

Blake Mathys, Ph.D.
Associate Professor of Environmental Science
Curriculum Vitae

Ohio Dominican University
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Education

<u>Institution</u>	<u>Degree</u>	<u>Completed</u>
Ohio Northern University	B.S. Biology, Field Biology minor	May 2002
Rutgers University	Ph.D. Ecology and Evolution	January 2010

Ph.D. Dissertation: Morphological evolution of birds recently introduced to islands: patterns of diversification

Advisor: Dr. Julie L. Lockwood

Employment

July 2018 to Present	Associate Professor of Environmental Science <i>Ohio Dominican University</i>
2012 to June 2018	Assistant Professor of Environmental Science <i>Ohio Dominican University</i>
Spring 2012	Adjunct Professor: Ecology (1 semester) <i>Ohio Dominican University</i>
2011-2012	Adjunct Professor: Biological Sciences II (3 quarters) Introductory Biology (1 quarter) <i>Columbus State Community College</i>
2011-2012	Adjunct Professor: Science & Society (6 sections) <i>Franklin University</i>
2011	Co-Instructor: Animal Behavior & Conservation; 10 day field course at La Suerte Biological Field Station near Cariari, Costa Rica <i>Hunter College</i>
2009-2011	Visiting Assistant Professor: Cells & Molecules and Biodiversity & Evolution lecture and laboratory (4 semesters) <i>The Richard Stockton College of New Jersey</i>
2010-2011	Part-time Lecturer: Ornithology (2 semesters) Wildlife Ecology & Conservation (1 semester) <i>Rutgers University</i>
2010	Adjunct Professor: Introduction to Natural Resources (1 semester) <i>Rowan University</i>
2004-2009	Teaching Assistant: Vertebrate Zoology laboratory (4 semesters); Ichthyology laboratory (1 semester); Invertebrate Zoology laboratory (1 semester); General Biology laboratory (3 semesters) <i>Rutgers University</i>

Employment (continued)

- 2008 **Co-Instructor:** The Ecology of the Jersey Shore; Byrne First-Year Seminar
Rutgers University
- 2003, 2004 **Field Technician:** Cape Sable Seaside Sparrow Fire Study, FL
University of California, Santa Cruz
- 2004 **Intern:** Northern Elephant Seal monitoring, Southeast Farallon Island, CA
PRBO Conservation Science
- 2003 **Hawk Counter:** Chelan Ridge Raptor Migration Project, WA
HawkWatch International
- 2002 **Teaching Assistant:** General Biology laboratory (1 semester)
Missouri State University
- 2001 **Intern:** Fish sampling in Sandusky River Watershed
Ohio EPA, Division of Surface Water

Publications

- 2020** **Mathys, B.A.** Chapter 7: Great Kiskadee (*Pitangus sulphuratus* Linnaeus, 1766)
in *Invasive Birds: Global Trends and Impacts*.
Edited by C.T. Downs and L.A. Hart. CABI.
- 2018** Valentin, R.E., Lockwood, J.L., **Mathys, B.A.**, & Fonseca, D.M. Influence of
invasion history on rapid morphological divergence across island populations
of an exotic bird. *Ecology and Evolution*. doi:10.1002/ece3.4021
- 2017** Mathys, D.A., **Mathys, B.A.**, Mollenkopf, D., Daniels, J. & Wittum, T.E.
Enterobacteriaceae harboring AmpC (*bla_{CMY}*) and ESBL (*bla_{CTX-M}*) in
migratory and non-migratory wild songbird populations on Ohio dairies.
Vector-Borne and Zoonotic Diseases. doi:10.1089/vbz.2016.2038
- 2017** Urig, H., Nolting, J., Mathys, D., **Mathys, B.A.** & Bowman, A. Influenza A virus
surveillance in under-represented avian species, Ohio, 2015.
Journal of Wildlife Diseases. doi:10.7589/2016-05-106
- 2016** Le Gros, A., Clergeau, P., Zuccon, D., Cornette, R., **Mathys, B.A.** & Samadi, S.
Invasion history and demographic processes associated with rapid morphological
changes in the Red-whiskered bulbul established on tropical islands.
Molecular Ecology. **25**(21):5359-5376. doi:10.1111/mec.13853
- 2011** **Mathys, B.A.** & Lockwood, J.L. Contemporary morphological diversification of
passerine birds introduced to the Hawaiian archipelago.
Proceedings of the Royal Society B: Biological Sciences. **278**(1716):2392-2400.
- 2011** **Mathys, B.A.** First record of Aplomado Falcon (*Falco femoralis*) for the West
Indies. *The Wilson Journal of Ornithology*. **123**(1):179-180.
- 2009** **Mathys, B.A.** & Lockwood, J.L. Rapid evolution of great kiskadees on Bermuda:
an assessment of the ability of the Island Rule to predict the direction of
contemporary evolution in exotic vertebrates.
Journal of Biogeography. **36**(12):2204-2211.
- In prep **Mathys, B.A.**, Elgersma, K.J. & Lockwood, J.L. Contemporary evolution of
exotic bird morphology in response to insularization: does the Island Rule hold
for exotic passerines?

Professional Presentations

- 2008 International Biogeography Society; 4th Biennial meeting in Mérida, Mexico. Poster: “Rapid Morphological Evolution of Exotic Passerine Birds on Islands”
- 2006 North American Ornithological Conference, Veracruz, Mexico. Poster: “Contemporary Evolutionary Change of the Introduced Great Kiskadee *Pitangus sulphuratus* Population in Bermuda”

Funding

- 2020 Columbus Audubon: \$1,983.99 for “Central Ohio Owl Project”
- 2013 Ohio Dominican University Summer Research Grant: \$2,000
“Evolution of non-native birds on the Hawaiian archipelago”
- 2007 Co-wrote proposal to National Geographic Society: \$14,000
“Do non-native species show macro-evolutionary patterns? Non-native passerines and the Island Rule” (Dr. Julie L. Lockwood, Primary Investigator)

University Service

- 2015-16 Committee on Academics and Traditional Undergraduate Enrollment
- 2016-17 Course Evaluations Committee
- 2013-14, 2017-18 Admission Committee for Undergraduate Programs
- 2013-18 Justice/Common Good/Truth Planning Committee
- 2016-19 Benefits Committee
- 2013 to present Founder and Faculty Advisor: Ohio Dominican Birding Club
- 2014 to present Ohio Dominican Sustainability Council
- 2016 to present Advisor and Supervisor for Recycling Students on Campus
- 2019 to present Budget Committee
- 2019 to present Faculty Senate Leadership Team
- 2019 to present Undergraduate Curriculum and Academic Policies Committee

Professional Service

- Peer reviewer: *Biological Invasions, Ibis, Oikos, The Auk, Ethology, Ecology, and Biological Conservation*

Permits

- March 2012 to present Federal master bird banding permit
- March 2012 to present State of Ohio bird banding permit
- March 2013 to present U.S. Fish & Wildlife Service salvage permit for bird specimens
- March 2013 to present State of Ohio permit to salvage bird and mammal specimens
- March 2013 to present State of Ohio permit to capture fish (using electrofishing, seines, and minnow traps) and small mammals (using Sherman live traps)