

ABBREVIATED CURRICULUM VITAE

Prof. James “Andrew” DeWoody

Depts. of Forestry & Natural Resources (FNR) and Biological Sciences (BIOL)

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Education

Postdoc	University of Georgia (UGA)	1997-2000	Genetics
Ph.D.	Texas Tech University (TTU)	1994-1997	Zoology
M.S.	Texas A&M University (TAMU)	1992-1994	Genetics
B.S.	Texas A&M University (TAMU)	1987-1991	Wildlife & Fisheries

Appointments

- U.S. Fulbright Scholar, 2025 (Slovenia).
- Associate Department Head, FNR, 2011-2014.
- University Faculty Scholar (Purdue University), 2009.
- Professor of Genetics (Purdue University), 2009-present.
- Visiting Professor (Cornell & SUNY Binghamton), 2008. *Sabbatical appointments.*

Honors

- Elected Fellow of the American Association for the Advancement of Science (2016)
- Elected Member of Sigma Xi (2016)
- Recipient of Purdue University’s 2011 Agricultural Research Award. *“This Award is the highest honor given by the College of Agriculture’s Research Office and reflects exceptional contributions to the field of ecological and evolutionary genetics”. The award consists of a plaque, a \$1,500 honorarium from the Charles Guthrie Patterson Memorial Endowment and Matthew Morgan Hamilton Funds, and \$10,000 for research.*
- Recipient of 2011-2012 FNR Outstanding Graduate Educator Award
- Named a Purdue University Faculty Scholar, 2009. *“The University Faculty Scholars Program recognizes outstanding faculty members who are on an accelerated path for academic distinction. Faculty Scholars are appointed for a nonrenewable five year term and receive an annual \$10,000 discretionary allocation.”*

Research Interests

Conservation genomics; molecular ecology and evolution; population biology; wildlife and fisheries management; natural history

Teaching Experience

Advanced Evolution, Conservation Genetics, Introductory Biology, Molecular Ecology & Evolution, Origin of Species, Wildlife Field Practicum, Wildlife in America

Advisees

4 Visiting Scientists, 9 Postdoctoral Associates, 2 Research Faculty Assistants, 16 PhD Students, 6 MS Students, many undergraduates

Editorial Service

<i>Journal of Wildlife Management</i>	2001-2006
<i>North American Journal of Fisheries Management</i>	2003-2006
<i>Genetica</i> (Netherlands)	2005-2015

<i>Molecular Ecology Resources</i>	2011-present
<i>Molecular Ecology</i>	2013-present

Relevant Service

Peer Reviewer to evaluate USFWS Endangered Species listing	2008, 2019
Advisory Team member for State Wildlife Action Plan	
○ Indiana Department of Natural Resources	2013-2014
Conservation Genetics Specialist Group (<i>part of the IUCN Species Survival Commission</i>)	2016-
IUCN Species Survival Commission (<i>appointed member</i>)	2017-

Monetary Awards (grants, contracts, etc.)

Federal agencies (e.g., NSF, USDA, BLM, NOAA, USGS, CoE, etc.), *state natural resource agencies* (i.e., Indiana, California, Texas), *non-governmental organizations* (e.g., WAFWA, NFWF, etc.), *corporate* (e.g., ExxonMobil, ENL, etc.)

Books

J.A DeWoody, J.W. Bickham, C. Michler, K. Nichols, O.E. Rhodes & K. Woeste (eds.) *Molecular approaches in natural resource conservation and management*. 2010. Cambridge University Press, 374 pp. ISBN 978-0-521-51564-1 (hardback) Click [here](#) for topics and contributors.

Selected Peer-Reviewed Journal Articles

- Fahey A.L., Ricklefs R.E. & DeWoody J.A. (2014) DNA-based approaches for evaluating historical demography in terrestrial vertebrates. **Biological Journal of the Linnean Society** 112: 367–386. “*Editor’s Choice*” article in this issue of the journal.
- Leroy G., Carroll E.L., Bruford M., DeWoody J.A., Strand A., Waits L., & Wang J. (2018) Next-generation metrics for monitoring genetic erosion within populations of conservation concern. **Evolutionary Applications** 11:1066-1083. *Invited paper*.
- Carroll E.L., Bruford M., DeWoody J.A., Leroy G., Strand A., Waits L., & Wang J. (2018) Genomic monitoring with minimally invasive sampling methods. **Evolutionary Applications** 11:1094-1119. *Invited paper*.
- DeWoody J.A., Harder H., Mathur S. & Willoughby J. (2021) The long-standing significance of genetic diversity in conservation. **Molecular Ecology** 30:4147–4154. (*Top Cited Article in Molecular Ecology for 2021-2022*)
- Mathur S., Tomeček J.M., Tarango- Arámbula L.A., Perez R.M. & DeWoody J.A. (2023) An evolutionary perspective on contemporary genetic load in threatened species as informed by whole genome resequencing and forward-time simulations. **Evolution** 77:690-704. [*Dr. Mathur won the President’s Award for Outstanding Dissertation Paper published in Evolution for this manuscript.*]
- Jeon J.Y., Shin Y., Mularo A.J., Feng X. & DeWoody J.A. (2024) Whole-genome resequencing meets ecological niche modeling to identify and conserve adaptive potential. **Diversity and Distributions** 30, e13847.
- Black A.N., Heenkenda E.J., Mathur S., Willoughby J.R., Pierce B.L., Turner S., Rizzuto D., DeWoody J.A. (2024) Cryptic and rapid speciation due to isolation and drift in an endangered pupfish. **Proceedings of the National Academy of Sciences USA (PNAS)** 121 (22) e2320040121.
- Black A.N., Mularo A.J., Jeon J.Y., Haukos D., Bondo K.J., Fricke K.A., Gregory A., Grisham B., Lowe Z.E., & DeWoody J.A. (2024) Discordance between taxonomy and population genomic data: An avian example relevant to the United States Endangered Species Act. **PNAS Nexus** 3(8) 10.1093.
- Jeon J.Y., Black A., Heenkenda E., Mularo A., Lamka G., Janjua S., Bruniche-Olsen A., Bickham J.W., Willoughby J. & DeWoody J.A. (2024) Genomic diversity as a key conservation criterion: proof-of-concept from mammalian whole-genome resequencing data. **Evolutionary Applications** 17:e70000. *Part of a Special Issue on Effective Population Size.*