

Emily N. Ostrow, Ph.D.
Blue Bell, PA 19422

EDUCATION

Ph.D. in Ecology and Evolutionary Biology	July 2023
University of Kansas	
MS in Environmental Science	June 2018
Drexel University	
BS in Environmental Science	June 2018
Drexel University	

RESEARCH EXPERIENCE

University of Kansas Graduate Research Fellow	2018 - 2023
Academy of Natural Sciences of Drexel University (Ornithology)	
Research Associate	2018 - Present
Student Research Associate	2015 - 2018
Laboratory of Pinelands Research	2014 - 2015

PUBLICATIONS

Under Review

Ostrow, E. N., Musher, L. J., Winker, K., Mattison, P. M., Witt, C. C., Moyle, R. G. (2023). Late Pleistocene diversification implicated by continent-wide population structure in the Great Horned Owl. *Journal of Biogeography*

Accepted

DeCicco, L. H., Deraad, D. A., **Ostrow, E. N.**, Moyle, R. G. (2023). A complete species-level phylogeny of the Erythrura parrotfinches (Aves: Estrildidae). *Molecular Phylogenetics and Evolution*. <https://doi.org/10.1016/j.ympev.2023.107883>

Published

Ostrow, E. N., DeCicco, L. H., Moyle, R. G. (2023). Range-wide phylogenomics of the Great Horned Owl (*Bubo virginianus*) reveals deep north-south divergence in northern Peru. *PeerJ*. 11:e15787 <https://doi.org/10.7717/peerj.15787>

Ostrow, E. N., Catanach, T. A., Bates, J. M., Aleixo, A., Wecksetin, J. D. (2023). Phylogenomic analysis confirms the relationships among toucans, toucan-barbets, and New World barbets but reveals paraphyly of *Selenidera* toucanets and evidence for mitonuclear discordance. *Ornithology*. <https://doi.org/10.1093/ornithology/ukad022>

Deraad, D. A., Manthey, J. D., **Ostrow, E. N.**, Decicco, L. H., Andersen, M. J., Hosner, P. A., Shult, H. T., Joseph, L., Dumbacher, J. P., Moyle, R. G. (2022). Population connectivity across a highly fragmented distribution: Phylogeography of the *Chalcophaps* doves. *Molecular Phylogenetics and Evolution*, 166(October 2021), 107333. <https://doi.org/10.1016/j.ympev.2021.107333>

Hall, B. C., Hall, B. C., Decicco, L. H., Rush, I. N., **Ostrow, E. N.**, & Moyle, R. G. (2021). Molecular divergence among Yellow-spotted Barbet *Buccanodon duchaillui* populations suggests unrecognised diversity. *Bulletin of The British Ornithologists Club*, 141(3), 357–362.

PRESENTATIONS

Invited Talks

E. N. Ostrow, L. H. DeCicco, Vaughn M. Shirey, R. G. Moyle, J. D. Weckstein. Birds and lice: how non-model organisms can shed light on human parasites and diseases. Childrens Hospital of Philadelphia. Philadelphia, PA. May 2023.

E. N. Ostrow, L. H. DeCicco, M. Carlson, K. Winker, C. Witt, R. G. Moyle. Great Horned Owl diversity in the Americas and Kansas. Wichita Audubon. Wichita, KS. April 2022.

Talks

E. N. Ostrow, L. H. DeCicco, M. Carlson, R. G. Moyle. Birds as Islands: Using an avian contact zone to investigate their parasite population structure. Evolution Meeting. Cleveland, OH. June 2022

E. N. Ostrow, L. H. DeCicco, R. G. Moyle. Great Horned Owl Diversity at three scales. Midwest Ecology and Evolution Conference. Online. March 2022.

Talks

E. N. Ostrow, L. H. DeCicco, M. B. Robbins, R. G. Moyle. Great Horned Owl Diversity in the Americas and in Kansas. Kansas Ornithological Society Meeting. Online. October 2020.

E. N. Ostrow, T. A. Catanach, J. M. Bates, A. Aleixo, J. D. Weckstein. New World Toucans and Barbets: Understanding the Biogeographic History of the Neotropics. American Ornithological Society Meeting. Anchorage, AK. June 2019.

E. N. Ostrow, T. A. Catanach, J. M. Bates, A. Aleixo, J. D. Weckstein. New World Toucans and Barbets: Understanding the Biogeographic History of the Neotropics. Kansas Ornithological Society Meeting. Lawrence, KS. October 2018.

E. N. Ostrow, J. D. Weckstein. New World Toucans and Barbets: Understanding the Biogeographic History of the Neotropics. Masters Thesis Defense. Philadelphia, PA. June 2018.

E. N. Ostrow, B. D. Marks, D. E. Willard, J. D. Weckstein. Birds as potential vectors of *Borrelia*. Week of Undergraduate Excellence. Philadelphia, PA. May 2017

E. N. Ostrow, B. D. Marks, D. E. Willard, J. D. Weckstein. Birds as potential vectors of *Borrelia*. National Undergraduate Research Conference. Memphis, TN. April 2017

E. N. Ostrow, B. D. Marks, D. E. Willard, J. D. Weckstein. Birds as potential vectors of *Borrelia*. Fall Field Experience. Barnegat NJ. September 2016

E. N. Ostrow, B. D. Marks, D. E. Willard, J. D. Weckstein. Birds as potential vectors of *Borrelia*. North American Ornithological Conference. Washington, DC. August 2016

E. N. Ostrow, J. D. Weckstein. Birds as potential vectors of *Borrelia*. Nerd Night. Philadelphia, PA. July 2016

E. N. Ostrow, J. D. Weckstein. Birds as potential vectors of *Borrelia*. Drexel University BEES Department Research Day. Philadelphia, PA. March 2016

Poster Presentations

E. N. Ostrow, D. A. DeRaad, S. M. Baca, E. Shogren, J. Sardell, J. A. Uy, R. G. Moyle. Population genomics of *Myzomela* honeyeaters in the Solomon Islands. Evolution Meeting. Cleveland, OH. June 2022

E. N. Ostrow, J. Wnek, W. F. Bien. Hatchling and juvenile diamondback terrapin (*Malaclemys terrapin*) prey availability in two marshes in the Barnegat bay ecosystem. Colonial Academic Alliance. Philadelphia, PA March 2015

E. N. Ostrow, J. Wnek, W. F. Bien. Hatchling and juvenile diamondback terrapin (*Malaclemys terrapin*) prey availability in two marshes in the Barnegat bay ecosystem. National Collegiate Research Conference. Cambridge, MA. January 2015

E. N. Ostrow, M. E. Smith, J. Wnek, W. F. Bien. Hatchling and juvenile diamondback terrapin (*Malaclemys terrapin*) prey availability in two marshes in the Barnegat bay ecosystem. STAR Scholar Showcase. Philadelphia, PA. August 2014

GRANTS AND AWARDS

Large Grants

National Science Foundation Graduate Research Fellowship 2018 - 2023

Small Grants

American Ornithological Society Ficken Research Award 2022

Panorama Grant 2019, 2021, 2022

University of Kansas Ornithology Department Grant 2021

University of Kansas Entomology Endowment Grant 2021

University of Kansas Tinker Award 2020

Kansas Ornithological Society Student Research Fund 2020

EEB Travel Award 2019

NAOC Travel Award, Cooper Ornithological Society 2016

Arcadia Foundation Scholarship, Arcadia Foundation 2015

Marion Espenschade Endowed Scholarship, Drexel BEES Dept. 2015

Awards

Fulbright Semi-Finalist/Alternate (Colombia) Spring 2018

Spanish Language Intermediate Proficiency Certificate Spring 2018

Barry M. Goldwater Scholarship Honorable Mention Spring 2017

Pennoni Honors College, Drexel University 2013 - 2018

AJ Drexel Scholarship, Drexel University 2013 - 2018

Drexel University FIRST Robotics Scholarship, Drexel University 2013 - 2018

TEACHING AND PUBLIC OUTREACH

Guest Lecture

Using R with Phylogenies Fall 2019

Graduate Teaching Assistant

Biology 150 - Principles of Molecular and Cellular Biology Fall 2018

Biology 412 – Evolution Spring 2019

Undergraduate Teaching Assistant

Field Ornithology Spring 2017

Marine Field Methods Summer 2014

Public Outreach

Girl Scouts of Kansas City STEM Committee Member 2019 - 2022

KU Graduate Student Organization Outreach Events 2018 - 2023

KU Ornithology Collection Tours 2019 - 2023

ANSP Ornithology Collection Tours	2015 - 2018
Featured in The Sycamore (Willistown Conservation Trust)	2017
Photographs published in ANSP 2015-16 Annual Report	2016
Academy of Natural Sciences Members Night	2015 - 2017
Fall Field Experience (for incoming freshmen)	2015 - 2017
Rushton Woods Public Outreach	2015 - 2017