

# Jessica L. Burnett

Computational Ecology | Macroecology | Regime Shifts

## Education

University of Nebraska-Lincoln in Lincoln, NE

Ph.D. (*expected* 2019) Natural Resource Sciences and Applied Ecology

University of Florida in Gainesville, FL

M.Sc. (2015) Wildlife Ecology and Conservation

B.Sc. (2013) Wildlife Ecology and Conservation

## Peer-reviewed publications

1. Donovan, V.M., **J.L. Burnett**, C.H. Bielski, H.E. Birge, R. Bevans, D. Twidwell, and C.R. Allen. (2018) Social-ecological landscape patterns predict woody encroachment from native tree plantings in a temperate grassland *Ecology and Evolution* 8(19): 9624-9632 DOI:10.1002/ece3.4340
2. **Burnett, J.L.**, K.L. Pope, A. Wong, C.R. Allen, D.M. Haak, B.J. Stephen, and D.R. Uden. 2018. Thermal tolerance limits of the invasive Chinese mysterysnail *Bellamya chinensis* and implications for management“. *American Malacological Bulletin* 36(1): 140-144 DOI:10.4003/006.036.0106
3. Roberts, C.P., D. Twidwell, **J.L. Burnett**, V.M. Donovan, C. Wonkka, C.H. Bielski, A.S. Garmestani, D.G. Angeler, T. Eason, B.W. Allred, M.O. Jones, D.E. Naugle, S. Sundstrom, C.R. Allen, (2018) Early warnings for state transitions. *Rangeland Ecology and Management* DOI:10.1016/j.rama.2018.04.012
4. La Sorte, F.A., C.A. Lepczyk, **J.L. Burnett**, A. Hurlbert, M. Tingley, and B. Zuckerberg. 2018. Opportunities and challenges for big data ornithology. *The Condor* 120(2): 414-426 DOI:0.1650/CONDOR-17-206.1
5. Chuang, W.C., A.S. Garmestani, T. Eason, T.L. Spanbauer, H.B. Fried-Peterson, C. Roberts, S. Sundstrom, **J.L. Burnett**, D. G. Angeler, B. Chaffin, L. Gunderson, D. Twidwell, C.R. Allen. 2018. Enhancing quantitative approaches for assessing ecological and community resilience. *Journal of Environmental Management* 213: 353-362 DOI:10.1016/j.jenvman.2018.01.083
6. **Burnett, J.L.**, C.R. Allen, C.P. Roberts, M.Bomberger Brown, and M.P. Moulton. 2017. Eurasian Tree Sparrow (*Passer montanus*) range expansion in North America. *Biological Invasions* 19(1): 5-9 DOI:10.1007/s10530-016-1273-4
7. **Burnett, J.L.** and K.E. Sieving. 2016. Songbird distress call as a detection enhancement method and application to Red-shouldered Hawks (*Buteo lineatus*). *Florida Field Naturalist* 44(4):157-168
8. C.R. Allen, H.E. Birge, S.L. Bartlet-Hunt, R.A. Bevans, **J.L. Burnett**, B.A. Cosens, X. Cai, A.S. Garmestani, I. Linkov, E.A. Scott, M.D. Solomon, and D.R. Uden. 2016. Avoiding decline: Fostering resilience and sustainability in midsize cities. *Sustainability* 8(9):844-868 DOI:10.3390/su8090844
9. **Burnett, J.L.** and M.P. Moulton. 2015. Recent trends in House Sparrow (*Passer domesticus*) distribution and abundance in Gainesville, Alachua County, Florida. *Florida Field Naturalist* 43(4):167-172

## First-authored manuscripts under review

1. **Burnett, J.L.**, R. Wilcox, B. Stephen, D. Haak, D. Uden, C.R. Allen, and K. Pope. Shell strength does not limit predation of an invasive snail species (*Bellamya chinensis*) by native fish. *under review at*

## First-authored manuscripts in preparation (available upon request)

1. **Burnett, J.L.**, N.B. Price, A.J. Tyre, T.J. Hefley, T. Eason, C.R. Allen, and D. Twidwell. A guide to Fisher Information for ecologists.
2. **Burnett, J.L.**, N.B. Price, C.R. Allen, B.D. Fath, E. Rovenskaya, D. Twidwell, A.J. Tyre, P. Zebrowski. Distance travelled: using Pythagorean's theorem to track ecosystem trajectory and abrupt change.
3. **Burnett, J.L.**, Z. Warren, M. Podebrovska, B. Dueker, K. Lamke, B. Seguin, D. Twidwell, and C.R. Allen. Sexual size dimorphism in mammalian communities of mediterranean Australian regions.
4. **Burnett, J.L.**, L. Wszola, N. Mirochnitchenko, E. Stuber, M. Bomberger Brown, C.R. Allen, D. Twidwell, and J. Carroll. Large-scale crop patterns influence Gray Partridge (*Perdix perdix*) site occupancy in North America.

## Select Honors & Awards

2017-18	Fling Fellowship, University of Nebraska-Lincoln	<b>\$20,000</b>
2016-18	University of Nebraska Center for Great Plains Studies Graduate Fellow	
2016-	AAAS/Science Program for Excellence in Science Award 2016	2nd place, School of Natural Resources Elevator Speech Competition
		<b>\$300</b>
2016-18	Resilience Alliance Young Scholar, The Resilience Alliance	
2015-18	Othmer Fellowship, University of Nebraska-Lincoln	<b>\$24,000</b>

## Grants

### *for research*

2013	IFAS Extension Internship for Undergraduate Research, University of Florida	<b>\$2,200</b>
2013	Ordway-Swisher Biological Station Undergraduate Research, University of Florida	<b>\$550</b>

### *for travel*

2017	Nelson Memorial Fellowship, University of Nebraska-Lincoln	<b>\$695</b>
2017	Kellogg Biological Station, Michigan State University and Big Ten Academic Alliance	<b>\$500</b>
2016	Nelson Memorial Fellowship, University of Nebraska-Lincoln	<b>\$900</b>
2016	Center for Great Plains Studies, University of Nebraska-Lincoln	<b>\$750</b>
2016	American Ornithologists' Union	<b>\$250</b>
2015	NSF Diversity Award, Southeastern Ecology and Evolution Conference	<b>\$650</b>
2015	Department of Wildlife Ecology and Conservation, University of Florida	<b>\$250</b>
2015	Graduate Student Council, University of Florida	<b>\$350</b>
2015	Office of Research University of Florida	<b>\$500</b>
2014	Department of Wildlife Ecology and Conservation, University of Florida	<b>\$250</b>
2013	Office of the Dean, Institute of Food and Agricultural Sciences, University of Florida	<b>\$750</b>

### *for community outreach*

2015	Outdoor Education Program, Reichert House, Gainesville Police Department, FL	<b>\$1,200</b>
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## Recent Service

### *at the University of Nebraska-Lincoln*

2018- Natural Resources Diversity Initiative committee, University of Nebraska-Lincoln  
2017 Key player in achieving institutional membership to the Association for Women in Science  
2016- Student Representative, Faculty Advisory Committee, School of Natural Resources  
2016- Student Representative, Digital Team, School of Natural Resources  
2016 Organizer, Association for Women in Science Mentor Workshop  
2016 Seminar Coordinator, School of Natural Resources  
2015-16 Founder & President, Natural Resources Diversity Initiative student group  
2015-16 Department Representative Representative, Graduate Student Association  
2015 Founder, Affiliate Chapter of the Association for Women in Science

### *to the profession*

2016 Contributor to founding documents, Committee for Inclusive Ecology Section, ESA  
2016- Reviewer, Wilson Journal of Ornithology  
2015-16 Liaison, Urban Ecosystem Ecology Section, ESA