

## STEPHEN D. JORDAN

Department of Biology, Bucknell University, Lewisburg, PA 17837 USA  
sdjordan@bucknell.edu, <http://www.facstaff.bucknell.edu/sdjordan/jordan.html>  
Tel work: +1 (570) 523-0923 Fax: +1 (570) 577-3537

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CURRENT APPOINTMENTS: Aug. 2003-Present. Assistant Professor of Biology  
Bucknell University, Lewisburg, Pennsylvania  
March 2006-Present Associate Editor, *Molecular Ecology Notes*

### PREVIOUS EXPERIENCE AND EDUCATION:

1/2002-7/2003 NSF Postdoctoral Researcher CNRS Laboratoire d'Ecologie Alpine, Génomique des  
Populations et Biodiversité Team, Grenoble, France  
Project: Comparative genomics and phylogenetics of the genus *Capra*, testing for selection  
signatures at up to 12 candidate loci

2001 **Ph.D.** University of Connecticut  
Major: Entomology Storrs, Connecticut  
Dissertation: *Molecular Systematics and Phylogeography of Hawaii's Megalagrion  
Damselflies*. Advisor: Dr. Chris Simon

1996 **M.S.** Brigham Young University  
Major: Zoology Provo, Utah  
Thesis: *Benthic Invertebrates of a Large, Sandy River System: The Green and Colorado  
Rivers of Canyonlands National Park, Utah*. Advisor: Dr. Dennis K. Shiozawa

1992 **B. A. Cum Laude** Brigham Young University  
Major: French Provo, Utah  
Minor: International Relations

### PEER-REVIEWED PUBLICATIONS (\*Bucknell Student Authors):

- Jordan, S.**, E. Barruet\*, M. Olaf\*, B. Parsons, and C. Simon. 2007. Blue *hawaiiense* and beyond: conservation genetics and comparative phylogeography of four Hawai'ian *Megalagrion* damselfly species (Odonata: Coenagrionidae). Proceedings of the Symposium on the Biology of Hawaiian Streams and Estuaries: Bishop Museum Bulletin in Cultural and Environmental Studies 3: 247–260.
- Pidancier, N.<sup>1</sup>, **S. Jordan**<sup>1</sup>, G. Luikart, P. J. Weinberg, and P. Taberlet. 2006. Evolutionary history of the genus *Capra* (Mammalia, Artiodactyla): Discordance between mitochondrial DNA and Y-chromosome phylogenies. *Molecular Phylogenetics and Evolution* 40: 739-749. (<sup>1</sup>**Co-first authors**)
- Jordan S.**, C. Miquel, P. Taberlet, and G. Luikart. 2006. Sequencing primers and SNPs for rapidly evolving reproductive loci in endangered ibex and their kin (Bovidae, *Capra* spp.). *Molecular Ecology Notes* 6: 776-779.
- Jordan, S.**, C. Simon, D. Foote, and R. A. Englund. 2005. Phylogeographic patterns of Hawaiian *Megalagrion* damselflies (Odonata: Coenagrionidae) correlate with Pleistocene island boundaries. *Molecular Ecology*. 14: 3457–3470.
- Beja-Pereira, A., P. R. England, N. Ferrand, **S. Jordan**, A. Bakhiet, M. A. Abdalla, M. Mashkour, J. Jordana, P. Taberlet, G. Luikart. 2004. Two African origins of the domestic donkey. *Science* 304:1781.
- Luikart, G., P. R. England, D. Tallmon, **S. Jordan** and P. Taberlet. 2003. The power and promise of population genomics: from genotyping to genome typing. *Nature Reviews Genetics* 4(12): 981-994.
- Jordan, S.**, C. Simon, and D. Polhemus. 2003. Molecular systematics and adaptive radiation of Hawaii's endemic damselfly genus *Megalagrion* (Odonata: Coenagrionidae). *Systematic Biology* 52(1):89-109.
- Johnson, J. B. and **S. Jordan**. 2000. Phylogenetic divergence in leatherside chub (*Gila copei*) inferred from mitochondrial cytochrome b sequences. *Molecular Ecology* 9:1029-1035.
- Jordan, S.**, D. K. Shiozawa, and J. M. Schmid-Araya. 1999. Benthic invertebrates of a large, sandy river system: The Green and Colorado Rivers of Canyonlands National Park, Utah. *Archiv für Hydrobiologie* 147(1):91-127.

#### PUBLICATIONS IN PREPARATION:

- Jordan, S.** Nested clade analysis is being broadly misused. Planned for submission to *Molecular Ecology*.  
Carle, S\*., **S. Jordan**, and M. Olaf\*. A Phylogeographic Analysis of the Hawaiian Damselfly Species  
*Megalagrion koelense*. Planned for submission to Pacific Science.
- Balkız, Ö., **S. Jordan**, H. Fernández, D. Özüt, P. Weinberg, E. Askerov, G. Luikart, A. Kence.  
Mitochondrial DNA sequencing reveals two distinct conservation units among Anatolian wild goat  
(*Capra aegagrus*) populations.

#### TEACHING EXPERIENCE:

|            |                           |  |
|------------|---------------------------|--|
| 2006       | Instructor (Bucknell)     | 1 <sup>st</sup> Year Foundation Seminar – Islands and Beaches: the Marquesas from Melville to Survivor |
| 2005, 2006 | Instructor (Bucknell)     | Biology 208 – Population Biol. (Ecology and Evolution) w/ lab  |
| 2004       | Instructor (Bucknell)     | Biology 359 – General Entomology with lab  |
| 2004, 2006 | Instructor (Bucknell)     | Biology 358 – Invertebrate Zoology with lab  |
| 2004       | Lab Instructor (Bucknell) | Biology 206 – Organismal Biology   |
| 2003, 2004 | Instructor (Bucknell)     | Biology 361 – Systematic Biology   |
| 2003       | Lab Instructor (Bucknell) | Biology 205 – Intro. to Molecules and Cells  |
| 2003       | Lab Instructor (Bucknell) | Biology 121 – General Biology  |
| 2001       | Lab Instructor (UConn)    | Principles and Methods of Systematic Biology   |
| 2000       | Lab Instructor (UConn)    | Introductory Biology for Majors  |
| 2000       | Lab Instructor (UConn)    | Molecular Methods in Systematics   |
| 1997-98    | Lab Instructor (UConn)    | General Entomology   |
| 1996-97    | Lab Instructor (UConn)    | Introductory Biology for Non-Majors  |
| 1996       | Lab Instructor (BYU)      | General Ecology  |
| 1994-96    | Lab Instructor (BYU)      | Introductory Biology for Non-Majors  |
| 1995       | Lab Instructor (BYU)      | Environmental Biology  |
| 1993-94    | Writing TA (BYU)          | Environmental Biology and Policy   |
| 1992       | Instructor (BYU)          | French 102   |
| 1991-93    | Lab Instructor (BYU)      | Physical Science 100   |
| 1991-93    | Lab Instructor (BYU)      | French 101 and 102   |

#### STUDENT PROJECTS MENTORED:

|           |   |
|-----------|---|
| 2006      | Todd Dowling, BS, Bucknell University, Testing many mammalian genes for positive Darwinian selection  |
| 2006      | Jenn Mrozek, BS, Bucknell University, Nuclear gene molecular systematics of endemic Marquesan damselfly genus <i>Bedfordia</i>  |
| 2006      | Mark Olaf, BS, Bucknell University, Molecular and Morphological systematics of the damselflies of the Marquesas Islands   |
| 2004      | Emilie Barruet, BS, Bucknell University, Nuclear gene phylogeography of the Hawaiian damselfly <i>Megalagrion koelense</i>  |
| 2004      | Meg Cusimano, BS, Bucknell University, Cryptic species of the goldenrod-associated tumbling flower beetle, <i>Mordellistena convicta</i>                                  |
| 2003-2004 | Sarah Carle, BS, Bucknell University, Phylogeography of the Hawaiian damselfly <i>Megalagrion koelense</i>  |
| 2002      | Özge Balkız, MS, Middle Eastern Technical University (Ankara), The phylogeny of wild goats ( <i>Capra aegagrus</i> E.) in Turkey as determined by mtDNA D-loop sequencing |
| 1998-2000 | Barbara Parsons, BS, UConn, Intraspecific genetic variation of <i>Megalagrion hawaiiense</i>  |
| 1998      | Kristen Jordan, BS, the Evergreen State Collge, Preliminary molecular systematics of the Fijian damselfly genus <i>Nesobasis</i>  |

#### GRANTS, AWARDS, AND SCHOLARSHIPS:

- 2001 NSF International Research Fellowship, *Testing for selection signatures and reconstructing the phylogeographic history of the Capra genus: A genome-wide candidate gene sequencing approach*, \$80,000
- 2001 French Government Chateaubriand Postdoctoral Fellowship, ~ \$22,000, declined.

- 2000 NSF Doctoral Dissertation Improvement Grant, *Molecular systematics, origin, and conservation of the Hawaiian damselfly genus Megalagrion*, \$10,000
- 1999 USGS Biological Resources Division research grant, *Phylogeography, fragmentation, and gene flow in three Hawaiian damselfly species*, \$4000
- 1999 Canon National Parks Science Scholars Program, Honorable Mention in Biological Sciences, *Population fragmentation within the damselfly genus Megalagrion in Hawaiian National Parks: Genetic consequences and implications for management*, \$2000
- 1998 University of Connecticut Ecology and Evolutionary Biology Slater Entomology Research Fund award, \$200
- 1998 University of Connecticut Ecology and Evolutionary Biology Penner Invertebrate Research Fund award, \$100
- 1997 Sigma Xi Grant in Aid of Research for study of the conservation genetics of the Hawaiian damselfly genus *Megalagrion*, \$600
- 1996 University of Connecticut Outstanding Scholar Fellowship
- 1996 National Science Foundation Graduate Research Traineeship in Biodiversity, University of Connecticut
- 1995 BYU Gary M. Booth Entomology Scholarship Recipient, \$1000
- 1994 BYU Zoology Department Supplemental Tuition Award (two years)

INVITED PROFESSIONAL PRESENTATIONS:

- Jordan, S.** October 2005. Blue hawaiiense and beyond: systematics and phylogeography of Hawaii's endemic *Megalagrion* damselflies. **Invited talk.** Division of Biological Sciences, University of Montana, Missoula, MT, USA.
- Jordan, S.,** E. Barruet, M. Olaf, B. Parsons, and C. Simon. April 27, 2005. Blue *hawaiiense* and beyond: conservation genetics and comparative phylogeography of four Hawai'ian damselfly species (Odonata: Coenagrionidae). **Invited talk.** Symposium on the Biology of Hawaiian Streams and Estuaries, Hilo, Hawaii, USA.
- Jordan, S.** October 2004. Blue hawaiiense and other tales from the Hawaiian damselflies. **Invited talk.** Department of Entomology Jugatae seminar, Cornell University. Ithaca, NY, USA.
- Jordan, S.** C. Simon, D. Polhemus. Feb. 19, 2003. The pattern beneath the process: reconstructing the phylogeny of *Megalagrion*. Pacific Entomology Conference, Honolulu, HI.
- Jordan, S., C. Simon, B. Parsons, R. Englund, and D. Foote. Feb. 19, 2003. Do populations matter? Intraspecific haplotype variation in widespread *Megalagrion* species. Pacific Entomology Conference, Honolulu, HI.
- Jordan, S.** February 2003. **Systematics** and adaptive radiation of Hawaii's *Megalagrion* damselflies. **Invited talk.** Department of Biology, Bucknell University. Lewisburg, PA, USA.
- Jordan, S.** November 2002. Systématique moléculaire et radiation adaptative des agrions (demoiselles) endémiques de Hawaii. **Invited talk** (given in French). Département de Sciences biologiques, Université de Montréal, Québec.
- Jordan, S.** February 2002. Molecular systematics and adaptive radiation in the endemic Hawaiian damselfly genus *Megalagrion*. **Invited talk** (given in French). Laboratoire d'Écologie Alpine, Université Joseph Fourier. Grenoble, France.
- Jordan, S.** January 2001. Molecular systematics and conservation genetics of an endemic Hawaiian damselfly radiation. **Invited talk.** Department of Biology, Lewis and Clark College. Portland, Oregon.
- Jordan, S.** October 2001. Molecular systematics and phylogeography of Hawaii's marvelous endemic damselflies. **Invited talk.** Connecticut Entomological Society, Storrs, Connecticut.

CONTRIBUTED PROFESSIONAL PRESENTATIONS (\*Bucknell Student Authors):

- Dowling, T. \*, and **S. Jordan**. June 2006. Selection tests of many mammalian nuclear genes. **Poster presentation**. 2006 Annual meeting of the Society of Systematic Biologists and the Society for the Study of Evolution, Stony Brook, New York.
- Mrozek, J. \*, **S. Jordan**, M. Olaf\*, D. Polhemus, and R. Englund. June 2006. Molecular systematics and biogeography of Marquesan damselflies (Coenagrionidae: *Bedfordia*). **Poster presentation**. 2006 Annual meeting of the Society of Systematic Biologists and the Society for the Study of Evolution, Stony Brook, New York.
- Jordan, S.**, M. Olaf\*, S. Carle\*, R. Englund, D. Foote, C. Simon, and B. Parsons. June 2004. Comparative phylogeography of four Hawaiian damselfly species. **Poster presentation**. 2004 Annual meeting of the Society of Systematic Biologists and the Society for the Study of Evolution. Fort Collins, Colorado.
- Englund, R. A., D. A. Polhemus, and **S. Jordan**. July 2002. Conservation of tropical insular Pacific aquatic insects: Two case studies from Hawaii. **Contributed talk**. 2002 Annual meeting of the Society for Conservation Biology. Canterbury, UK.
- Fernandez, H, A. T. Virk, **S. Jordan**, and G. Luikart. June 2002. Molecular systematics and conservation of the endangered Chiltan markhor. **Poster presentation**. III World Conference on Mountain Ungulates. Zaragoza, Spain.
- Jordan, S.** and C. Simon. June 2001. The effect of distant outgroups on estimates of among site rate variation: The Hawaiian damselflies as a case study. **Contributed talk**. 2001 Annual meeting of the Society of Systematic Biologists and the Society for the Study of Evolution. Knoxville, Tennessee.
- Lewis, P., **S. Jordan**, C. Bell, and D. Swofford. June 2001. Phylogenetic landscapes in simulated versus actual nucleotide sequence data sets. **Contributed talk**. 2001 Annual meeting of the Society of Systematic Biologists and the Society for the Study of Evolution. Knoxville, Tennessee.
- Jordan, S.**, D. Foote, and C. Simon. October 2000. Phylogeography, population genetics, and conservation of the Hawaiian damselflies *Megalagrion xanthomelas* and *M. pacificum*. **Poster presentation**. New England Molecular Evolutionary Biologists Meeting. Harvard University, Cambridge, Mass.
- Jordan, S.**, D. Foote, and C. Simon. August 2000. Phylogeography, population genetics, and conservation of the Hawaiian damselflies *Megalagrion xanthomelas* and *M. pacificum*. **Poster presentation**. 2000 Hawaii Conservation Conference. Honolulu, Hawaii.
- Jordan, S.**, D. Foote, and C. Simon. August 2000. Phylogeography, population genetics, and conservation of the Hawaiian damselflies *Megalagrion xanthomelas* and *M. pacificum*. **Contributed Talk**. Annual meeting of the Society of Systematic Biologists and the Society for the Study of Evolution. Bloomington, Indiana.
- Jordan, S.** December 1999. Bug collecting in the Marquesas Islands: My peep at Polynesian life. EEB Dept. Ecologie. **Oral Presentation**. U. of Connecticut.
- Parsons, B. P., **S. Jordan**, and C. Simon. July 1999. Molecular systematics and phylogeography of the Hawaiian damselfly *Megalagrion hawaiiense*: Implications for conservation. **Poster presentation**. 1999 Hawaii Conservation Conference. Honolulu, Hawaii.
- Jordan, S.**, D. Polhemus, and C. Simon. July 1998. Morphological and molecular systematics of the Hawaiian damselfly genus *Megalagrion*: Implications for conservation. **Poster presentation**. 1998 Hawaii Conservation Conference. Honolulu, Hawaii.
- Jordan, S.**, D. Polhemus, and C. Simon. June 1998. Morphological and molecular systematics of the Hawaiian damselfly genus *Megalagrion*: Implications for conservation. **Poster presentation**. 1998 Annual meeting of the Society of Systematic Biologists and the Society for the Study of Evolution. Vancouver, B.C.
- Seeger, J., M. H. Richards, J. Burner, **S. D. Jordan**, T. DeWolf, K. Kjer, and G. A. Herrick. June 1996. Testing models for the evolution of sex-determination and chromosome-elimination systems in scale insects (Homoptera: Coccoidea). **Poster presentation**. Society for Molecular Biology and Evolution. Tucson, AZ.
- Jordan, S. D.** and D. K. Shiozawa. June 1996. The soft-sediment benthos of a turbid, sandy river system: The Green and Colorado Rivers of Canyonlands National Park, Utah. **Contributed talk**. North American Benthological Society, 44<sup>th</sup> Annual Meeting. Kalispell, Montana.
- Jordan, S. D.** and D. K. Shiozawa. July 1995. Densities and habitat usage patterns of meiofauna in the Green and Colorado Rivers, Canyonlands National Park, Utah, USA. **Contributed talk**. Ninth International Meiofauna Conference. Perpignan, France.

REFEREE FOR:

*Molecular Biology and Evolution*  
*Molecular Ecology*  
*Systematic Biology*

PROFESSIONAL SOCIETIES:

The Society for the Study of Evolution (1994)  
North American Benthological Society (1995)  
Society of Systematic Biologists (1997)  
Entomological Society of America (2000)  
Society for Conservation Biology (2002)

LANGUAGES:

French      Excellent reading, writing, and speaking ability

FIELD EXPERIENCE:

|                     |  |
|---------------------|--|
| April 2005          | Hawaii   |
| February 2003       | Hawaii   |
| February 2002       | Antalya, Turkey  |
| August 2001         | Tahiti and Marquesas Islands, French Polynesia                             |
| August 2000         | Hawaii   |
| October 1999        | Marquesas Islands, French Polynesia  |
| July 1998           | Hawaii   |
| July 1994-Oct. 1995 | Green and Colorado Rivers, Canyonlands National Park, Utah – 8 expeditions |
| June 1994           | Grand Teton and Yellowstone National Park                                  |