

# Teresa Pegan, PhD

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## Education

University of Michigan: PhD, Ecology and Evolutionary Biology	2023
Cornell University: BA, Ecology and Evolutionary Biology	2015

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## Appointments

Postdoctoral Fellow	2023 – present
Department of Ecology and Evolutionary Biology, University of Michigan	
Supervised by Dr. Benjamin Winger	

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## Fellowships, Grants, and Awards

### *Fellowships*

Rackham Predoctoral Fellowship Program	2022
NSF Graduate Research Fellowship Program	2018

### *Grants*

AMNH Chapman Research Grant	(\$2500)	2022
British Ornithologists Union Research Grant	(\$2228)	2022
UM EEB Departmental Block Grant	(\$4000)	2020
Society of Systematic Biology Grant	(\$1500)	2020
American Ornithological Society Hesse Award	(\$2320)	2019
Rackham Graduate Student Research Grant	(\$1500)	2019
UM EEB Departmental Block Grant	(\$2700)	2018
National Geographic Young Explorer's Grant	(\$5000)	2017
Explorer's Club Youth Activity Fund Grant	(\$2500)	2014
Rawlings Cornell Presidential Research Scholarship	(\$5000)	2013

### *Awards and Honors*

Best Student Talk, Midwest Population Genetics Conference	2023
University of Michigan Museum of Zoology Tinkle Award	2023
UM Graduate Teaching Certificate	2022
American Ornithological Society Kessel Publication Award (Winger and Pegan 2021)	2022
Honorable Mention, American Ornithological Society Student Talk Award	2021
UM Program in Biology Teaching Excellence Award (EEB 390 Evolution)	2019
American Ornithological Society Katma Award (Winger et al 2019)	2019
UM Program in Biology Teaching Excellence Award (EEB 433 Ornithology)	2018
US Student Fulbright Program, Semifinalist	2017
NSF Graduate Research Fellowship Program, Honorable Mention	2017
Wilson Ornithological Society Nancy Klamm Undergrad Presentation honorable mention	2016

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## Publications

*In prep.* **Pegan TM**, Jones AS, Kirchman JJ, Hudon J, Kimmitt AA, Weeks B, Ruegg K, Winger BM. Comparative population genomics reveals spatial structure in a sympatric avian species assemblage

*Submitted.* Winger BM, La Sorte FA, Hack MD, **Pegan TM**. Joint evolution of geographic range and phenology structures the annual cycles of migratory birds.

*In review.* Kimmitt AA, **Pegan TM**, Jones AW, Winker K, Winger BM. How Veeries vary: Whole genome sequencing resolves fine-scale genetic structure in a long-distance migratory bird, *Catharus fuscescens*. Preprint: <https://doi.org/10.1101/2023.07.25.550389>

*In review.* **Pegan TM**, Berv J, Gulson-Castillo ER, Kimmitt AA, Winger BM. The pace of mitochondrial molecular evolution varies with seasonal migration distance. <https://doi.org/10.1101/2023.08.01.551470>

15. Kimmitt AA, **Pegan TM**, Jones AW, Wacker, KS, Brennan CL, Hudon J, Kirchman JJ, Ruegg K, Benz BW, Herman R, Winger BM. 2023. Genetic evidence for widespread population size expansion in North American boreal birds prior to the Last Glacial Maximum. *Proceedings of the Royal Society B: Biological Sciences* 290 (20221334).

14. Winger BM, **Pegan TM**. 2021. Migration distance is a fundamental axis of the slow-fast continuum of life history in boreal birds. *Ornithology*. <https://doi.org/10.1093/ornithology/ukab043>  
\*Winner of the American Ornithology Society Kessel Award, 2022

13. Areta JI, Salvador SA, Gandoy FA, Bridge ES, Gorleri FC, **Pegan TM**, Gulson-Castillo ER, Hobson KA, Winkler DW. 2021. Rapid adjustments of migration and life history in hemisphere-switching cliff swallows. *Current Biology* 31(13):2914-2919.e2

12. **Pegan TM**, Winger BM. 2020. The influence of seasonal migration on range size in temperate North American passerines. *Ecography* 32(8):1191-1202.

11. Winkler DW, Nesbitt K, Andersen M, Ardia D, Belmaker A, Chang van Oordt D, Ferretti V, Forsman A, Gaul J, Llambías P, Orzechowski S, **Pegan TM**, Shipley JR, Stager M, Taff C, Uehling J, Verhoeven M, Vitousek M, Wilson M, Yoon HS. 2020. Full lifetime perspectives on the costs and benefits of lay date variation in tree swallows. *Ecology* 101(9):e03109.

10. **Pegan TM**, Winkler DW, Haussmann MF, Vitousek MN. 2019. Brief increases in corticosterone affect morphology, stress responses, and telomere length, but not post-fledging movements, in a wild songbird. *Physiological and Biochemical Zoology* 92(3):274-285.

9. Gulson-Castillo, E.R., **Pegan, T.M.**, Greig, E.I., Hite, J.M., Hruska, J.P., Kapoor, J.A., Orzechowski, S.C., Shipley, J.R., Winkler, D.W. 2019. Notes on nesting, territoriality and behaviour of broadbills (Eurylaimidae, Calyptomenidae) and pittas (Pittidae) in Tawau Hills Park, Sabah, Malaysian Borneo. *Bulletin of the British Ornithologists' Club* 139(1):8-27.

8. Winger BM, Auteri GG, **Pegan TM**, Weeks BC. 2019. A long winter for the Red Queen: rethinking the evolution of seasonal migration. *Biological Reviews* 94:737-752. \*Winner of the American Ornithology Society Katma Award, 2019

7. Orzechowski SCM, Shipley JR, **Pegan TM**, Winkler DW. 2019. Negligible effects of blood sampling on reproductive performance and return rates of Tree Swallows. *Journal of Field Ornithology* 90(1):21-38.

6. Gulson-Castillo, E.R., Pantiati, **Pegan, T.M.**, Winarni, N.L., Andriansyah. 2018. First photographs and sound recordings of the Snoring Rail *Aramidopsis plateni*. *BirdingAsia* 30: 60-64.

5. **Pegan TM**, Craig DP, Gulson-Castillo ER, Gabrielson RM, Bezner Kerr W, MacCurdy R, Powell SP, Winkler DW. 2018. Solar-powered radio tags reveal patterns of post-fledging site visitation in adult and juvenile Tree Swallows *Tachycineta bicolor*. **PLoS ONE** 13(11):e0206258.
4. **Pegan TM**, Gulson-Castillo ER, Biun A, Byington JI, Moyle RC, Tuh Yit Yu F, Wood EM, Winkler DW, Sheldon FH. 2018. An assessment of avifauna in a recovering lowland forest at Kinabalu National Park, Malaysian Borneo. **Raffles Bulletin of Zoology**. 66:110-131
3. Winkler DW, **Pegan TM**, Gulson-Castillo ER, Byington JI, Hruska JP, Orzechowski SC, Van Doren BM, Greig, EI, Wood EM. 2017. Collecting the Complete Specimen Package: Student-led expeditions as an educational and collections-building enterprise. In: Webster M, editor. **The Role of Collections in Ornithology: The Extended Specimen**. Studies in Avian Biology Series.
2. **Pegan TM**, Rumelt RB, Dzielski SA, Ferraro MM, Flesher LE, Young N, Freeman AC, Freeman BG. 2015. Asymmetric response of Costa Rican White-Breasted Wood-Wrens (*Henicorhina leucosticta*) to vocalizations from allopatric populations. **PLoS ONE**. 10(12):e0144949
1. **Pegan TM**, Hruska JP, Hite JM. 2013. A newly described call and mechanical noise produced by the Black-and-Crimson Pitta *Pitta ussheri*. **Forktail**. 29:160-162.

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## Presentations

American Ornithological Society Conference	15 minute talk	2023
Midwest Population Genetics	20 minute talk	2023
Evolution Conference	15 minute talk	2023
American Ornithological Society Conference	15 minute talk	2022
American Ornithological Society Conference (virtual)	15 minute talk	2021
Evolution Conference (virtual)	10 minute talk	2021
American Ornithological Society Conference	15 minute talk	2019
University of Michigan EEB Departmental Seminar	50 minute talk	2019
North American Ornithology Conference	15 minute talk	2016
American Ornithologists' Union Conference	poster	2015

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## Service and Outreach

Reviewer for: *Proceedings of the Royal Society B*, *Molecular Ecology*, *Ornithology*, *Ecology and Evolution*, *Journal of Ornithology*, *Biological Journal of the Linnean Society*, *NSF CAREER*, *National Geographic Society*, *IUCN World Heritage Outlook*

### *Service and Leadership*

American Ornithological Society Council	2021 – present
American Ornithological Society Student Affairs Committee	2021 – present
UM EEB Graduate student association (GREEBs) president	2020 – 2021
UM EEB Early Career Scientists Symposium committee member	2019 – 2020
UM EEB Executive Committee graduate student representative	2019 – 2020
UM EEB weekly lunch seminar co-coordinator,	2018 – 2019
Co-president, Cornell Expeditions in Field Ornithology	2013 – 2015
President, Birding Club at Cornell	2013 – 2015

### *Mentorship*

Supervision of independent research on wing avian morphology (1 undergraduate)	2020 – present
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Supervision of DNA extraction (2 undergraduates)	2021 – present
Supervision of environmental niche modeling (1 undergraduate)	2021 – 2022
UM Undergraduate Research Opportunity Program (2 undergraduates)	2018 – 2020

### *Outreach*

ID Day, University of Michigan Museum of Natural History	2018 – 2022
Michigan Audubon’s Young Birders Network presentation	2022
UM Museum of Zoology tours (Washtenaw Audubon Society, UM intro biology)	2020 – 2022
Golden-wing Society annual presentations, Cornell Lab of Ornithology	2013 – 2016
Migration Celebration, Cornell Lab of Ornithology	2015
Ornithology demonstrations, Marak Parak Middle School (Sabah, Malaysia)	2014
Expanding Your Horizons Workshop, Cornell University Museum of Vertebrates	2014
Parade of Students biennial presentations, Cornell Lab of Ornithology	2011 – 2013

### *Volunteer Work*

D-Town Farms Bioblitz	2019
Young Birders Event, Cornell Lab of Ornithology	2015 – 2016
World Series of Birding Fundraiser, Cornell University Lab of Ornithology	2013 – 2015
Cornell Outdoor Odyssey	2012 – 2014

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## **Employment History**

Graduate Student Instructor, University of Michigan <i>Led discussions and lab sections in Ecology, Evolution, and Ornithology</i>	2017 – 2019
Field research technician, Cornell University <i>Monitored Cliff Swallows breeding in Argentina and deployed geolocators</i>	2016 – 2017
Lab manager and field crew leader, Cornell University <i>Managed data and field crew for long-term experimental Tree Swallow population</i>	2015 – 2016
Field assistant, Cornell University <i>Monitored breeding biology of Tree Swallows and assisted with experiments</i>	2013 – 2014
Photo/Captions Manager, Bird Families of the World (Lynx Edicions, 2015) <i>Solicited photo donations, chose photos, and organized photo files for book</i>	2011 – 2015

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## **Technical Expertise**

### *Graduate work to date*

- Bioinformatics of NGS whole genomic data
- Population genetic simulation
- Phylogenetic comparative analysis
- Multivariate statistical modeling
- DNA extraction and whole genome NGS library preparation
- Collection and preparation of avian museum specimens, including “extended specimens”
- Museum of Zoology Bird Division field work, Manitoba and Michigan
- Species distribution modeling and spatial analyses

### *Prior to graduate work*

- Deployment of radio tags and geolocators

Bird banding and morphological measurement of live birds  
Nesting biology monitoring  
Audio and video recording of birds  
Morphological and spectrophotometric measurement of avian museum specimens  
International field work permitting and logistics  
Corticosterone hormone field manipulation and lab assays  
Playback experiments

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### **Teaching Experience**

Graduate Teaching Certificate	University of Michigan	2022
Guest lecture	University of Michigan (Ornithology)	2022
Guest lecture	University of Michigan (Biology of Animal Migration)	2022
Graduate student instructor	University of Michigan EEB 390 (Evolution)	2019
Graduate student instructor	University of Michigan EEB 433 (Ornithology)	2018
Graduate student instructor	University of Michigan EEB 372 (Ecology Lab)	2017
Undergraduate teaching assistant	Cornell University EEB 4750 (Ornithology)	2014

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### **Professional Societies**

British Ornithologists' Union	2021 – present
Society of Systematic Biologists	2019 – present
Society for the Study of Evolution	2019 – present
Wilson Ornithological Society	2019 – present
American Ornithological Society	2015 – present

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