

NEIL A. GILBERT

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Appointments

Postdoctoral Research Fellow
Michigan State University

2022–
East Lansing, MI

Education

PhD Wildlife Ecology
University of Wisconsin-Madison

2022
Madison, WI

MS Biological Sciences
University of Alabama

2018
Tuscaloosa, AL

BS Biology, BA Spanish
Calvin College

2014
Grand Rapids, MI

Publications

17. **Gilbert, N.A.**, C.M. Blommel, M.T. Farr, D.S. Green, K.E. Holekamp, E.F. Zipkin. A multispecies hierarchical model to integrate count and distance sampling data. In review: *Ecology*.
16. Pease, B.S., **N.A. Gilbert**, W.R. Casola, K. Akamani. In press. The Steller's Sea-Eagle in North America: an economic assessment of birdwatchers traveling to see a vagrant raptor. *People and Nature*.
15. **Gilbert, N.A.**, H.N. Eyster, E.F. Zipkin. 2023. Propagating uncertainty in ecological models to understand causation. *Frontiers in Ecology and the Environment* 21:114-115.
14. **Gilbert, N.A.**, K.A. McGinn, L.A. Nunes, A.A. Shipley, J. Bernath-Plaisted, J.D.J. Clare, P.W. Murphy, S.R. Keyser, K.L. Thompson, S.B. Maresch Nelson, J.M. Cohen, I.V. Widick, S.L. Bartel, J.L. Orrock, B. Zuckerberg. 2023. Daily activity timing in the Anthropocene. *Trends in Ecology and Evolution* 38:324-336.
13. **Gilbert, N.A.**, J.L. Stenglein, J.N. Pauli, B. Zuckerberg. 2022. Human disturbance compresses the spatiotemporal niche. *PNAS* 119(52):e22-6339119.
12. **Gilbert, N.A.**, N.M. Anich, M. Worland, B. Zuckerberg. 2022. Microclimate complexities at the trailing edge of the boreal forest. *Forest Ecology and Management* 524:120533.
11. Zuckerberg, B., J.D. McCabe, **N.A. Gilbert**. 2022. Antipredator behaviors in urban settings: Ecological experimentation powered by citizen science. *Ecology and Evolution*. 12:e9269.
10. **Gilbert, N.A.**, J.L. Stenglein, T.R. Van Deelen, P.A. Townsend, B. Zuckerberg. 2022. Behavioral flexibility facilitates use of spatial and temporal refugia during extreme winter weather. *Behavioral Ecology* arab154.
9. Townsend, P.A., J.D.J. Clare, N. Liu, J.L. Stenglein, C.M. Anhalt-Depies, T.R. Van Deelen, **N.A. Gilbert**, A. Singh, K.J. Martin, B. Zuckerberg. 2021. Snapshot Wisconsin: networking community scientists and remote sensing to improve ecological monitoring and management. *Ecological Applications* 31:e02436.
8. **Gilbert, N.A.**, B.S. Pease, C.M. Anhalt-Depies, J.D.J. Clare, J.L. Stenglein, P.A. Townsend, T.R. Van Deelen, B. Zuckerberg. 2021. Integrating harvest and camera trap data in species distribution models. *Biological Conservation* 258:109147.

7. **Gilbert, N.A.**, J.D.J. Clare, J.L. Stenglein, B. Zuckerberg. 2021. Abundance estimation of unmarked animals based on camera-trap data. *Conservation Biology* 35:88-100.
6. Zuckerberg, B., J.M. Cohen, L.A. Nunes, J. Bernath-Plaisted, J.D.J. Clare, **N.A. Gilbert**, S.S. Kozidis, S.B. Maresh Nelson, A.A. Shipley, K.L. Thompson, A. Desrochers. 2020. A review of overlapping landscapes: pseudoreplication or a red herring in landscape ecology? *Current Landscape Ecology Reports* 5:140-148.
5. **Gilbert, N.A.** and P.F.B. Ferguson. 2019. Landscape patterns associated with occupancy of disturbance-dependent birds in the Blackland Prairie Ecoregion of Alabama and Mississippi. *Southeastern Naturalist* 18:381-404.
4. **Gilbert, N.A.** and P.F.B. Ferguson. 2019. Disturbance, but not the right kind: exurban development does not create habitat for shrubland birds. *Wilson Journal of Ornithology* 131:243-259.
3. **Gilbert, N.A.**, H.E. Home, J.A. Trent. 2019. The Painted Bunting (*Passerina ciris*) breeds in central Alabama and eastern Mississippi. *Wilson Journal of Ornithology* 131:147-152.
2. **Gilbert, N.A.**, M.R.A. Eshleman, A.E. Janik, K.L. Kauffman, J.B. LaPergola. 2018. A rare observation of White-collared Swift (*Streptoprocne zonaris*) breeding activity on Hispaniola. *Journal of Caribbean Ornithology* 31:12-16.
1. Pope, W.C., ...**N.A. Gilbert**,...G.F. Hatfull (2,863 authors). 2015. Whole genome comparison of a large collection of mycobacteriophages reveals a continuum of phage genetic diversity. *eLife* 4e06416.

Funding and Awards

Research Grants

\$ 1,000	Animal Behavior Society	2020
\$ 600	Sea and Sage Audubon Society	2017
\$ 1,500	Pasadena Audubon Society	2017
\$ 1,165	Birmingham Audubon Society	2017

Fellowships and Scholarships

\$ 138,000	NSF Postdoctoral Research Fellowship in Biology	2022–2024
\$ 28,000	Thomsen Wisconsin Distinguished Graduate Fellowship	2021–2022
\$ 1,000	McCabe-Keith Award, University of Wisconsin-Madison	2021
\$ 2,000	New Graduate Student Scholarship, University of Wisconsin-Madison	2018
\$ 2,500	Inge and Ilouise Hill Research Fellowship	2017
\$ 2,000	Hazel Holtrop Natural Resources Scholarship	2012–2013
\$ 10,000	Calvin College Presidential Scholarship	2010–2014
\$ 2,500	Calvin College Heart and Mind Scholarship	2010–2012
\$ 1,000	Los Angeles Society for Coatings Technology Scholarship	2010–2014

Travel Awards

\$ 3,690	Cumulative sum of 9 awards from 8 organizations	2008–2019
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Honors

Best Dissertation Award, UW-Madison Department of Forest and Wildlife Ecology	2023
Rising Star Award, <i>Conservation Biology</i>	2021
Best Graduate Student Talk, Wisconsin Chapter of The Wildlife Society	2020
Outstanding Teaching by a Graduate Student, University of Alabama	2018

Prior Research Experience

Seasonal Research Technician

Cornell University	Piedra Blanca, Dominican Republic (woodpeckers)	2016
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Calvin College	Grand Rapids, MI (watershed restoration)	2015
Kansas State University	Wilmore, KS (prairie-chicken monitoring)	2015
Kansas State University	Meade, KS (grassland songbird surveys)	2013
Calvin College	Greenville, MI (botanical surveys)	2012
Calvin College	Grand Rapids, MI (land stewardship)	2011–2014
Behr Process Corporation	Santa Ana, CA (coatings lab)	2011

Teaching

Guest Lecturer

Michigan State University	Modern Statistical Models in Ecology (2 lectures)	2023
Colorado State University	Landscape Ecology (1 lecture)	2023
University of Wisconsin-Madison	Species Distribution Modeling (1 lecture)	2021
University of Wisconsin-Madison	Animal Population Dynamics (1 lecture)	2019
University of Alabama	Ecological Modeling (1 lecture)	2018
University of Alabama	Natural Resource Conservation (2 lectures)	2017

Teaching Assistant

University of Alabama	Introductory Biology (Lab)	2017–2018
<i>Taught two labs per semester for three semesters (35 students/section); rated as “Excellent” by 90% of students and “Above Average” by 7% of students in teaching evaluations.</i>		
University of Alabama	Human Anatomy (Lab)	2016
<i>Taught two labs (30 students/section); rated as “Excellent” by 62% of students and “Above Average” by 25% of students in teaching evaluations.</i>		

Environmental Educator

Cincinnati Nature Center	Cincinnati, OH	2015
Au Sable Institute for Environmental Studies	Mancelona, MI	2014
Calvin College Ecosystem Preserve	Grand Rapids, MI	2013–2014

Mentoring

Sydney Ceyzek	Undergraduate, Michigan State University	2023
Ayodele O’Uhuru	PhD student, University of Massachusetts-Amherst	2023
Steven Gurney	M.S. student, Michigan State University	2022–2023
Alyssa English	Undergraduate, University of Wisconsin-Milwaukee	2021
Colton Blankenship	Undergraduate, University of Alabama	2018
Caroline Beshears	Undergraduate, University of Alabama	2018
Melanie Florkowski	Undergraduate, University of Michigan	2017

Invited Seminars

Ecological Forecasting Initiative	“Integrated species distribution models” [Recording]	2023
Lincoln Park Zoo, Chicago, IL	“Wildlife interactions in the Anthropocene”	2022
Alabama Ornithological Society	“The Science and Art of Pishing”	2022

Selected Presentations (23 total) *underline = undergraduate or mentee coauthor*

Gilbert, N.A., C.M. Blommel, M.T. Farr, D.S. Green, K.E. Holekamp, E.F. Zipkin. 2023. A multispecies hierarchical model to integrate count and distance sampling data. International Mammal Congress, Anchorage, AK.

- Gurney, S., M. Nichols, S. Mayhew, D. Etter, **N.A. Gilbert**, D. Williams, S. Christensen. 2022. Sampling strategies affect the precision of abundance estimates for an unmarked deer population. The Wildlife Society, Spokane, WA.
- Gilbert, N.A.**, J.L. Stenglein, J.N. Pauli, B. Zuckeberg. 2022. Human disturbance compresses the spatiotemporal niche. Ecological Society of America, Montréal, Canada.
- English, A., **N.A. Gilbert**, B. Zuckeberg. 2021. Could northern forests serve as refugia for boreal species during an era of rapid climate change? WISCIENCE symposium, Madison, WI.
- Gilbert, N.A.**, J.L. Stenglein, B. Zuckeberg. 2020. Integrating harvest and citizen-science camera trap data to predict species distributions. Wisconsin Chapter of The Wildlife Society, Wisconsin Rapids, WI.
- Blankenship, C.D., **N.A. Gilbert**, P.F.B. Ferguson, W.D. Gulsby. 2018. Factors associated with occupancy of different age/sex classes of White-tailed Deer in the Black Belt Ecoregion. Alabama Chapter of the Wildlife Society, Millbrook, AL.
- Florkowski, M.R., **N.A. Gilbert**, P.F.B. Ferguson. 2017. A comparison of morning and evening point counts. American Ornithological Society, East Lansing, MI.
- Gilbert, N.A.**, P.F.B. Ferguson. 2017. Disturbance associated with exurban development does not create habitat for shrubland birds. American Ornithological Society, East Lansing, MI.
- Gilbert, N.A.**, D. Warners. 2012. Floral Inventory and Phenology at Flat Iron Lake Preserve. West Michigan Undergraduate Science Research Conference, Grand Rapids, MI.

Professional Development

Improv for Science Communication	Pedagogy elective, UW-Madison	2020
Teaching in a Diverse Classroom	Pedagogy elective, UW-Madison	2019
Interpretive Guide Certification	National Association for Interpretation	2015
Project WILD Teaching Certification	Au Sable Institute for Environmental Studies	2014

Service

Mentor	Mentored a high-schooler through the Mentor North program	2023–
Peer Review	Reviewed papers for 25 journals, including <i>Conservation Biology</i> , <i>Ecology</i> , & <i>Journal of Animal Ecology</i>	2020–
ECR Committee	Planned social events and research symposia for the Twin Ports Early Career Researchers organization	2022–
Mentor	Mentored an undergrad for summer research in WISCIENCE, a program for students from underrepresented groups	2021
Grad Rep	Organized social events and research symposia for Wisconsin Ecology at UW-Madison	2019–2021
Pen Pal	Wrote letters to elementary students to demystify scientific careers through the Letters to a Pre-Scientist organization	2018–2019
Science Olympiad	Wrote and proctored ecology exams for regional tournament	2017–2018
Bird Surveys	Conducted 1–3 survey routes per season for the USGS North American Breeding Bird Survey	2017–
Data Reviewer	Reviewed unusual data records for eBird	2010–2014
Bird Banding	Extracted and processed birds at five banding stations	2006–2018

References

Benjamin Zuckerberg | PhD adviser | bzuckerberg@wisc.edu
Professor, Department of Forest and Wildlife Ecology, University of Wisconsin-Madison

Elise Zipkin | Postdoctoral adviser | ezipkin@msu.edu
Associate Professor, Department of Integrative Biology, Michigan State University

Jennifer Stenglein | PhD committee member | jennifer.stenglein@wisconsin.gov
Research Scientist, Wisconsin Department of Natural Resources

Paige Ferguson | MS adviser | pfferguson@ua.edu
Assistant Professor, Department of Biological Sciences, University of Alabama