

# Stephen Ferguson

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## Education

2012	B.A., Biology	College of Wooster
2017	Ph.D., Biology	University of Memphis

## Research and Professional Experience

2017 –	Endeavour Research Fellow, Dept. of Environment & Agriculture, Curtin University
2016-17	Graduate Assistant, Dept. of Biological Sciences, University of Memphis
2012-16	Van Vleet Doctoral Fellow, Dept. of Biological Sciences, University of Memphis
2015	Visiting Scientist, Dept. of Biological Sciences, Macquarie University
2011	NSF Research Experience for Undergraduates (REU), Indiana University

## Publications

5. **Ferguson, S.M.** and S.J. Schoech. *Submitted*. Unusual calls suggest vocal learning in female Florida Scrub-Jays (*Aphelocoma coerulescens*). *Wilson Journal of Ornithology*.
4. Small, T.W., S.E. Bebus, E.S. Bridge, E.K. Elderbrock, **S.M. Ferguson**, B.C. Jones, S.J. Schoech. 2017. Stress-responsiveness influences baseline glucocorticoid values: revisiting the under 3 min sampling rule. *General and Comparative Endocrinology*. 247: 152-165. doi: 10.1016/j.ygcen.2017.01.028
3. Jones, B.C., S.E. Bebus, **S.M. Ferguson**, P.W. Bateman, S.J. Schoech. 2016. The glucocorticoid response in a free-living bird predicts whether long-lasting memories fade or strengthen with time. *Animal Behaviour*. 122: 157-168. doi: 10.1016/j.anbehav.2016.10.009
2. **Ferguson, S.M.**, E.K. Elderbrock, B.C. Jones, S.J. Schoech. 2016. A female-female same-sex pair of Florida scrub-jays (*Aphelocoma coerulescens*). *Florida Field Naturalist*. 44: 63-65.
1. Rosvall, K.A., D.G. Reichard, **S.M. Ferguson**, D.J. Whittaker, E.D. Ketterson. 2012. Robust behavioral effects of song playback in the absence of testosterone or corticosterone release. *Hormones and Behavior*. 62: 418-425. doi: 10.1016/j.yhbeh.2012.07.009

## Talks

**Ferguson, S.M.** and S.J. Schoech. Conspecific call playback leads to an exaggerated adrenocortical response to handling stress in Florida scrub-jay (*Aphelocoma coerulescens*) nestlings. Society for Integrative and Comparative Biology Annual Meeting, New Orleans, LA. Jan 2017.

**Ferguson, S.M.** and S.J. Schoech. Local dialects of a geographically variable, female-specific call elicit greater aggression. North American Ornithological Conference 2016, Washington, D.C. August 2016.

Jones, B.C., S.E. Bebus, **S.M. Ferguson**, P.W. Bateman, S.J. Schoech. Learning about predators: Florida scrub-jays (*Aphelocoma coerulescens*) form lasting memories of a single predatory encounter. North American Ornithological Conference 2016, Washington, D.C. August 2016.

**Ferguson, S.M.** and S.J. Schoech. Conspecific aggression does not initiate steroid release in Florida scrub-jay nestlings. Animal Behavior Society Annual Meeting, Columbia, MO. July 2016.

**Ferguson, S.M.**, B.C. Jones, S.J. Schoech. Low corticosterone response Florida scrub-jays (*Aphelocoma coerulescens*) react more aggressively to territorial call playback. Behaviour 2015, Cairns, QLD, Australia. Aug 2015.

Jones, B.C., S.E. Bebus, **S.M. Ferguson**, P.W. Bateman, S.J. Schoech. Corticosterone exposure and the retention of long-lasting memory in free-living Florida scrub-jays (*Aphelocoma coerulescens*). Behaviour 2015, Cairns, QLD, Australia. Aug 2015.

**Ferguson, S.M.**, B.C. Jones, S.J. Schoech. It's not what you say, it's when you say it: the role of context in songbird aggression. Tennessee Ornithological Society Meeting, Manchester, TN. Oct 2014.

**Ferguson, S.M.**, B.C. Jones, S.J. Schoech. Equality of the sexes: Territory defense in the Florida scrub-jay. Animal Behavior Society Annual Meeting, Princeton, NJ. Aug 2014.

**Ferguson, S.M.**, T.W. Small, S.J. Schoech. We gotta get out of this place: Relationships between corticosterone and dispersal distance in the Florida scrub-jay (*Aphelocoma coerulescens*). Society for Integrative and Comparative Biology Annual Meeting, Austin, TX. Jan 2014.

**Ferguson, S.M.**, K.A. Rosvall, D.G. Reichard. Song playback elicits aggression but not testosterone or corticosterone release in male dark-eyed juncos. Association of Field Ornithologists Annual Meeting. Archbold Biological Station, Venus, FL. Mar 2013.

## Posters

**Ferguson, S.M.** and S.J. Schoech. Now you're speaking my language! Florida scrub-jays (*Aphelocoma coerulescens*) are more aggressive toward local variants of a geographically variable, female-specific call. Society for Integrative and Comparative Biology Annual Meeting, New Orleans, LA. Jan 2017.

**Ferguson, S.M.** and S.J. Schoech. A dual-speaker playback experiment in a non-duetting, co-defending passerine. Society for Integrative and Comparative Biology Annual Meeting, Portland, OR. Jan 2015.

**Ferguson, S.M.** and S.E. Lynn. Exogenous corticosterone reduces circulating testosterone but not courtship behavior in male zebra finches (*Taeniopygia guttata*). Society for Integrative and Comparative Biology Annual Meeting, San Francisco, CA. Jan 2013.

**Ferguson, S.M.,** D.G. Reichard, K.A. Rosvall, D.J. Whittaker, E.D. Ketterson. Behavioral and physiological responses to territorial intrusions of short- and long-range song in male dark-eyed juncos (*Junco hyemalis*). Society for Integrative and Comparative Biology Annual Meeting, Charleston, SC. Jan 2012.

**Ferguson, S.M.,** D.G. Reichard, K.A. Rosvall, D.J. Whittaker, E.D. Ketterson. Differential effects of short- and long-range song on behavior and testosterone in a male songbird. Midwest/Great Lakes Undergraduate Research Symposium in Neuroscience, Wooster, OH. Oct 2011.

### **Grants (Total: USD \$19,221; AUD \$24,500)**

2017	Australia Dept. of Education & Training Endeavour Postdoctoral Fellowship	A\$24,500
2016	Animal Behavior Society Student Research Grant	\$1,000
	Eastern Bird Banding Association Memorial Grant	\$750
	Georgia Ornithological Society Terrell Award	\$2,600
2015	NSF East Asia-Pacific Summer Institute Fellowship	\$5,000
	Australian Academy of Science supplement	\$2,765
	Wilson Ornithological Society Paul A. Stewart Grant	\$1,000
	British Ornithologists' Union Small Research Grant	\$1,035
	Georgia Ornithological Society Terrell Award	\$3,750
2013	Tennessee Ornithological Society Research and Conservation Grant	\$600
2011	The Henry J. Copeland Fund for Independent Study, College of Wooster	\$721

### **Travel Grants (Total: \$4,342)**

2017	College of Arts & Sciences Travel Enrichment Award, Univ. of Memphis	\$175
	Dept. of Biological Sciences Travel Award, University of Memphis	\$500
2016	American Ornithologists' Union Travel Award	\$215
	Dept. of Biological Sciences Travel Award, University of Memphis	\$500
	Student Government Association Travel Award, University of Memphis	\$402
2015	College of Arts & Sciences Travel Enrichment Award, Univ. of Memphis	\$350
2013	College of Arts & Sciences Travel Enrichment Award, Univ. of Memphis	\$750
	Dept. of Biological Sciences Travel Award, University of Memphis	\$500
2012	Dept. of Biological Sciences Travel Award, University of Memphis	\$500
2011	College of Wooster Student Travel Benefit	\$450

### **Honors and Fellowships**

2012-16	Van Vleet Memorial Doctoral Fellowship, University of Memphis
2013	American Ornithologists' Union Student Membership Award
2009-12	Beta Beta Beta Biological Honor Society, Xi Nu chapter Treasurer (2010-11); President (2011-12)

### **Invited Talks**

2017	Georgia Ornithological Society Spring Meeting, Unicoi State Park, GA
	Memphis Tennessee Ornithological Society Monthly Meeting, Memphis, TN
	West Virginia Wesleyan College, Dept. of Biology & Env. Science, Buckhannon, WV

College of Wooster, Dept. of Biology, Wooster, OH

2015 Deakin University, Centre for Integrative Ecology, Waurn Ponds, VIC, Australia

### **Ad Hoc Reviewer**

*Ecological Applications*

### **Teaching Experience**

Co-Lecturer, University of Memphis

BIOL 4640/6640 - Ornithology

Teaching Assistant, University of Memphis,

BIOL 3730 – Vertebrate Physiology

BIOL 2011 – Anatomy & Physiology I

BIOL 2021 – Anatomy & Physiology II

Teaching Apprentice, College of Wooster

BIOL 202 – Gateway to Ecology, Evolution, and Organismal Biology lab

BIOL 344 – Comparative Animal Physiology Lab

BIOL 377 – Behavioral Endocrinology Lab

First-Year Seminar – Raging Hormones: Science, Sex, and Society

### **Students Mentored**

2015 Joseph Gross, Rhodes College

Marissa Pensirikul, University of West Florida

2014 Mary Mack Gray, Archbold Biological Station (currently USFWS)

2013 John Malanchuk, Rhodes College (currently SUNY Plattsburgh)

### **Professional Societies and Memberships**

American Ornithological Society

Animal Behavior Society

Society for Integrative and Comparative Biology

Division of Comparative Endocrinology Student/Post-doc Rep, 2017 – present

### **Service and Outreach**

2017 31<sup>st</sup> National Conference on Undergraduate Research Session Moderator

2012-16 Volunteer Naturalist, Strawberry Plains Audubon Center, Holly Springs, MS

2014 Judge, Heartland Science and Engineering Fair, South Florida State College

2013 Judge, Lake Placid Elementary School Science Fair, Lake Placid, FL

Volunteer, Hatchery and Tropical Bird House, Memphis Zoo, Memphis, TN

2012 Melrose Elementary School Science Outreach, Wooster, OH

2011-12 College of Wooster Community Science Day, Wooster, OH