## SCOTT BRENT NELSON

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#### Education

2012 – Present: PhD student, Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign

2006 – 2010: Ars Bachelorium, University of Chicago; major in Biological Sciences

Fall 2009: Savanna Ecology and Conservation program; Organization for Tropical Studies, South Africa

# **Professional Experience**

Fall 2012 – Present: PhD student

Lab of Dr. James Miller, Dept. of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign

• Habitat selection and fitness of male and female Dickcissels (*Spiza americana*) over hierarchically nested spatial scales in Midwestern grasslands

Fall 2013 – Spring 2014: Volunteer bird bander

Assisted with graduate research programs of Christine Parker (UIUC), Sarah Schneider (UIUC), and Henry Pollock (UIUC, Smithsonian Tropical Research Institute in the Republic of Panama)

Summer 2010 – Summer 2012: Research Support Specialist

Lab of Dr. Jennifer Thaler, Dept. of Entomology, Cornell University

• Behavioral and chemical ecology in tri-trophic systems of insects and Solanaceous plants

Summer 2007 – Spring 2010: Undergraduate Research Assistant

Lab of Dr. Aaron Turkewitz, Dept. of Molecular Genetics and Cell Biol., University of Chicago

• Membrane trafficking and phagosomal maturation in the ciliate *Tetrahymena thermophila* 

Summer 2007: Undergraduate Research Assistant

Lab of Dr. Martin Kreitman, Dept. of Ecology and Evolution, University of Chicago

• Evolutionary selection due to climatic environment in *Drosophila melanogaster* 

# **Teaching experience**

Spring 2015: Teaching assistant for NRES 456 Integrated Ecosystem Management

• Duties included grading, maintenance of compass website, holding student office hours, and class organization

### **Published Articles**

Bright L.J., Kambesis N., **Nelson S.B.**, Jeong B., Turkewitz A.P. 2010. Comprehensive Analysis Reveals Dynamic and Evolutionary Plasticity of Rab GTPases and Membrane Traffic in Tetrahymena thermophila. PLoS Genet 6 (10): e1001155. doi:10.1371/journal.pgen.1001155

## **Oral presentations**

- **S. Nelson** and J. Miller. (February, 2015). Adaptive habitat selection in birds is complicated by tradeoffs among different components of fitness. UIUC Graduates in Ecology and Evolutionary Biology Research Symposium. Urbana, IL.
- **S. Nelson** and J. Miller. (February, 2015). Habitat preferences and reproductive success in the dickcissel. Midwest Fish and Wildlife Conference. Indianapolis, IN.
- D. Halaney, **S. Nelson**, and V. Tandukar. (November, 2009). The differences in the diversity of ground-dwelling arthropod taxa under large and small trees. Presentation to an assembly of South African National Parks staff and scientists. Kruger National Park, Mpumalanga Province, South Africa.

## **Poster presentations**

- D. Jen, **S. Nelson**, and J. Miller. (April, 2015). The Spatial and Territorial Dynamics of Male Dickcissels (*Spiza americana*) Throughout Their Breeding Cycle. ACES Undergraduate Research Symposium.
- Y. Chen, **S. Nelson**, and J. Miller. (April, 2015). Territory selection and breeding success of dickcissels over fine spatial and temporal scales. Researchers Initiative Poster Symposium.
- M. Gusztyn, R. Kumar, **S. Nelson**, and J. Miller. (April, 2014). Assessing whether male Dickcissels prefer to settle in habitats where they achieve the greatest reproductive success. Researchers Initiative Poster Symposium.

#### **Honors and Awards**

NRES Educational Opportunity Grant, 2014 for travel to the Republic of Panama for bird banding training (\$350)

*Jonathan Baldwin Turner Fellowship* 2012-2014 for Graduate Degree Program in Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign (\$20,000 per year)

General Honors for A.B. studies at the University of Chicago, 2010

Award from the Organization for Tropical Studies Grant Committee, 2009 (\$2,500)

### **Extracurricular Work**

2014-Present: President of the UIUC registered students' organization Red Bison; my role is to plan and organize our organization's native planting and invasive species removal projects, as well as to retain and recruit members in the group

2014-2015: Graduate Representative of the UIUC Student Chapter of the Wildlife Society; my role was to connect undergraduate student desiring research experience with graduate students who are able to provide such opportunities, in addition to creating a wildlife photo calendar

2012-2014: Outreach Officer of the UIUC registered students' organization Red Bison; my role was to engage with the student community to increase involvement with our organization's prairie restoration activities, and to participate in native planting and invasive species removal projects

2003-2009—Drums, musical arrangement, lyrics, and artwork for studio recordings and live performances in several bands representing a variety of musical styles.

• 2011—Drums, arrangements, lyrics, and artwork on Eos EP by 'Solecism'