSIONAL MEMBERSHIPS

Animal Behaviour Society, American Association for the Advancement of Science, American Society of Mammalogists, The Wildlife Society, Colorado Wildlife Society, Predator Conservation Alliance.

REFERENCES

Steven G. Fancy, Ph.D.

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