

Allison E. Johnson

406 Manter Hall
School of Biological Sciences
University of Nebraska-Lincoln
Lincoln, NE 68588

email: aj.petrochelidon@gmail.com or aejohnson@uchicago.edu • phone: 308-631-6644

website: <http://www.allisonelainejohnson.weebly.com>

EDUCATION

- 2016 Ph. D.—University of Chicago, Department of Ecology & Evolution
2013 M. S.—University of Chicago, Department of Ecology & Evolution
2010 B. A.—St. Olaf College, Biology

ACADEMIC POSITIONS

- 2018-Present Postdoctoral Researcher—University of Nebraska-Lincoln, School of Biological Sciences

FELLOWSHIPS & AWARDS

FELLOWSHIPS

- 2010-2016 Dubner Graduate Fellowship, University of Chicago

AWARDS

- 2015 Best Student Paper, Birds Australia, Australasian Ornithological Conference, Adelaide, South Australia
2006-2010 Buntrock Presidential Scholarship, St. Olaf College
2009 Dean's List, St. Olaf College
2007-2009 Academic Honors, St. Olaf College
2004 Youth Conservation Award, Nebraska Wildlife Federation

RESEARCH & WORK EXPERIENCE

RESEARCH EXPERIENCE

- 2012-Present **Biology and behavior of Maluridae sp., South Australia, University of Nebraska-Lincoln, University of Chicago, IL**
Collaborators/Supervisors: Daizaburo Shizuka, Stephen Pruett-Jones
- 2016-2018 **Paternity of the Belding's ground squirrel, University of Chicago, IL**
Collaborator/Supervisor: J Mateo, University of Chicago
- 2013-2015 **Social behavior and morphological evolution in swallows (Hirundinidae), University of Chicago, IL**
Collaborators: M B Brown (University of Nebraska-Lincoln) & J Mitchell (University of Michigan)
- 2011-2012 **Evolution of plumage dichromatism in fairy-wrens (Maluridae), University of Chicago, IL**
Collaborators: J J Price (St. Mary's College of Maryland) & S Pruett-Jones (University of Chicago)

- 2007-2010 **Facial pattern variation as a kin recognition cue in the cliff swallow (*Petrochelidon pyrrhonota*), St. Olaf College, MN**
Supervisor: S Freedberg (St. Olaf College)
- 2009 **Field Technician, Nesting location and its effects on sex ratio in snapping turtles (*Chelydra serpentina*), St. Olaf College, MN**
Supervisor: S Freedberg (St. Olaf College)
- 2008-2009 **Lab Assistant/Intern, Hatchling sex ratio variation in the snapping turtle (*C. serpentina*), St. Olaf College, MN**
Supervisor: S Freedberg (St. Olaf College)
- 2006-2007 **Field Technician, Coloniality in the cliff swallow (*P. pyrrhonota*), Cedar Point Biological Station, NE**
Supervisor: C R Brown (University of Tulsa)

MUSEUM EXPERIENCE

- 2016-Present **Volunteer Museum Specimen Preparer, University of Michigan, MI**
Supervisor: J. Hinshaw (University of Michigan)
- 2007 **Museum Specimen Preparer, Cedar Point Biological Station, NE**
Supervisor: C R Brown (University of Tulsa)

PEER-REVIEWED SCIENTIFIC ARTICLES

PUBLISHED OR IN PRESS

- Johnson A E, Masco C, Pruett-Jones S (2018)** Song recognition and heterospecific associations between 2 fairy-wren species (Maluridae). *Behavioral Ecology*, 29: 821-832.
- Johnson A E, Pruett-Jones S (2018)** Reproductive promiscuity in the variegated fairy-wren: an alternative reproductive strategy in the absence of helpers? *Animal Behaviour*, 139: 171-180.
- Brouwer L, van de Pol M, Aranzamendi N H, Bain G, Baldassare D T, Brooker L C, Brooker M G, Colombelli-Négrel D, Enbody E, Gielow K, Hall M L, **Johnson A E**, Karubian J, Kingma S A, Kleindorfer S, Louter M, Mulder R, Peters A, Pruett-Jones S, Tarvin K A, Thrasher D J, Varian-Ramos C W, Webster M, Cockburn A (2017). Multiple hypotheses explain variation in extra-pair paternity at different levels in a single bird family. *Molecular Ecology*, 26: 6717-6729.
- Johnson A E, Mitchell J, Brown M B (2016)** Convergent evolution in social swallows (Aves: Hirundinidae). *Ecology and Evolution*, 7: 550-560.*
- Johnson A E, Freedberg S (2014)** Variable facial plumage in juvenile cliff swallows: a potential offspring recognition cue? *Auk* 131: 121-128.
- Johnson A E, Price J J, Pruett-Jones S (2013)** Different modes of evolution in males and females generate dichromatism in fairy-wrens (Maluridae). *Ecology and Evolution* 3: 3030-3046. *

Padhi A, Moore A J, Brown M B, Foster J E, Pfeffer M, Gaines K P, O'Brien V A, Strickler S A, **Johnson A E**, Brown C R (2008) Phylogeographical structure and evolutionary history of two Buggy Creek virus lineages in the western Great Plains of North America. *Journal of General Virology* 9: 2122-31.

IN REVIEW OR PREPARATION

Shizuka D, **Johnson A E**. Demographic and social processes shaping animal social networks. In review. *Ecology Letters*.

Welklin J, **Johnson A E**. Introduction to the Fairywren Project: Expanding long-term data through citizen science in Australia's fairywrens. In preparation for *Emu*.

Meyer D, **Johnson A E**, Pruett-Jones S. Helpers at the nest allow cooperatively breeding fairy-wrens to provision through predation stress. In preparation for *Emu*.

Johnson A E, Pruett-Jones S. Helping behavior in the cooperatively breeding variegated fairy-wren: sex specific effects of auxiliary members. In preparation for *Behavioral Ecology and Sociobiology*.

* Indicates a paper was chosen for the journal cover.

CONTRIBUTIONS TO PEER-REVIEWED SCIENTIFIC ARTICLES

ILLUSTRATIONS

Confusiusornis sanctus illustration for Figure 2: Milius S "The lucky ones" *Science News Magazine*. 4 Feb 2017, pp 26-27.

Finch illustration for Figure 1: Singal S, Leffler E M, Sannareddy K, Turner I, Venn O, Hooper D M, Strand A I, Li Q, Raney B, Balakrishnan C N, Griffith S C, McVean S C, Przeworski M (2015) Stable recombination hotspots in birds. *Science* 350: 928-932.

Cover illustration: **Johnson A E**, Price J J, Pruett-Jones S (2013) Different modes of evolution in males and females generate dichromatism in fairy-wrens (Maluridae). *Ecology and Evolution* 3: 3030-3046.

Chloris sp. illustration for Figure 1: Hooper D M, Price, T D (2017) Chromosomal inversion differences correlate with range overlap in passerine birds. *Nature Ecology & Evolution* doi:10.1038.s41559-017-0284-6.

POPULAR ARTICLES

Johnson A E, Welklin J (2018) The Fairywren Project: Teaming up with eBirders to capture variation in Australia's fairywrens. eBird Australia News: <https://ebird.org/australia/news/the-fairywren-project-teaming-up-with-ebirders-to-capture-variation-in-australias-fairy-wrens>

Johnson A E (2018) Cross-species song recognition in fairy-wrens. *Biosphere* Issue 33: 28-39.

PRESS COVERAGE OF PEER-REVIEWED SCIENTIFIC ARTICLES

2018

Knowledge@UChicago: <https://knowledge.uchicago.edu/handle/11417/225>

Nebraska Today: <https://news.unl.edu/newsrooms/today/article/distinguished-company-birds-can-recognize-members-of-other-species/>

Science Daily: <https://www.sciencedaily.com/releases/2018/05/180521143827.htm>

EurekAlert: https://www.eurekalert.org/pub_releases/2018-05/uocm-fd052118.php
ZME Science: <https://www.zmescience.com/science/biology/australian-wren-friends-2384251/>
Phys.org: <https://phys.org/news/2018-05-birds-species-cooperate.html>
Science Briefs: <http://www.sciencebriefss.com/life-news/cooperation-by-birds-from-different-species>
MSN.com: <https://www.msn.com/en-au/video/lifestyle/fairy-wrens-recognize-individual-birds-from-other-species-cooperate-for-mutual-benefit-study-finds/vp-AAxByiy>
Labroots: <https://www.labroots.com/trending/plants-and-animals/8830/birds-recognize-individuals-different-species>

RESEARCH GRANTS

RESEARCH GRANTS

2016	Experiment Ornithology Grant Challenge	\$3806
2013	American Ornithologist's Union Student Research Award	\$2370
2013	Hinds Fund, University of Chicago	\$1000
2012	Hinds Fund, University of Chicago	\$1700
2008	Berhent's Research Grant, St. Olaf College	\$400

TRAVEL AWARDS

2018	International Society for Behavioral Ecology Travel Award	\$500
2018	American Ornithological Society Travel Award	\$295
2016	North American Ornithological Conference Travel Award	\$165
2014	Biological Sciences Division Travel Award, University of Chicago	\$500

PRESENTATIONS

ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS

International Society for Behavioral Ecology, 8/2018. **Johnson A E**. Delayed dispersal in cooperatively breeding fairy-wrens: a complicated story.

Welklin J, **Johnson A E**. Fairywren Project: Capturing the variation in Australia's fairywrens through the eyes of citizen scientists.

American Ornithological Society, Tuscon, AZ, 4/2018. **Johnson A E**. Cooperative breeding in the variegated fairy-wren: is promiscuity an alternative strategy in the absence of help at the nest?

American Ornithological Society, Tuscon, AZ, 4/2018. Pruett-Jones S, **Johnson A E**. Experimental test of delayed dispersal in fairy-wrens.

American Ornithology, Lansing, MI, 8/2017. **Johnson A E**. Early Professionals Symposium: Causes and consequences of sociality: from morphology to heterospecific social groups.

North American Ornithological Conference, Washington, D. C., 7/2016. **Johnson A E**, Pruett-Jones S. Heterospecific sociality mediated by song discrimination in fairy-wrens (*Malurus sp.*).

Australasian Ornithological Conference, Adelaide, SA, Australia, 11/2015. **Johnson A E**, Pruett-Jones S. Experimental evidence of heterospecific stranger vs. neighbor discrimination in fairy-wrens (Aves).

Australasian Ornithological Conference, Adelaide, SA, Australia, 11/2015. Meyer D, **Johnson A E**. It takes a village: group size as a determining factor of maternal investment, feeding rate and fledgling success in the variegated fairy-wren (*Malurus lamberti*).

Animal Behaviour Society Meeting, Anchorage, AK, 6/2015. **Johnson A E**, Pruett-Jones S. Heterospecific coalitions mediated by song recognition in two fairy-wrens species.

International Society for Behavioral Ecology, New York, NY, 8/2014. **Johnson A E**, Masco C, Pruett-Jones S. Heterospecific recognition in fairy-wrens: cooperation in a competitive landscape.

American Ornithologist's Union and Cooper Ornithological Society Joint Meeting, Chicago, IL, 8/2013. **Johnson A E**, Price J J, Pruett-Jones S. Different modes of evolution in males and females generate dichromatism in fairy-wrens (Maluridae).

Wilson Ornithological Society and Cooper Ornithological Society Joint Meeting, Kearny, NE, 3/2011. **Johnson A E**, Freedberg S. Facial pattern variation may be a reliable kin recognition cue in cliff swallows, *Petrochelidon pyrrhonota*.

POSTER PRESENTATIONS AT SCIENTIFIC MEETINGS

Midstates Undergraduate Research Consortium, St. Louis, MO, 10/2009. **Johnson, A E**, Freedberg S. Among-colony genetic differentiation and group selection in the cliff swallow, *Petrochelidon pyrrhonota*.

Minnesota Academy of Sciences Undergraduate Meeting, Saint Paul, MN, 4/2009. **Johnson A E**, Wilkinson G, Holt A. Stable isotope analysis of food web structure in macroinvertebrate communities.

Ecological Society of America Meeting, Milwaukee, WI, 8/2008. Mullen SA, **Johnson A E**, Crumley A, Freedberg S, Schade J. Effect of nitrogen availability on spatial distributions of creosote bush (*Larrea tridentata*) in two desert ecosystems.

St. Olaf College Summer Research Symposium, Northfield, MN, 7/2008. **Johnson A E**, Debenport S, Freedberg S. Facial pattern variation and kin recognition in a colonial bird.

Wildlife Disease Association Conference, Estes Park, CO, 8/2007. Moore A T, O'Brien V A, **Johnson A E**, Brown M B, Brown C R. Dispersing cimicid vectors have low Buggy Creek Virus infection rates.

DEPARTMENTAL SEMINARS

Natural History Seminar Series, University of Chicago, Chicago, IL 4/2014. **Johnson A E**. Sociality in the variegated fairy-wren (*Malurus lamberti*).

Animal Behavior Seminar Series, University of Chicago, Chicago IL, 4/2012. **Johnson A E**. Sexual selection and cooperative breeding.

TEACHING EXPERIENCE

TEACHING ASSISTANT POSITIONS

UNIVERSITY OF CHICAGO

2017 Field Ecology (BIOS 23252), S Pruett-Jones

2015 Ecology and Evolution in the Southwest (lab and field school, BIOS 23232/23233), E Larsen

2015 Natural History of the American Deserts (lab and field school: BIOS 13111/13112), E Larsen

- 2015 Field Ecology (BIOS 23252), S Pruett-Jones
 2015 Animal Behavior (BIOS 23249), J Mateo
 2014 Ecology and Evolution in the Southwest (lab and field school, BIOS 23232/23233), E Larsen
 2014 Natural History of the American Deserts (lab and field school: BIOS 13111/13112), E Larsen
 2014 Animal Behavior (BIOS 23249), S Pruett-Jones
 2013 Ecology and Evolution in the Southwest (lab and field school, BIOS 23232/23233), E Larsen
 2013 Natural History of the American Deserts (lab and field school: BIOS 13111/13112), E Larsen
 2013 Field Ecology (BIOS 23252), S Pruett-Jones
 2011 Evolution and Ecology (BIOS 20197), S Allesina and J Coyne
 2011 Field Ecology (BIOS 23252), S Pruett-Jones
 2011 Ecology and the Environment (BIOS 13125), S Pruett-Jones

UNIVERSITY OF MICHIGAN BIOLOGICAL STATION

- 2012 Natural History and Evolution (EEB 392), S Pruett-Jones
 2010 Natural History and Evolution (EEB 392), S Pruett-Jones

ST. OLAF COLLEGE

- 2010 Vertebrate Biology (BIO 242), S Freedberg
 2009 Introduction to Biology (BIO 121), S Freuhling

CEDAR POINT BIOLOGICAL STATION, UNIVERSITY OF NEBRASKA

- 2008 Ornithology (BIOS 475), P Johnsgard

GUEST LECTURER

UNIVERSITY OF CHICAGO

- 2015 Field Ecology (BIOS 23252), *Adventures in field ecology*, S Pruett-Jones
 2015 Animal Behavior (BIOS 23249), *Sperm competition*, J Mateo
 2015 Animal Behavior (BIOS 23249), *Sexual selection*, J Mateo
 2013 Field Ecology (BIOS 23252), *Phylogenetic Reconstruction*, S Pruett-Jones
 2013 Field Ecology (BIOS 23252), *Studying mating systems*, S Pruett-Jones
 2011 Ecology and the Environment (BIOS 13125), *Biodiversity*, S Pruett-Jones
 2011 Ecology and the Environment (BIOS 13125), *Invasive species*, S Pruett-Jones
 2011 Ecology and the Environment (BIOS 13125), *Climate change*, S Pruett-Jones
 2011 Ecology and the Environment (BIOS 13125), *Extinction*, S Pruett-Jones
 2011 Field Ecology (BIOS 23252), *The colonial cliff swallow*, S Pruett-Jones

UNIVERSITY OF MICHIGAN BIOLOGICAL STATION

- 2012 Natural History and Evolution (EEB 392), *Mating systems*, S Pruett-Jones
 2012 Natural History and Evolution (EEB 392), *Relatedness and sociality*, S Pruett-Jones
 2010 Natural History and Evolution (EEB 392), *Sex determination and sex ratio*, S Pruett-Jones
 2010 Natural History and Evolution (EEB 392), *Relatedness and sociality*, S Pruett-Jones

GRADER

UNIVERSITY OF CHICAGO

- 2016 Tropical Ecology: Biodiversity and Human Impacts (BIOS 13126), E Larsen
 2016 The Public and Private Lives of Insects (BIOS 13140), E Larsen

STUDENT MENTORSHIP

- 2014-Present Ian Hoppe (field assistant)

2018	Megan Verner-Crist (field assistant)
2013-2017	Dylan Meyer (undergraduate student/field assistant/laboratory assistant)
2016	Eva Kinnebrew (laboratory assistant)
2015	Rey Ayon (graduate student)
2015	Kathryn LaPorte (undergraduate student/laboratory assistant)
2015	Niles Desmarais (field assistant)
2015	Jenny Uehling (undergraduate student/field assistant/laboratory assistant)
2014	Andrea Rummel (field assistant)
2013-2014	Kelle Urban (field assistant)
2013	Emily Geary (field assistant)
2012	Yi Ren (undergraduate student/field assistant)
2011	Peter Zaykoski (undergraduate student/field assistant)

PROFESSIONAL SERVICE

MANUSCRIPT REVIEWER

The Auk
Behavioral Ecology and Sociobiology
Ethology
Frontiers in Zoology
Scientific Reports
Wilson Journal of Ornithology

CONFERENCE SERVICE

2016	Room monitor and event volunteer, North American Ornithological Conference
2015	Session moderator, Animal Behavior Society Meeting
2014	Abstract review, International Society for Behavioral Ecology Meeting

DEPARTMENTAL SERVICE

2011-2015	Animal behavior reading group organizer, University of Chicago
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PROFESSIONAL SOCIETIES

2013-Present	American Ornithological Society
2016-Present	International Society for Behavioral Ecology
2013-2017	Wilson Ornithological Society
2014-2017	Animal Behavior Society
2014-2015	American Society of Naturalists
2014	British Ornithologist's Union

EDUCATIONAL/PUBLIC OUTREACH

2018-Present	Cofounder of Project Fairy-wren, a citizen science based research program, collaborator Joe Welklin
2015	Volunteer weekend organizer, "Biology of Fairy-wrens", Conservation Volunteers Australia, Blanchetown, SA, Australia
2015	Volunteer weekend organizer, "Biology of Sand Goannas", Conservation Volunteers Australia, Blanchetown, SA, Australia
2012-2015	Outreach speaker, Conservation Volunteers Australia, Blanchetown, SA, Australia
2014, 2015	Illustrator of animal mimicry coloring pages, Animal Behavior Society Meeting Outreach Fair

2015 Outreach fair presenter, Animal Behavior Society Meeting Outreach Fair, Anchorage, AK
2012 Presenter, Project Exploration's Sisters for Science, Chicago, IL
2009 Artist, photographer, and presenter, "Celebrating Darwin's Legacy," University of Nebraska, Great Plains Art Museum, Lincoln, NE
2007 Presenter, "The Galapagos Islands," Wildcat Audubon Society, Scottsbluff, NE
2006 Volunteer bird banding demonstrator, Spring Creek Prairie Audubon Center, Denton, NE
2006 Volunteer bird banding demonstrator, Wildcat Audubon Society, Gering, NE
2005 Volunteer art instructor, Geil Elementary School, Gering, NE
2004 Artist and opening speaker, "Lewis and Clark on the Great Plains: the Natural History of the Expedition of Discovery," Christleib Art Gallery, Lincoln, NE