## Jessica L. Burnett

##### Urban Ecology | Open Science | Computational Ecology

## Education

**University of Nebraska-Lincoln in Lincoln, NE**  
    Ph.D. Natural Resource Sciences with specialization in Applied Ecology, expected 2019  
**University of Florida in Gainesville, FL**  
    M.Sc. Wildlife Ecology and Conservation (2015)  
    B.Sc. Wildlife Ecology and Conservation (2013)

### Professional Appointments

**Graduate Research Assistant** (2015 - )  
Nebraska Cooperative Fish & Wildlife Research Unit | University of Nebraska-Lincoln  
\* Explore methods for detecting and predicting regime shifts on long-term and spatially explicit data.  
\* Identify indicator species for predicting ecosystem regime shifts. \* Communication with local and international collaborators.  
\* Work with military base scientists to gather data.  
\* Write quarterly reports for Department of Defense.

**Graduate Research Assistant** (2013 - 2015)  
Department of Wildlife Ecology and Conservation | University of Florida \* Used open-source data to monitor invasive species' population trends.  
\* Developed occupancy models of non-native bird species in urban areas. \* Teaching assistant for courses *Wildlife Population Ecology*, *Wildlife Issues in a Changing World*, and *Biodiversity Conservation: Global Perspectives*

**GIS and Avian Ecology Intern** (2013)  
Fish and Wildlife Research Institute | Florida Fish and Wildlife Research Conservation Commission \* Investigated effects of agriculture and urbanization on American Kestrel (*Falco sparverius*) nest success.

**Research Assistant** (2012-2013)  
Avian Ecology and Conservation Lab | University of Florida \* Investigated alignment of predation risk perception and predation risk of small forest birds.  
\* Managed seasonal bird banding database and banding supplies.

**Smithsonian Fellow and Florida Crew Leader** (2011-2013)  
Neighborhood Nestwatch Program | Smithsonian Migratory Bird Center \* Targeted capture and banding of select species in participants' backyards.  
\* Banding demonstrations at local youth organizations.  
\* Organized and trained banding technicians.

**Project Volunteer** (2012)  
Ordway Lab of Ecosystem Conservation | Univeristy of Florida \* Transcribed voice-recorded, behavioral foraging data.  
\* Identified louse from lowland manakins and flycatcher specimens.

### Peer-reviewed Publications

[1] **Burnett, J.L.**, Moulton, M.P. 2015. Recent trends in House Sparrow (*Passer domesticus*) distribution and abundance in Gainesville, Alachua County, Florida. *Florida Field Naturalist* 43(4):167-172.

[2] **Burnett, J.L.**, Sieving, K.E. Songbird distress call as a detection enhancement method and application to Red-shouldered Hawks (*Buteo lineatus*). Accepted in *Florida Field Naturalist* pending revisions.

[3] **Burnett, J.L.**, Allen, C.R., Brown, M.B., and Roberts, C.R. Eurasian Tree Sparrow (*Passer montanus*) range expansion in North America. Accepted in *Biological Invasions* pending revisions.

[4] Allen, C.R., Birge, H.B., Bartlet-Hunt, S.L., Bevans, R.A., **Burnett, J. L.** , Cosens, B.A., Cai, X., Garmestani, A.S., Linkov, I., Scott, E.A., Solomon, M.D., and Uden, D. Avoiding decline: Fostering resilience and sustainability in midsize cities. Under review at *Sustainability*.

### Service

#### At the University of Nebraska-Lincoln

2016-         Founder & President, Natural Resources Diversity Initiative, University of Nebraska-Lincoln  
2016-         Liaison, [Faculty Advisory Committee](http://snr.unl.edu/employeeinfo/people/committee/facultyadvisory.asp), School of Natural Resources, University of Nebraska-Lincoln  
2016          Organizer, Association for Women in Science [Mentor Workshop](http://snr.unl.edu/registration/AWISMentor/MentorMenteeRegistrationAttendanceCap.aspx?utm_source=Google&utm_medium=email&utm_term=&utm_content=&utm_campaign=AWIS+Workshop), University of Nebraska-Lincoln  
2016          Faculty Search Committee, [Urban and Community Forester](http://wfscjobs.tamu.edu/jobs/urban-and-community-forestry-professor-of-practice-university-of-nebraska-lincoln/), University of Nebraska-Lincoln  
2016          [Seminar Coordinator](http://unlcms.unl.edu/snr/gsa/snr-gsa-seminar-coordinators), School of Natural Resources, University of Nebraska-Lincoln  
2015-16    Department Representative Representative, Graduate Student Association, University of Nebraska-Lincoln  
2015          Founder, [Affiliate Chapter](http://www.awis.org/group/unl) of the Association for Women in Science, University of Nebraska-Lincoln  
####To the Profession  
2016-         Reviewer, Wilson Journal of Ornithology  
2016          Planning Committee for [Inclusive Ecology Section](http://www.esa.org/inclusive-ecology/), Ecological Society of America  
2015-16    Liaison, [Urban Ecosystem Ecology Section](http://www.esa.org/urbanecology/), Ecological Society of America

### Grants

#### Research

2013          IFAS Research Internship for Undergraduates, University of Florida, **$2,200**  
2013          Ordway-Swisher Biological Station Undergraduate Research, University of Florida, **$550**  
####Travel  
2016          [Nelson Memorial Fellowship](http://newsroom.unl.edu/announce/snr/5519/31162), Univeristy of Nebraska-Lincoln, **$900**  
2016          Center for Great Plains Studies, Univeristy of Nebraska-Lincoln, **$750**  
2016          American Ornithologists' Union, **$250**  
2015          NSF Diversity Award, Southeastern Ecology and Evolution Conference, **$650**  
2015          Department of Wildlife Ecology and Conservation, University of Florida, **$250**  
2015          Graduate Student Council, University of Florida, **$350**  
2015          Office of Research University of Florida, **$500**  
2014          Department of Wildlife Ecology and Conservation, University of Florida, **$250**  
2013          Office of Dean, Institute of Food and Agricultural Sciences, University of Florida, **$750**

#### Membership

2013          American Ornithologists' Union Undergraduate Student Membership Award

### Honors & Awards

2016-         AAAS/Science Program for Excellence in Science Award  
2016-18     University of Nebraska Center for Great Plains Studies [Graduate Fellow](http://www.unl.edu/plains/graduate-fellows-program)  
2015-18    [Othmer Recruitment Fellowship](http://www.unl.edu/gradstudies/prospective/money/fellowships), University of Nebraska-Lincoln, **$24,000**  
2015-         [Resilience Alliance](http://www.resalliance.org/) Young Scholar  
2014          2nd place, School of Natural Resources [Elevator Speech](http://snr.unl.edu/event/elevatorspeechcontest/index.asp?utm_source=google&utm_medium=web&utm_term=&utm_content=&utm_campaign=website) Competition, **$300**