**Education\***

**Institution** **Degree**  **Graduation Year**

Michigan State University Ph.D. Integrative Biology (Focus: Quantitative Ecology) 2021 (Expected)

Ph.D. Ecology, Evolutionary Biology, and Behavior

University of Georgia M.S. Forest Resources (Focus: Wildlife Biology) 2016

University of Georgia B.S. Ecology 2012

\***Note:** Transcripts available upon request

**Work Experience - since 2008\*** Sorted by End Date

***Graduate Assistant*** June 2016 – Present

*Department of Integrative Biology, Michigan State University*

*& Patuxent Wildlife Research Center, United States Geological Survey*

East Lansing, MI 48824; 40 hours/week

* Advisors: Drs. Elise F. Zipkin (Michigan State University) and Evan H. Campbell Grant (United States Geological Survey)
* Worked with the USGS to develop network-scale management and monitoring strategies for stakeholders within the National Park Service to maintain the viability of the amphibian community at the regional-level through the use of structured decision-making and hierarchical modeling
* Published multiple first authored and co-authored publications in international, high-impact scientific journals
* Published multiple technical reports, resource briefs, and quarterly newsletter articles for National Park Service regional staff
* Co-led field crews of USGS seasonal technicians every summer from 2016-2019 to conduct wetland sampling for amphibian occurrence data and habitat variables
* Co-led and coordinated field work every Spring and Fall with >30 undergraduate and high school student volunteers at Rose Lake Wildlife Area as part of a regional education and conservation collaboration ([SPARCnet](http://sparcnet.org/)) across multiple federal and academic partners
* Conducted Bayesian statistical analyses, simulation modelling, integrative modelling data visualization, and other advanced quantitative techniques
* Received a prestigious Quantitative Biology Recruiting Fellowship to attend MSU
* Received the prestigious Leadership Development Fellow for the College of Natural Science and Graduate School at MSU (1 of >1,000 students). From 2017-2020, I worked with, and developed or implemented products, at multiple levels of organization at the University to improve graduate education. More description of this work can be found [here](https://iteach.msu.edu/iteachmsu/groups/iteachmsu/stories/1070). Supervisors: Dr. Megumi Akehi (Program Director, MSU Graduate School) and Dr. Richard Schwartz (Associate Dean of Graduate Studies, MSU College of Natural Science)
* Was a teaching assistant for over 40 students in NSC 495 (Capstone in Human Biology and Tier II Writing Course) during the Fall of 2020

***Directorate Fellow*** May 2020 – Aug 2020

*U.S. Fish and Wildlife Service*

East Lansing, MI 48824; 40 hours/week

* Supervisor: Brad Potter, Science Coordinator
* Worked as a valuable team member of the Great Lakes Science Applications program
* Advanced the efforts of the a new USFWS national pollinator initiative by providing critical value-added capacity to assess and synthesize information, helping coordinate and inform agency strategic decision making, and developing communication materials that will have long-term utility
* Developed a draft strategic plan outlining USFWS scope and direction of pollinator conservation work nationally
* Collaborated as part of the US team on the *North American Pollinator Conservation Framework* by synthesizing and organizing feedback from other US delegates, and attending tri-national workshops and meetings led by the Commission for Environmental Cooperation
* Provided multiple executive-level briefings to Directorate members regarding my collaborative work

***Graduate Assistant*** Jan 2014 – May 2016

*Warnell School of Forestry and Natural Resources, University of Georgia*

*& the Joseph W. Jones Ecological Research Center*

Athens, GA 30602; 40 hours/week

* Advisors: Drs. Jeffrey Hepinstall-Cymerman (University of Georgia), Lora L. Smith (Joseph W. Jones Ecological Research Center), and Clinton T. Moore (USGS Georgia Cooperative Fish & Wildlife Research Unit)
* Conducted field research, e.g. trapping and line-transect distance surveys, of gopher tortoises as part of a long-term demographic study of gopher tortoises at the Jones Ecological Research Center
* Designed a probabilistic spatial sampling design based on habitat suitability and connectivity to preferentially sample areas with expected occurrence of dispersed gopher tortoises
* Conducted spatial capture-recapture modelling to investigate population dynamics and movement patterns of gopher tortoises
* Collaborated as part of a team developing an adaptive landscape planning and decision framework for the Georgia DNR for the statewide conservation of gopher tortoises
* Guest lectured for FANR 8400 (Advanced Spatial Analysis) on individual-based modelling

***Resident Naturalist*** Nov 2012 – Dec 2013

*University of Georgia Costa Rica Campus*

San Luis de Monteverde, Costa Rica; 40 hours/week

* Led nature-based activities and academic programs for student groups and eco-tourists of all ages and educational backgrounds in English and Spanish
* Assisted in scientific research and was liaison for scientific researchers visiting the campus
* Created an online virtual classroom platform for grades 9-12 following the National Science Education Standards

***Conservation Assistant*** Aug 2012 – Nov 2012

*Audubon Naturalist Society*

Chevy Chase, MD 20815; ~10 hours/week

* Supervisor: Raj Sakaria, Property Manager, *retired*
* Led and worked on conservation management programs at the center.
* Led and worked on environmental education classes for children.

***Waiter***  Aug 2012 – Nov 2012

*RFD Bar & Restaurant*

Washington, DC MD 20531; ~40 hours/week

* Provided customer service excellence to patrons

***Guest Services Supervisor***  Aug 2010 – July 2012

*University of Georgia Hotel & Conference Center*

Athens, GA 30602; ~24-32 hours/week

* Supervisor: David Fallaw, Concierge, *no longer employed there*
* Customer service representative to hotel and conference patrons
* Coordinated activities with multiple other department managers and supervisors (e.g. Food and Beverage, Hospitality, Conference Operations, Maintenance, etc.)
* Managed up to 6 other hourly employees per shift

***Research Technician***  Jan 2009 – Sep 2011

*HorseShoe Bend Ecology Experimental Research Site, Odum School of Ecology (UGA)*

Athens, GA 30602; ~15 hours/week

* Supervisor: Dr. Gary W. Barrett, Odum Chair of Ecology, *retired*
* Investigated the population dynamics of small mammals of a southeastern forest.
* Conducted an independent research study supported by the Eugene P. Odum Endowed Chair Fund which was published in the Georgia Journal of Science

***Water Policy Intern*** Summer 2011

*River Basin Center (UGA)*

Athens, GA 30602; 5-10 hours/week

* Supervisor: Laurie Fowler, Director of Policy
* Conducted web-based research focusing on water regulations and ordinances in major cities throughout the Southeastern US and their effects on water quality/availability.

***NSF- REU Research Intern*** Summer 2010

*Biology Department, Miami University*

Miami, OH 45056; 40 hours/week

* Supervisor: Dr. Thomas O. Crist, Chair
* In a National Science Foundation-funded position (NSF-REU, *The Ecology of Human-Dominated Landscapes,* DBI-0754491), I studied the density and distribution of ground beetles at forest-crop edges in southwestern Ohio.

***Production Hand*** Summer 2009

*Ghann’s Cricket Farm*

Martinez, GA 30907; 40 hours/week

* Supervisor: Bill Pettyjohn, Production Manager
* Worked in the production facility
* Featured on Discovery Channel’s “Dirty Jobs”

\***Note:** Information regarding work experience prior to 2008 is available upon request.

**Honors & Awards**

**Fellowships, Scholarships, and other Honors**

Directorate Fellowship Summer 2020

*U.S. Fish & Wildlife Service*

Leadership Development Fellowship 2017 –2020

*The Graduate School, Michigan State University*

EEBB Fellowship Summer 2019

*Ecology, Evolution, and Behavior Program, Michigan State University*

Quantitative Biology Fellowship 2016 – 2017

*College of Natural Science, Michigan State University*

J. Larry Landers Student Research Award October 2014

*Gopher Tortoise Council*

UGA Foundation Incentive Award May 2011

*Office of International Education, University of Georgia*

Most Outstanding Paper Award (Biological Sciences Section) April 2011

*Georgia Academy of Science*

Hospitality Employee Recognition of Excellent Service April 2011

*Athens Convention & Visitors Bureau*

National Science Foundation Research Experience for Undergraduates Fellow Summer 2010

*Department of Zoology, Miami University, NSF-REU program*

Richardson-Golley Undergraduate Citizenship Award April 2010

*Odum School of Ecology, University of Georgia*

HOPE Scholarship (Full Tuition Award – Merit based) 2008 – 2012

*State of Georgia*

**Travel and Conference Awards**

Student Travel Grant April 2018 *Applied Machine Learning Conference, Tom Tom Festival*

Explore NEON Award October 2018 *National Science Foundation*

EEBB Travel Fellowship May 2018 *Ecology, Evolution, and Behavior Program, Michigan State University*

Student Travel Award October 2016

*Biometrics Working Group, The Wildlife Society*

Student Travel Award April 2016

*U.S. Chapter, International Association of Landscape Ecology*

1st Place for Best Master’s Oral PresentationJanuary 2015

*Warnell Graduate Student Association (UGA)*

3rd Place for Best Student Oral Presentation October 2015

*Gopher Tortoise Council*

1st Place for Best Quantitative Poster Presentation at SCCS-NY October 2015

*Applied Biomathematics Inc.*

Runner-up for Best Student Poster January 2015

*Center for Integrative Conservation Research, University of Georgia*

**Publications\***

**Journal Articles** *(Published, In Revision, In Review, and In Prep)*

Cabodevilla, X., **Wright, A.D.**, Zipkin, E.F., Arroyo, B., and Villanua, D. In Prep. Irrigation drives declines in bird communities. To be submitted to Journal of Applied Ecology.

**Wright, A.D.**, Grant, E.H.C., and Zipkin, E.F. In prep. Optimizing monitoring strategies for large-scale conservation. To be submitted to Ecological Applications.

**Wright, A.D.**, Hepinstall-Cymerman, J., Smith, L.L., Nuse, B.N., and Moore, C.T. In Prep. Long-term population ecology and movement patterns of gopher tortoises. In Prep. To be submitted to Journal of Wildlife Management.

Zipkin, E.F., Zylstra, E.R., **Wright, A.D.**, Finley, A.O., Dietze, M.C., Itter, M.S., and Tingley, M.W. 2020. Addressing data integration challenges to link ecological processes across scales. Frontiers in Ecology and the Environment. Accepted for publication.

**Wright, A.D.**, Bernard, R.F., Mosher, B.A., O’Donnell, K.M., Braunagel, T., DiRenzo, G.V., Fleming, J., Shafer, C., Brand, A.B., Zipkin, E.F., and Grant, E.H.C. 2020. Moving from decision to action in conservation science. Biological Conservation 249: 108698.

**Wright, A.D.**, Grant, E.H.C., and Zipkin, E.F. 2020. A hierarchical analysis of habitat area, connectivity, and quality on amphibian diversity across spatial scales. Landscape Ecology 35: 529-544.

Saunders, S.P., Farr, M.T., **Wright, A.D.**, Bahlai, C.A., Ribeiro Jr, J.W., Rossman, S., Sussman, A.L., Arnold, T.W. and Zipkin, E.F. 2019. Disentangling data discrepancies with integrated population models. Ecology, p.e02714.

**Wright, A.D.** and Barrett, G.W. 2011. Golden mouse (*Ochrotomys nuttalli*) and white-footed mouse (*Peromyscus leucopus*) dietary resource partitioning under experimental field conditions. Georgia Journal of Science 69: 114-122.

**Technical Reports**

Grant, E.H.C, Grand, A.B., and **Wright, A.D.** In Revision. Monitoring as research: 15 years of amphibian monitoring in the National Capital Region Network. National Park Service Technical Report.

**Data Products & Web Visualizers**

Arnold, T.W., Farr, M.T., **Wright, A.D.**, and Saunders, S. P. 2019. Estimating annual harvest of American Woodcock (*Scolopax minor*) in the United States during 1964-2016: data, model code, and supplemental estimates. Retrieved from the Data Repository for the University of Minnesota.

Wright, A.D. ‘Math & Monarchs Module’. <https://github.com/zipkinlab/Danaus>

\***Note:** All data and code for publications can be found on my personal Github page or the Zipkin Lab Github page

**Presentations**

**Invited**

**Wright, A.D.** 2020. Common Purpose. Michigan State University Graduate School Leadership Academy Workshop series held 13 February 2020.Oral.

**Wright, A.D.**, J. Hepinstall-Cymerman, L.L. Smith, and C.T. Moore. 2016. Long-term population ecology and movement patterns of gopher tortoises (*Gopherus polyphemus*) in southwestern Georgia. Joseph W. Jones Ecological Research Center, held 16 May 2016 in Newton, GA. Oral.

**Wright, A.D.** 2016. Odum & Beyond. Parents and Families Day, Odum School of Ecology, University of Georgia, held 20 February 2016 in Athens, GA.Oral.

**Contributed (selected)**

**Wright, A.D.**, Grant, E.H.C., and Zipkin, E.F. 2018. A multi-scaled analysis of habitat area, connectivity, and quality on amphibian diversity. Annual Meeting of the Wildlife Society, held 7-11 October 2018 in Cleveland, OH. Oral.

Mosher, B. A., D. A. W. Miller, **A.D. Wright**, and E. H. Campbell Grant. I’ve made a huge (misidentification) mistake: accounting for detection errors in complex communities. Ecological Society of America annual meeting. New Orleans, LA (August 2018).

Mosher, B. A., D. A. W. Miller, **A.D. Wright**, and E. H. Campbell Grant. Pairwise misidentification in community occupancy models. International Statistical Ecology Conference meeting. St. Andrews, Scotland (July 2018).

**Wright, A.D.**, Grant, E.H.C., Zipkin, E.F., Nichols, J.D., Campbell, J.P., Sanders, G.M. 2017. Amphibian monitoring and management in the National Capital Region – Understanding changes in the amphibian community through the use of multi-species, multi-region occupancy models. Natural Resources Advisory Team Quarterly Meeting of the National Capitol Region Network, National Park Service, held 20 July 2017 at Harpers Ferry National Historical Park, Harpers Ferry, WV. Oral.

**Wright, A.D.**, J. Hepinstall-Cymerman, L. Smith, and C.T. Moore. 2016. Long-term population ecology and movement patterns of gopher tortoises (*Gopherus polyphemus*): A spatial capture-recapture approach. Annual Meeting of the Wildlife Society, held 16-20 October 2016 in Raleigh, NC. Oral.

**Wright, A.D.**, J. Hepinstall-Cymerman, L. Smith, and C.T. Moore. 2016. Long-term population ecology and large-scale movement patterns of gopher tortoises (*Gopherus polyphemus*) in southwestern Georgia. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, held 3-7 April 2016 in Asheville, NC. Oral.

**Wright, A.D.**, J. Hepinstall-Cymerman, L. Smith, and C.T. Moore. 2015. Long-term population ecology and large-scale movement patterns of gopher tortoises (*Gopherus polyphemus*) in southwestern Georgia. Annual Conference of the Southeastern Association of Fish & Wildlife Agencies, held 1-4 November 2015 in Asheville, NC. Oral.

**Wright, A.D.**, J. Hepinstall-Cymerman, L. Smith, and C.T. Moore. 2015. Long-term population ecology and large-scale movement patterns of gopher tortoises (*Gopherus polyphemus*) in southwestern Georgia. Annual Gopher Tortoise Council Meeting held 16-18 October 2015 in Covington, LA. Oral.

**Wright, A.D.**, J. Hepinstall-Cymerman, L. Smith, and C.T. Moore. 2015. Data are scarce but action is necessary: Using agent-based models for conservation. Annual Student Conference on Conservation Science (New York), held 7-9 October 2015 in New York, NY. Poster.

**Wright, A.D.**, J. Hepinstall-Cymerman, L. Smith, and C.T. Moore. 2015. Estimating dispersal rates and landscape resistance to understand functional connectivity for a long-lived endangered species. World Congress of the International Association of Landscape Ecology, held 5-10 July 2015 in Portland, OR. Poster.

**Wright, A.D.**, J. Hepinstall-Cymerman, L. Smith, and C.T. Moore. 2015. Data is scarce but action is necessary: Using spatially-explicit, individual-based models to better understand the ecology of threatened/endangered species. Annual Sustainability Science Symposium of the Center for Integrative Conservation Research at the University of Georgia, held 23 January in Athens, GA. Poster

**Wright, A.D.** and Barrett, G.W. 2011. Golden mouse (*Ochrotomys nuttalli*) and white-footed mouse (*Peromyscus leucopus*) dietary resource partitioning under experimental field conditions. Annual Meeting of the Georgia Academy of Science, held 25-26 March 2011 in Gainesville, GA. Oral.

**Wright, A.D.** and Crist, T.O. 2010. Density and distribution patterns of ground beetles at forest-crop edges in southwestern Ohio. Annual NSF-REU Symposium on the Ecology of Human-Dominated Landscapes, Miami University, held 30 July 2010 in Oxford, OH.

**University Service\***

*Graduate Representative*  2017 - Present

Graduate Committee, College of Natural Science, Michigan State University

*Graduate Representative*  2017 - Present

Student Advisory Council, College of Natural Science, Michigan State University

*Graduate Representative*  2017 - 2018

Seminar Committee (EEBB Program), Michigan State University

*Graduate Representative* 2016 – 2017

Faculty Meeting, Department of Integrative Biology, Michigan State University

*Symposium Committee*  2015 – 2016

Warnell Graduate Student Association (UGA)

*Undergraduate Representative* 2009 – 2011

Facilities Committee, Odum School of Ecology, University of Georgia

*Animal Caretaker* 2009 – 2011

Odum School of Ecology, University of Georgia

\***Note:** Volunteer and outreach information available upon request.

**Skills & Certification**

**Language:** Spanish

**Computer:** R, JAGS, BUGS, DISTANCE, MARK, ArcGIS, Python, SQL, and Microsoft Access, Word, Excel, and Powerpoint

**Certifications:** First Aid/CPR, Valid Michigan driver’s license

**References**\*

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| **Dr. Elise F. Zipkin** (PhD Advisor)  Associate Professor  Department of Integrative Biology  Michigan State University  Zipkin Quantitative Ecology Lab  228 Farm Lane, 305 Natural Science  East Lansing, MI 48824  ezipking@msu.edu  517.884.8039 | **Dr. Evan H. Campbell Grant** (PhD Advisor)  Research Wildlife Biologist  Patuxent Wildlife Research Center  Northeast Amphibian Research and Monitoring Initiative  U.S. Geological Survey  1 Migratory Way  Turner Falls, MA 01376  ehgrant@usgs.gov  413.863.3823 |
| **Bradly Potter** (Directorate Fellow Supervisor)  Science Coordinator  Great Lakes Science Applications  U.S. Fish and Wildlife Service  East Lansing Field Office  2651 Coolidge Road, #101  East Lansing, MI 48823  Bradley\_Potter@usfws.gov  517.351.4213 | **Craig Czarnecki** (Directorate Fellow Supervisor)  Assistant Regional Director  Great Lakes Science Applications  U.S. Fish and Wildlife Service  East Lansing Field Office  2651 Coolidge Road, #101  East Lansing, MI 48823  Craig\_Czarnecki@usfws.gov  404.679.7103 |
| **Dr. Megumi Akehi** (Leadership Fellow Supervisor)  Associate Director  Graduate Student Life & Wellness  The Graduate School  Michigan State University  466 W Circle Drive  East Lansing, MI 48824  akehimeg@msu.edu  517.355.8270 | **Dr. Richard Schwartz** (Leadership Fellow Supervisor)  Associate Dean of Graduate Studies  College of Natural Science  Michigan State University  288 Farm Lane  East Lansing, MI 48824  schwart9@msu.edu  517.355.8270 |
| \***Note:** Additional references are available upon request | |