

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. **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
2. 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
3. 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
4. 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
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	\$20,000
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
		\$300
2016-18	Resilience Alliance Young Scholar, The Resilience Alliance	
2015-18	Othmer Fellowship, University of Nebraska-Lincoln	\$24,000

Grants

for research

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

for travel

2017	Nelson Memorial Fellowship, University of Nebraska-Lincoln	\$695
2017	Kellogg Biological Station, Michigan State University and Big Ten Academic Alliance	\$500
2016	Nelson Memorial Fellowship, University of Nebraska-Lincoln	\$900
2016	Center for Great Plains Studies, University 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 the Dean, Institute of Food and Agricultural Sciences, University of Florida	\$750

for community outreach

2015	Outdoor Education Program, Reichert House, Gainesville Police Department, FL	\$1,200
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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