

# Liam Akerlof Berigan

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## Education

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| 2020 – present | Ph.D. | Wildlife Ecology<br>University of Maine, Department of Wildlife, Fisheries, and Conservation Biology<br>Dissertation title: “ <i>American Woodcock habitat use, flight altitude, and migratory connectivity throughout their range</i> ”<br>Advisors: Erik Blomberg & Amber Roth<br>Advanced to candidacy- September 2022<br>Expected graduation- May 2024 |
| 2017 – 2019    | M.S.  | Biology<br>Kansas State University, Division of Biology<br>Thesis title: “ <i>Dispersal, reproductive success, and habitat use by translocated lesser prairie-chickens</i> ”<br>Advisor: David Haukos  |
| 2013 – 2017    | B.S.  | Biology<br>Cornell University, College of Agriculture and Life Sciences<br><i>Distinction in Research</i> due to completion of an honors thesis  |

## Publications and research products

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### *Peer reviewed journal articles*

- Teige EC, **Berigan LA**, Aulicky SH, Sullins DS, Haukos DA, Fricke KA, Reitz JH, Rossi LG. 2023. Assessment of lesser prairie-chicken translocation through survival and lek counts. *Wildlife Society Bulletin*. e1493.
- Blomberg EJ, Fish AC, **Berigan LA**, Roth AM, Rau R, Clements SJ, Balkcom G, Carpenter B, Costanzo G, Duguay J, Graham CL, Harvey W, Hook M, Howell DL, Maddox S, McWilliams S, Meyer SW, Nichols TC, Pollard JB, Roy C, Slezak C, Stiller J, Tetreault M, Williams L. 2023. The American woodcock singing ground survey

largely conforms to the phenology of male woodcock migration. *Journal of Wildlife Management*. 87(8):e22488.

**Berigan LA**, Aulicky SH, Teige EC, Sullins DS, Haukos DA, Fricke KA, Reitz JH, Rossi LG, Schultz KA, Ricketts AM. 2022. Availability of lesser prairie-chicken nesting habitat impairs restoration success. *Wildlife Society Bulletin*. e1379.

**Berigan LA**, Greig EI, Bonter DN. 2020. Urban House Sparrow (*Passer domesticus*) populations decline in North America. *Wilson Journal of Ornithology*. 132:248–250.

#### *Manuscripts in review or revision*

**Berigan LA**, Aulicky CSH, Teige EC, Sullins DS, Haukos DA, Fricke KA, Reitz JH, Schultz KA, Rice M, Tanner E. Lesser prairie-chicken dispersal after translocation: implications for restoration and population connectivity. *In revision at Ecology and Evolution*.

**Berigan LA**, Fish AC, Roth AM, Williams LM, Duren KR, Blomberg EJ. Joint life-stage-specific species distribution models better facilitate habitat conservation for a short distance migratory bird. *In review at Biological Conservation*.

Clements SJ, **Berigan LA**, Fish AC, Darling RL, Roth AM, Blomberg EJ, and 22 other coauthors. Lack of evidence for discrete migration strategies in American Woodcock suggests potential for species' resilience. *In revision at Ornithology*.

Fish AC, Roth AM, Balkcom G, **Berigan LA**, Brunette KL, Clements SJ, and 15 other coauthors. American woodcock (*Scolopax minor*) migration phenology in Eastern North America: implications for hunting season timing. *In revision at the Journal of Wildlife Management*.

#### *Manuscripts in preparation*

**Berigan LA**, Clements SJ, Darling RL, Fish AC, Roth AM, Blomberg EH, and 18 other coauthors. Adapting hidden Markov models to data from small GPS transmitters for tracking migratory birds. *In preparation for submission to Methods in Ecology and Evolution*.

#### *Other research products*

**Berigan LA**, Fish AC, Darling R, Clements S, Slezak CR, Filkins K, Blomberg EJ, Roth AM, McWilliams SR, Straub J. 2022. *Annual report*. Eastern Woodcock Migration Research Cooperative.

**Berigan LA**, Fish AC, Slezak C, Filkins K, Blomberg EJ, Roth AM, McWilliams SR. 2021. *Annual report*. Eastern Woodcock Migration Research Cooperative.

Developed the W-PAST decision support tool for woodcock management in Pennsylvania in collaboration with the Pennsylvania Game Commission. 2021. Available at [woodcock.shinyapps.io/W-PAST](http://woodcock.shinyapps.io/W-PAST).

Created interactive web applications for public access to Eastern Woodcock Migration Research Cooperative data. 2020. Available at [www.woodcockmigration.org/migration.html](http://www.woodcockmigration.org/migration.html) and [www.woodcockmigration.org/explore-data.html](http://www.woodcockmigration.org/explore-data.html).

Created and maintained a public repository for Eastern Woodcock Migration Research Cooperative codebase, 2022 – present. Available at [github.com/EWMRC](https://github.com/EWMRC).

Expanded and updated the website for the Eastern Woodcock Migration Research Cooperative, 2020 – 2022. Available at [www.woodcockmigration.org](http://www.woodcockmigration.org).

Updated and maintained a public repository for Eastern Woodcock Migration Research Cooperative data, 2020 – 2022. Available at [www.movebank.org](http://www.movebank.org).

## Fellowships, grants, and awards

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2023	<b>Outstanding Graduate Student Award</b> , UMaine Department of Wildlife, Fisheries, and Conservation Biology	\$600
2023	Susan J. Hunter Presidential Teaching Assistantship	\$10,000
2022	Canadian-American Center Fieldwork Grant	\$963
2022	New England – Atlantic Provinces – Quebec Fellowship, UMaine Canadian-American Center	\$28,931
2019	<b>Student of the year</b> , Kansas Cooperative Fish and Wildlife Research Unit	–
2019	Conference travel grant, American Ornithological Society	\$490
2018 – 2019	Registration scholarships, Kansas Chapter of The Wildlife Society	\$100
2018	Conference travel grant, Kansas Chapter of The Wildlife Society	\$450
2018	Conference travel grant, K-State Graduate Student Council	\$400
2018	Conference travel grant, K-State College of Arts and Sciences	\$800

2016	Morley Student Research Fund Grant, Cornell Lab of Ornithology	\$250
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**Total funding secured:    \$42,984**

## Teaching experience

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### *Teaching (instructor of record)*

2023	Wildlife Population Dynamics Lab (2 sections; UMaine)
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### *Teaching assistantships*

2017 – 2019	Principles of Biology (4 sections; K-State)
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2017	Introductory Biology: Ecology and the Environment (1 section; Cornell)
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2016	Field Ornithology (1 section; Shoals Marine Lab)
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### *Training received*

Spring 2022	Graduate Teaching Academy (21 hours; UMaine) Focusing on student-centered learning and inclusive teaching
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Fall 2017	Active learning workshop (3 hours; K-State)
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### *Workshops taught*

Fall 2022	Introduction to scientific analysis of data for the Cobscook Institute Half day interactive workshop focused on teaching scientific skills to high school students
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## Contributed presentations and posters

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- Berigan LA, Clements SJ, Darling RL, Fish AC, Slezak CR, McWilliams SR, Roth AM, Blomberg EJ. 2023. *Adapting hidden Markov models to data from small GPS transmitters*. [Oral Presentation] American Ornithological Society Annual Meeting, London, ON.
- Berigan LA, Fish AC, Roth AM, Williams LM, Duren KR, Blomberg EJ. 2022. *Using joint life-stage-specific species distribution models to facilitate habitat conservation for American Woodcock in Pennsylvania*. [Poster] Maine Chapter Meeting of The Wildlife Society, Orono ME.
- Berigan LA, Fish AC, Roth AM, Slezak CR, McWilliams SR, Blomberg EJ. 2022. *Revisiting the role of stopover when assessing migratory connectivity: an American Woodcock case study*. [Oral Presentation] American Ornithological Society Annual Meeting, San Juan PR.
- Berigan LA, Fish AC, Roth AM, Blomberg EJ. 2021. *Widespread use of satellite transmitters reveals the dynamic nature of American Woodcock migration timing*. [Oral Presentation] Maine Chapter Meeting of The Wildlife Society, Orono ME.
- Berigan LA, Fish AC, Roth AM, Williams LM, Duren KR, Blomberg EJ. 2021. *Site prioritization for American Woodcock management by comparing breeding and migratory habitat distribution models*. [Oral Presentation] The Wildlife Society Annual Conference, virtual.
- Berigan, LA., Aulicky CSH, Sullins DS, Haukos DA, Fricke K, Reitz J, Rossi L, Schultz K. 2019. *Overcoming post-release dispersal to successfully translocate lesser prairie-chickens*. [Oral Presentation] The Wildlife Society Annual Conference, Reno NV.
- Berigan LA, Aulicky CSH, Sullins DS, Haukos DA, Fricke K, Reitz J, Rossi L, Schultz K. 2019. *Landscape composition explains high rates of dispersal in translocated lesser prairie-chickens*. [Oral Presentation] American Ornithological Society 2019 Meeting, Anchorage AK.
- Berigan LA, Aulicky CSH, Sullins DS, Haukos DA, Fricke K, Reitz J, Rossi L, Schultz K. 2019. *Conservation implications of lesser prairie-chicken habitat selection on the Cimarron and Comanche National Grasslands*. [Oral Presentation] Kansas Natural Resources Conference 2019, Manhattan KS.
- Berigan LA, Aulicky CSH, Sullins DS, Haukos DA, Fricke K, Reitz J, Rossi L, Schultz K. 2018. *Translocation of lesser prairie-chickens: does lek presence limit dispersal?* [Oral Presentation] The Wildlife Society Annual Conference, Cleveland OH.
- Berigan LA, Aulicky CSH, Sullins DS, Haukos DA, Fricke K, Reitz J, Rossi L, Schultz K. 2018. *Role of natal habitat preference induction in prairie-grouse translocation success*. [Oral Presentation] 14th International Grouse Symposium, Logan UT.

Berigan LA, Aulicky CSH, Haukos DA, Sullins DS, Fricke K. 2018. *Lesser prairie-chicken translocation: Minimizing dispersal to ensure translocation success*. [Oral Presentation] Kansas Natural Resources Conference 2018, Manhattan KS.

Berigan LA, Bonter DN. 2016. *Citizen science provides insights into the decline of House Sparrows in North America*. [Poster presentation] North American Ornithological Conference 2016, Washington D.C.

## Additional research experience

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| 2016 | Herring Gull and Common Eider survival and spatial ecology.<br>Intern with Dr. David Bonter at Shoals Marine Lab. |
| 2016 | Verdin paternity testing and response to playback.<br>Field technician in Arizona with Dr. Emma Greig.            |
| 2016 | Golden-winged Warbler geolocator application.<br>Field technician in Guatemala with Dr. Ruth Bennett.             |
| 2015 | Atlantic Puffin and Common/Arctic/Roseate Tern demographic estimates.<br>Field technician with Project Puffin.    |

## Public engagement

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### *Public presentations*

Berigan LA, Filiberti E. 2023. *Migratory Marvels: Understanding Woodcock and Golden-winged Warbler Migration*. [Oral presentation] Downeast Audubon, Ellsworth ME.

Berigan LA. 2022. *Meet the Timberdoodle!* [Oral presentation] Friends of Missisquoi National Wildlife Refuge & Green Mountain Audubon Society, Swanton VT.

Berigan LA. 2022. *What can woodcock teach us about bird migration?* [Oral presentation] Harris Center for Conservation Education, Hancock NH.

### *News articles*

Liam Berigan: Can-Am fellow researching bird migration on the East Coast. *UMaine Canadian-American Center*, Nov. 17<sup>th</sup> 2022.

Study finds even the common house sparrow is declining. *Cornell College of Agriculture and Life Sciences*, Feb. 11<sup>th</sup> 2022. Circulated by ScienceDaily, Phys.org, and the Grand Forks Herald.

## Academic service

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### *Committee & service work*

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| 2023           | The Wildlife Society Diversity Award Review Committee   |
| 2021 – present | Event Coordinator, DEI Committee, Department of Wildlife, Fisheries, and Conservation Biology, UMaine <ul style="list-style-type: none"><li>- Developed, budgeted, and organized an offsite for graduate students (20 participants)</li><li>- Designed and implemented a department-wide community building event (60 participants)</li></ul> |
| 2022 – 2023    | Education Committee, Maine Chapter of The Wildlife Society  |
| 2022 – 2023    | Co-coordinator, R Coding Club, UMaine <ul style="list-style-type: none"><li>- Three 60-minute lectures on best coding practices</li><li>- 20 hours of one-on-one mentorship with graduate &amp; undergraduate students</li></ul>  |
| 2022 – 2023    | Seminar Committee, Department of Wildlife, Fisheries, and Conservation Biology, UMaine <ul style="list-style-type: none"><li>- Recruited and facilitated two seminar speakers for the department seminar series</li><li>- Hosted a workshop, led by one of the speakers, on DEI in wildlife (20 participants)</li></ul>                       |
| 2021 – 2022    | DEI Committee, UMaine Graduate Student Government   |
| 2021           | Senator, UMaine Graduate Student Government <ul style="list-style-type: none"><li>- Led a community mobilization effort to prevent travel grant assistance from being distributed as taxable income</li></ul>   |
| 2017 – 2018    | Travel Grant Committee, K-State Biology Graduate Students Association   |

### *Membership in professional societies and working groups*

- The Wildlife Society
  - Maine Chapter
  - Diversity, Equity, and Inclusion Working Group
- American Ornithological Society

### *Peer reviewer*

Wilson Journal of Ornithology (1 manuscript).

## References

1. *Erik Blomberg*

Ph.D. co-advisor

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2. *Amber Roth*

Ph.D. co-advisor

Associate Professor of Forest Wildlife Management

Department of Wildlife, Fisheries, and Conservation Biology & School of Forest Resources

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3. *Dave Haukos*

M.S. advisor

Unit Leader & Associate Professor

Kansas Cooperative Fish and Wildlife Research Unit

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