

Department of Biology  
University of Oklahoma  
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Department of Ornithology  
Sam Noble Museum  
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Norman, OK, 73072, USA

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**EDUCATION:**

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Ph.D., Ecology and Evolutionary Biology  
University of Oklahoma (OU); Norman, OK  
PI: Matthew J. Miller

Aug. 2016 – Present

M.S., Biological Sciences  
Wright State University (WSU); Dayton, OH  
PI: Jeffrey L. Peters

May 2014 – Jul. 2016

B. A., Zoology & Latin American Studies  
Miami University (MU); Oxford, OH  
PI: Richard C. Moore

Aug. 2009 – May 2014

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**RESEARCH EXPERIENCE:**

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Sam Noble Oklahoma Museum of Natural History (Norman, OK)  
Dissertation title: *To be Determined*.

Aug. 2016 – present

Using next generation sequencing to ask questions associated with genomics of hybridization and speciation in the *Melanerpes* woodpecker complex. **Developing skills** in population genomics, **museum ornithology**, **avian field collection**, **avian tissue collection**, and **avian study skin preparation** for housing at the Sam Noble Oklahoma Museum of Natural History.

Wright State University (Dayton, OH)

May. 2014 – Jul. 2016

Thesis title: *Genomic signatures of population history in a pair of recently diverged Australian teal support strong selection on the Z- sex chromosome*.

Used next generation sequencing (ddRAD-seq) to generate >3,000 loci to scan across the Australian Teal genome for evidence of selection and gene flow. **Developed skills** in **next generation sequencing library preparation**, computer scripting (**Python, R, and Perl** for the purpose of large data manipulation) and **advanced bioinformatics**.

Miami University (Oxford, OH)

Dec. 2009 – Jun. 2013

Undergraduate research project: *The role of selection in Carica papaya genomic evolution*.

SNP genotyped autosomal loci and determined levels of divergence and signatures of selection in target loci along the pseudoautosomal boundary in *Carica papaya*. **Developed basic bench skills** associated with DNA sequencing. Also **developed basic skills in bioinformatics**.

The Jackson Laboratory (Bar Harbor, ME)

Jun. 2008 – Aug. 2008

Project title: *microRNA expression patterns in mouse lung development and cancer*.

Analyzed microRNA expression datasets. **Developed basic skills in data analysis**, and basic computer scripting (e.g., **Matlab**).

## PEER – REVIEWED PUBLICATIONS:

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Lappin F, Medart M, **Hawkins KK**, Moore RC. 2015. A polymorphic pseudoautosomal boundary in the *Carica papaya* sex chromosomes. ***Molecular Genetics and Genomics***, DOI: 10.1007/s00438-015-1000.

*In prep:*

Hawkins KK, Joseph L, Roshier DA, Peters JL. 2017. Genomic signatures of population history in a pair of recently diverged Australian Teal. Target Journal: *Evolution*.

## GRANTS, FELLOWSHIPS AND AWARDS:

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Sutton Ornithology Scholarship (\$3,200 Research)	2017
Chapman Fund- AMNH (\$2,500 Research)	2017
Loren G. Hill Fund Scholarship (\$3,000 scholarship)	2017
American Ornithologist's Union Student Travel Award (\$400)	2015
Summer Hughes Fellowship, MU (\$3,750 Stipend + Research)	2012
Undergraduate Summer Scholars, MU (\$3,600 Stipend + Research)	2015
Miami University Middletown Chemistry Department Award	2012
Choose Ohio First Bioinformatics Scholarship (\$9,000 Tuition)	2011-2013
Proctor and Gamble Research Award (\$700 Research)	2010
Undergraduate Research and Mentor Scholarship (\$22,500 Tuition)	2010-2013

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## TEACHING EXPERIENCE:

Ecology, Evolution and Diversity (OU freshman-level course) <i>Teaching assistant.</i>	Spring 2017
Human Physiology (OU sophomore-level course) <i>Teaching assistant.</i>	Fall 2016
Human Biology Lab (Clark State Community College, non-majors) <i>Adjunct Instructor</i>	Spring 2015
Introduction to Molecular Biology (WSU sophomore-level course) <i>Teaching assistant.</i>	Fall 2014, 2015 & Summer 2015, 2016
Introduction to Cell Biology (WSU sophomore-level course) <i>Teaching assistant.</i>	Spring 2015, 2016
Cell Biology (Miami University sophomore-level course) <i>Undergraduate teaching assistant.</i>	Aug. – Dec. 2010

## PRESENTATIONS AT PROFESSIONAL MEETINGS:

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**Hawkins KK**, Lavretsky P, Peters JL. *Selection drives fast sex-chromosome evolution in a pair of monochromatic / dichromatic Australian Teals*. 2016. Midwest Ecology and Evolution Conference, Oxford, OH.

**Hawkins KK**, Lavretsky P, Nelson JT, Peters, J.L. *Parallel molecular evolution on the Z-chromosome in species of ducks with parallel transition in sexual dichromatism / monochromatism*. 2015. American Ornithologists' Union / Cooper Ornithological Society Meeting, Norman, OK.

**Hawkins KK**, Lavretsky P, Peters JL. *Limited gene flow between two allopatric populations of mottled duck*. 2014. Ohio Avian Research Conference, Granville, OH.

**Hawkins KK**, Brown J, McDermott R, Moore RC. *The role of selection in Carica papaya genomic evolution*. Botanical Society of America Conference, 2012. Columbus, OH. *The role of selection in Carica papaya genomic evolution*. Botanical Society of America Conference, 2012. Columbus, OH

**Hawkins, K.K**, Brown J, McDermott R, Moore RC. *The role of selection in Carica papaya genomic evolution*. 2011. Undergraduate Research Forum, Oxford, OH

#### **SCIENTIFIC PRESENTATIONS AS A COLLABORATOR:**

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Peters JL, Lavretsky P, **Hawkins KK**, Nelson J. *Speciation with gene flow in Anas ducks*. 2016. North American Ornithological Conference. Washington, D.C.

Moore RC, Brown J, Lappin F, **Hawkins KK**, McDermott R. *Genomic conflict and the evolution of plant sex chromosomes*. Botanical Society of American Conference. 2013. New Orleans, LA.

Lappin F, Brown J, Weingartner L, **Hawkins KK**, McDermott R, Harkess A, Moore RC. *The investigation of selective sweeps within the Carica papaya X chromosome*. Botanical Society of America Conference, 2012. Columbus, OH

Brown J, Lappin F, Weingartner L, **Hawkins KK**, McDermott R, Harkess A, Moore RC. *Expanding our understanding of the evolution of the Carica papaya X and Y chromosomes*. Botanical Society of America Conference, 2012. Columbus, OH

Brown J, **Hawkins KK**, McDermott R, Moore RC. *The relationship between recombination and genomic diversity in Carica papaya*. Botanical Society of America Conference, 2012. Columbus, OH

#### **MUSEUM EXPEDITIONS:**

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##### *Expedition member:*

Jackson Co., OK, USA – Apr 2017  
SNOMNH Expedition near Jackson Co., OK (2 days)

Lubbock, TX, USA – Oct. 2016  
SNOMNH Expedition near Lubbock, TX and Dickens, TX (2 days)

Altus, OK, USA – Aug. 2016  
SNOMNH Expedition to Southern Oklahoma near the Red River (2 days)

Kingston, OK, USA – Aug. 2016  
SNOMNH Expedition to the Oklahoma Biological Station (2 days)

#### **PROFESSIONAL MEMBERSHIPS**

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Wilson Ornithological Societ	2016
American Ornithologists' Society	2015

