

# Scott W. Yanco

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Smithsonian's National Zoo and  
Conservation Biology Institute

*Migratory Bird Center*

3001 Connecticut Ave., NW

Washington, DC 20008

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## Education

2016-2021	Ph.D.	University of Colorado Denver <b>Integrative and Systems Biology</b>
2002-2006	B.A.	Colorado College <b>Biology</b>

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## Relevant Employment

2024-Present	Research Ecologist, Smithsonian Institution
2023-2024	Postdoctoral Research Fellow, University of Michigan
2023	Associate Research Scientist, Yale University
2021-2023	Postdoctoral Associate, Yale University
2010-2022	Owner/Biologist, ClearPath Environmental, LLC
2020-2021	Research Assistant, University of Colorado Denver
2016-2021	Teaching Assistant, University of Colorado Denver
2004-2015 (seasonal)	Research Assistant, Colorado College Department of Biology
2009-2010	Biologist, Natural Resources Consulting/STANTEC
2007-2009	Biologist, ARCADIS U.S.
2003	Teacher Naturalist, Massachusetts Audubon Society

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## Refereed Publications

(\*denotes equal contribution; †denotes mentees)

[27] Oliver, RY\*, **SW Yanco\***, & 90 co-authors. 2026. *Interacting effects of human presence and landscape modification on birds and mammals*. *Science* 392(6800)  
<https://science.org/doi/10.1126/science.adq3396>

Press: Covered by >25 outlets including the [New York Times](https://www.nytimes.com)

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- [26] Weeks, BC, JS Berv, Y Cho, I Clark, M Cole, AM Ferentinos, J Fuller, M Guza, T Hammond, C Hetrick, Z Li, CM Probst, **SW Yanco**, M Ziebell, H-X Zou, and M Zimova. 2025 *Exploring the data demands and global opportunities for reconstructing morphological responses to climate change*. *Evolutionary Ecology* 40:11 <https://doi.org/10.1007/s10682-025-10368-x>
- [25] Rogers, W<sup>†</sup>, **SW Yanco** & W Jetz. 2025. *Choices to landscapes: Mechanisms of animal movement scale to landscape patterns*. *Ecology Letters* 28:e70279 <https://doi.org/10.1111/ele.70279>
- [24] R Patchett, BJ Smith, CB Thaxter, NHK Burton, BH Franke, **SW Yanco**, RY Oliver, D Ellis-Soto, MA Tucker, A Loveridge, J Sommerfeld, F Ossi, GD Clewley, K Camphuysen, P Desmet, R Ramos, J González-Solís, RMW Green, EM Humphreys, DT Johnston, L Lens, W Müller, NJ O’Hanlon, F Robin, Á Sallent, J Shamoun-Baranes, EWM Stienen, F Verbruggen, C Rutz. 2025. *Habitat selection of gulls in response to sudden, large-scale changes in human mobility*. *Proc. Of the Royal Society B* 292:20252482
- [23] Lu, M, **SW Yanco**, BS Carlson, K Winner , JM Cohen , D Ellis Soto , S Sharma , W Rogers , W Jetz. 2025. *Scaling ecological niches from individuals to populations and beyond*. *PNAS* 122(35) <https://doi.org/10.1073/pnas.2425582122>
- [22] Shaw, A, & 47 co-authors [including **SW Yanco**]. 2025. *Perceived and observed biases within scientific communities: a case study in movement ecology*. *Proc. of the Royal Society B* 292:20250679 <https://doi.org/10.1098/rspb.2025.0679>
- [21] Contina, A, **SW Yanco**, AK Pierce, HB Vander Zanden, CA Stricker, GJ Bowen, MB Wunder. 2025. *Dynamic environments generate geographic fluctuations in population structure of an inland shorebird*. *Ecosphere*: 16(6) e70312 <https://doi.org/10.1002/ecs2.70312>
- [20] Parker, T., H. Fraser, S. Nakagawa, E. Gould, S. Griffith, P. Vesk, F. Fidler and 200+ co-authors in alphabetical order, including **SW Yanco**. 2025. *Same data, different analysts: variation in effect sizes due to analytical decisions in ecology and evolutionary biology*. *BMC Biology* 23(35) <https://doi.org/10.1186/s12915-024-02101-x>
- [19] Dias, T, N Lemoine, **SW Yanco**, M Zimova, BM Winger, R Bay, and BC Weeks. 2025. *Long-term increases in wing length occur independently of changes in climate and climate-driven shifts in body size*. *Proc. of the Royal Society B*: 292:2039 <https://doi.org/10.1098/rspb.2024.2556>
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- [18] **Yanco, SW**, C Rutz, B Abrahms, NW Cooper, PP Marra, T Mueller, BC Weeks, M Wikelski, RY Oliver. 2025. *Tracking individual animals can reveal the drivers of species loss*. *Trends in Ecology & Evolution* 40(1): 47-56  
<https://doi.org/10.1016/j.tree.2024.09.008>  
**Press:** Covered by 7 outlets including [WEMU Issues of the Environment](#)
- [17] Cooper, N., **SW Yanco**, CS Rushing, TS Sillett, PP Marra. 2024. *Winter and summer conditions induce carry-over effects on survival across multiple seasons in two migratory bird species*. *Current Biology* 34(12): 5097-5103.e3  
<https://doi.org/10.1016/j.cub.2024.09.015>
- [16] **Yanco, SW**, RY Oliver, F Iannarilli, BS Carlson, G Heine, U Mueller, N Richter, B Vorneweg, Y Andryushchenko, N Batbayar, M Dagys, M Desholm, B Galtbalt, AE Gavrillov, OA Goroshko, EI Ilyashenko, VY Ilyashenko, J Månsson, EA Mudrik, T Natsagdorj, L Nilsson, S Sherub, H Skov, T Sukhbaatar, R Zydalis, M Wikelski, W Jetz\*, I Pokrovsky\*. 2024. *Migratory birds modulate niche tradeoffs in rhythm with seasons and life history*. *PNAS* 121(41).  
<https://doi.org/10.1073/pnas.231682712>  
**Press:** Covered by >5 outlets including [Discover Magazine](#) and [Popular Science](#)
- [15] Linek, N\*, **SW Yanco\***, T Volkmer, M Wikelski, and J Partecke. 2024. *Migratory lifestyle carries no added overall energy cost in a partially migratory songbird*. *Nature Ecology & Evolution* <https://doi.org/10.1038/s41559-024-02545-y>  
**Press:** Covered by >10 outlets including [Popular Science](#) and [New York Times](#)
- [14] Wikelski, M, M Quetting, J Bates, T Berger-Wolf, G Bohrer, L Börger, T Chapple, MC Crofoot, SC Davidson, DKN Dechmann, D Ellis-Soto, ER Ellwood, W Fiedler, A Flack, B Fruth, N Franconi, RW Havmøller, J Hirt, N Hussey, F Iannarill, M Landwehr, ME Müller, T Müller, U Müller, R Oliver, J Partecke, L Pokrovskaya, DR Rubenstein, C Rutz, K Safi, A Santangeli, L van Schalkwyk, A Sequeira, T Ramesh, P Viljoen, KA Wasik, **SW Yanco**, and R Kays. 2024. *Introducing a Unique Animal ID and Digital Life History Museum for Wildlife Data*. *Methods in Ecology and Evolution* <https://doi.org/10.1111/2041-210X.14407>
- [13] AK Pierce\*, **SW Yanco\***, MB Wunder. 2024. *Migration alters energetic trade-off optimization and shapes life history*. *Ecology Letters*, 27, e14392.
- [12] Carello, C and **SW Yanco**. 2023. *Early successional forests support a unique composition of avian species and are especially important for migratory species*. *Journal of Tropical Ecology* 39: e22.
- [11] Gábor, L., W. Jetz, A. Zarzo-Arias, K. Winner, **SW Yanco**, S. Pinkert, C. J. Marsh, J. Mäkinen, D. Rocchini, V. Barták, S. Sharma, V. Moudrý. 2023. *Species distribution*
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- models affected by positional uncertainty in species occurrences can still be ecologically interpretable. Ecography 2023: e06358*
- [10] Contina, A, AK Pierce, **SW Yanco**, ES Bridge, JF Kelly, MB Wunder. 2022. *Application of stable isotopes to study movement ecology and diet variation in a migratory songbird. Journal of Field Ornithology 93(4):6*
- [9] Jetz W, Tertitski G, Kays R, Mueller U, Wikelski M, and Supporting authors [including **SW Yanco**]. 2022. *Biological Earth observation with animal sensors. Trends Ecol. Evol. 2022;37: 293–298. doi:10.1016/j.tree.2021.11.011*
- [8] **Yanco, SW\***, AK Pierce\*, MB Wunder. 2022. *Bioenergetics of seasonality suggests life history diversity in terrestrial animals. Ecography 10.1111/ecog.05900.*
- [7] **Yanco, SW**, BD Linkhart, PP Marra, M Mika, M Ciaglo, A Carver, MB Wunder. 2021. *Niche dynamics suggest ecological factors influencing migration in an insectivorous owl. Ecology 10.1002/ecy.3617*
- [6] Ciaglo, M<sup>†</sup>, R Calhoun<sup>†</sup>, **SW Yanco**, C Stricker, M Wunder, B Linkhart. 2020. *Evidence of fall prospecting in a long-distance migrant. Ecology and Evolution 11: 599-611*
- [5] Contina, A, **SW Yanco**, AK Pierce, M DePrenger-Levin, MB Wunder, AM Neophytou, CP Lostroh, BM Benito, J Chipperfield, RB O’Hara, CJ Carlson. 2020. *Comment on “A global-scale ecological niche model to predict SARS-CoV-2 coronavirus infection rate”, author Coro. Ecological Modelling 436: 109288*
- [4] **Yanco, SW**, A. McDevitt, C. Trueman, L Hartley, and MB Wunder. 2020. *A modern method of multiple working hypotheses to improve inference in ecology. R. Soc. open sci. 7200231*
- [3] **Yanco, SW** and BD Linkhart. 2018. *Changing fire regimes and faunal responses: Post-burn habitat use by Flammulated Owls in Colorado. In: Shuford, WD, Gill, RE Jr., and Handel CM, eds. Trends and Traditions: Avifaunal Change in Western North America. Studies of Western Birds 3. Western Field Ornithologists, Camarillo, CA. (invited paper)*
- [2] Linkhart, BD, JW Fox, and **SW Yanco**. 2016. *Migration timing and routes, and wintering areas of Flammulated Owls. Journal of Field Ornithology 87 (1): 42-54.*
- [1] Linkhart, BD, EM Evers, JD Megler, EC Palm, CM Salipante, and **SW Yanco**. 2008. *First observed instance of polygyny in Flammulated Owls. Wilson Journal of Ornithology 120 (3): 645-648.*
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## Preprints and Manuscripts in Review

Lopez, FG, **SW Yanco**, NW Cooper. *Assessing risk of predation for endangered Great Lakes Piping Plovers (*Charadrius melodus*) using Merlin (*Falco columbarius*) movement and habitat data.* In revision

Potts, JR, L Borger, MA Tucker, F Ossi, **SW Yanco**, D Ellis-Soto, T Müller, RY Oliver, MH Alves, W Arnold, N Attias, G Bastille-Rousseau, JL Belant, JD Blount, DE Beyer, F Cagnacci, S Chamaille-Jammes, AN Chan, EK Cole, JS Cornils, RC de Paula, V DeNicola, ALJ Desbiez, SR Dewey, D Drake, M Egan, JAJ Eikelboom, M Farmer, M Garel, JR Goheen, HP Hansen, L Haugaard, M Hebblewhite, M Heim, M Ježek, L Jordán, DN Kamaru, M Krofel, TN LaSharr, P Leimgruber, A Loison, RA Long, M-C Loretto, P Marchand, E Meisingset, J Melzheimer, KL Monteith, JJ Morgan, RM Mortensen, R Mueller, A Mysterud, A Olejarz, T Oliveira, M Panzacchi, R Portas, H Potocnik, H Prins, LR Prugh, N Ranc, R Roeder, CM Rolandsen, Ç Şekercioğlu, A Selimovic, R Smiley, EJ Solberg, O Strand, P Sunde, C Toïgo, B Van Moorter, TL Verzuh, B Wachter, BL Wagler, J Whittington, CC Wilmers, G Wittemyer, and C Rutz. *Understanding mammal avoidance of human settlements.* In revision

Vendrow, E., J Chae, R Kurinchi-Vendhan, I Eckert, J Hall, M Jarzyna, R Miyajima, R Oliver, L Pollock, L Schrack, **SW Yanco**, OM Aodha, S Beery. *INQUIRE-Search: A Framework for Interactive Discovery in Large-Scale Biodiversity Databases.* In Review

Preprint available: <https://doi.org/10.48550/arXiv.2511.15656>

Beltran, RS, **SW Yanco**, RY Oliver, AM Kilpatrick. *A framework for understanding how and why animals die.* In Review

Preprint available: <https://ecoevorxiv.org/repository/view/11457>

Probst, CP, **SW Yanco**, I Clark, M Ziebell, M Furst, SA Mackenzie, I Ibáñez, BC Weeks. *Insect collapse alters body size and the costs of phenological mismatch in a migratory bird.* In Revision

Sutton, MO, TL George, JF Saracco, **SW Yanco**, JA LaManna. *Global climate cycles induce continental effects on avian survival in North America.* Submitted

Kay, J, S Bar, EO Aikens, M Becker, F Cagnacci, J Cohen, SW Forrest, J Kendall-Bar, M Lucas, M Overcast, MS Palmer, W Rogers, NJ Russo, C Rutz, LT Beumer, MB Brown, Y-C Chan, SC Davidson, D Ellis-Soto, AG Hertel, R Kays, B Koger, G Mikaberidze, T Mueller, R Oliver, T Papenbrock, R Patchett, JA Stabach, D Taylor, **SW Yanco**, S Beery. *MoveBench: A benchmark for global-scale wildlife movement forecasting.* Submitted

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## Other Publications

**Yanco, SW.** 2022. *Small grants like DFO's increase fair access for students to do vital avian research.* *Lark Bunting* 58 (1): 22-23.

**Yanco, SW.** 2021. *South for the winter: the basics of fall migration.* *Colorado Birds* 55 (4): 213-217

**Yanco, SW,** ER Pansing, AK Pierce, MB. Wunder. *Better models make for softer landings: A comment on Yeh et al. 2019.* *BMJ Rapid Response to Yeh et al.* *BMJ* 2018;363:k5094.

Michonneau et al. [including **SW Yanco**] 2019. *datacarpentry/R-ecology-lesson: Data Carpentry: Data Analysis and Visualization in R for Ecologists, June 2019.* doi: [10.5281/zenodo.3264888](https://doi.org/10.5281/zenodo.3264888), <http://datacarpentry.org/R-ecology-lesson/>.

**Yanco, SW** and Pansing, E. 2018. *Everything is a model.* *Rapid Ecology.* URL: <https://rapidecology.com/2018/09/05/everything-is-a-model/>

**Yanco, SW.** 2018. *How a tiny migratory owl can teach us about the changing role of fire in the American west.* *The Lark Bunting* 54 (5).

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## Grants

*Fifteen grants awarded, total: \$945,370*

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|------|-----------|--|
| 2025 | \$248,863 | Maximizing benefits of Kirtland's Warbler habitat restoration and management for multiple bird species of conservation and recreational importance.<br><i>U.S. FWS, Great Lakes Fish and Wildlife Restoration Act</i><br><b>Role: Co-PI</b>                    |
| 2023 | \$316,521 | Enhancing our understanding of Kirtland's Warbler population dynamics through improved parameter estimation and use of a full-annual-cycle integrated population model<br><i>U.S. FWS, Great Lakes Fish and Wildlife Restoration Act</i><br><b>Role: Co-PI</b> |
| 2021 | \$83,368  | Documenting post-breeding survival of Kirtland's Warblers to inform a full annual cycle integrated population model<br><i>U.S. FWS, Upper Mississippi/Great Lakes Joint Venture</i><br><b>Role: Key Personnel</b>  |

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2020	\$2,000	Drivers of flammulated owl movement behaviors in Colorado <i>Denver Field Ornithologists</i> <b>Role: PI</b>
2020	\$1,500	Ecological drivers of multi-scale movements in a sensitive raptor. <i>Colorado Field Ornithologists</i> <b>Role: PI</b>
2019	\$2,000	Drivers of flammulated owl movement behaviors in southern Colorado <i>Denver Field Ornithologists</i> <b>Role: PI</b>
2019	\$114,736	Assessing influences of prescribed fire within the Hot Creek RNA on the demography, movement patterns, and habitat use of Flammulated Owls. <i>Challenge Cost Share between U.S. Forest Service and Colorado College.</i> <b>Role: Site manager</b>
2019	\$1,000	Proximate ecological drivers of habitat selection behavior by a sensitive raptor. <i>Colorado Field Ornithologists</i> <b>Role: PI</b>
2019	\$9,600	Migratory connectivity of Flammulated Owls. <i>Migratory Connectivity Project, Smithsonian Conservation Biology Institute (in-kind valuation)</i> <b>Role: PI</b>
2018	\$1,000	Multi-scale habitat selection behavior by a sensitive raptor following prescribed fire. <i>Colorado Field Ornithologists</i> <b>Role: PI</b>
2018	\$1,500	Multi-scale avian habitat selection: detecting process from pattern. <i>Denver Field Ornithologists</i> <b>Role: PI</b>
2018	\$6,000	Migratory routes and timing of Flammulated Owls.

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		<i>Migratory Connectivity Project, Smithsonian Conservation Biology Institute (in-kind valuation)</i>
		<b>Role: PI</b>
2017	\$2,100	Spatially dynamic habitat selection in Flammulated Owls. <i>Denver Field Ornithologists</i>
		<b>Role: PI</b>
2015	\$147,682	Assessing influences of prescribed fire within the Hot Creek RNA on the demography, movement patterns, and habitat use of Flammulated Owls. <i>Challenge Cost Share between U.S. Forest Service and Colorado College.</i>
		<b>Role: Site manager</b>
2007	\$7,500	Territory size and habitat use by Flammulated Owls in a recently burned Forest <i>U.S. Forest Service</i>
		<b>Role: Co-investigator</b>

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## Software Authored

GitHub: <https://github.com/syanco>

<i>pinpointreadR</i>	R Package: Convenience functions for reading Lotek PinPoint GPS tag data into R. Available at: <a href="https://github.com/syanco/pinpointreadR">https://github.com/syanco/pinpointreadR</a>
<i>checkyourself</i>	R Package: Functions to run simple individual-based simulation models in spatial ecology. Available at <a href="https://github.com/syanco/checkyourself">https://github.com/syanco/checkyourself</a>

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## Invited Seminars

2026	Rutgers University
2025 ( <i>cancelled</i> )	University of California Santa Barbara
2025	Virginia Tech <a href="#">[link]</a>
2025	Cary Institute of Ecosystem Studies <a href="#">[link]</a>
2024	Smithsonian's National Zoo and Conservation Biology Institute
2024	Arkansas State University, Department of Biological Sciences

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2023	Smithsonian's National Zoo and Conservation Biology Institute
2022	Yale University, Yale Institute for Biospheric Studies

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## Workshops, Symposia, and Organized Sessions

2023	<i>Automating ornithology: Advancing our understanding of avian ecology through automated radio telemetry.</i> Organized Oral Session at American Ornithological Society – Society of Canadian Ornithologists Joint Meeting. London, Ontario, Canada
2022	<i>NASA Internet of Animals: Defining user needs for tracking animal movements and lives in a changing world.</i> Workshop hosted at Yale University, New Haven, CT
2022	<i>An individual eye on a global problem: Unique insights from animal tracking on biodiversity responses to climatic change.</i> Organized Oral Session at Ecological Society of America Annual Meeting, Montreal, Quebec, Canada.
2019	<i>Introduction to Occupancy Modeling.</i> Workshop presented at XVII Congreso para el estudio y conservacion de las aves en México
2019	<i>SeminR: Introduction to R.</i> Workshop hosted at University of Colorado Denver, Denver, CO.

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## Selected Oral Presentations (presenting author listed first or denoted by \*)

2026	SW Yanco, J Cohen, RY Oliver. <i>Biologging can reveal the drivers of animal mortality and support global biodiversity indicators.</i> International Conservation Technology Conference, Lima, Peru, February 14-18, 2026
2024	SW Yanco, C Youngflesh, M Tingley, BC Weeks. <i>Climate change alters the adaptive landscape of avian morphology and drives evolution.</i> Contributed oral presentation to the 2024 American Ornithological Society Annual Meeting, Estes Park, CO, October 1-5, 2024.
2024	SW Yanco, C Youngflesh, M Tingley, BC Weeks. <i>Climate change alters the adaptive landscape of avian morphology.</i> Contributed oral presentation to the 2024 Ecological Society of America Annual Meeting, Long Beach, CA, August 4-9, 2024.

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- 2024 SW Yanco, Christian Rutz, Briana Abrahms, Nathan W. Cooper, Peter P. Marra, Thomas Mueller, Brian C. Weeks, Martin Wikelski, Ruth Y. Oliver. ***More than movement: Animal tracking can help uncover the drivers of biodiversity loss.*** Invited oral presentation to the 8th International Bio-logging Science Symposium, Tokyo, Japan
- 2023 SW Yanco, NW Cooper, PP Marra. ***Survival Debt: Kirtland's Warblers pay the costs of winter conditions during migration and breeding.*** Invited oral presentation to the American Ornithological Society – Society of Canadian Ornithologists Joint Meeting. London, Ontario, Canada
- 2023 SW Yanco, R Oliver, F Iannarilli, Data Providers, M Wikelski, W Jetz. ***Migrant cranes modulate niche tradeoffs in rhythm with seasons and life history.*** Contributed poster presentation to the 2023 Gordon Research Conference, Movement Ecology of Animals, Barga, Italy. May 29 – June 2, 2023.
- 2022 Oliver, RY, SW Yanco\*, D Ellis-Soto, B Jesmer, W Jetz. ***The COVID-19 anthropause reveals mechanisms of human impacts on animal movement.*** Contributed oral presentation to the 2022 Ecological Society of America Annual Meeting, Montreal, Quebec, Canada
- 2021 SW Yanco, AK Pierce, MB Wunder. ***Life history diversity in terrestrial animals is associated with metabolic response to seasonally fluctuating resources.*** Contributed poster presentation to Ecology Across Borders, Joint Annual Meeting of the British Ecological Society and the French Society for Ecology and Evolution. (virtual; originally accepted as oral presentation, converted due to COVID-19)
- 2020 SW Yanco, BL Linkhart, PP Marra, MB Wunder. ***Niche dynamics and ecological drivers of migration in an insectivorous owl.*** Invited oral presentation to symposium: “Making the most of Disparate Data to Map Opportunities for Migratory Bird Conservation” at North American Ornithological Conference VII (virtual)
- 2019 SW Yanco, BD Linkhart, M Micah, A Carver, M Ciaglo, P Marra, MB. Wunder. 2019. ***Towards a full annual biogeography of the flammulated owl.*** Contributed oral presentation to the Raptor Research Foundation Annual Conference
- 2019 SW Yanco, A Pierce, MB Wunder. ***Using genetic algorithms and agent-based models to explore landscapes and life histories which give rise to migration.*** Contributed poster presented at Movement Ecology of Animals Gordon Research Conference. Lucca (Barga), Italy
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- 2018 SW Yanco, AL McDevitt, LM Hartley, BD Linkhart, and MB Wunder. *Check yourself: using agent-based models to test the logic of hypotheses*. Contributed oral presentation to 2018 Ecological Society of America Annual Meeting, New Orleans, LA
- 2018 SW Yanco, BD Linkhart, and MB Wunder. *Home-range scale habitat selection patterns do not necessarily imply home-range scale decisions*. Contributed oral presentation to the 136<sup>th</sup> state meeting of the American Ornithological Society, Tucson, AZ
- 2018 SW Yanco, A McDevitt, L Hartley, and MB Wunder. *Non-inferential approaches to agent-based modeling*. Contributed oral presentation to the 24<sup>th</sup> annual Front Range Student Ecology Symposium, Fort Collins, CO
- 2017 SW Yanco, and BD Linkhart. *Scale-dependent habitat selection by a sensitive forest raptor following wildfire*. Contributed oral presentation to the 23<sup>rd</sup> annual Front Range Student Ecology Symposium
- 2014 SW Yanco and BD Linkhart. *Habitat selection by breeding Flammulated Owls in a post-fire environment*. Invited oral presentation to the 39<sup>th</sup> annual conference of the Western Field Ornithologists, San Diego, CA
- 2012 SW Yanco and BD Linkhart. *Home-range and habitat use by Flammulated Owls (*Otus flammeolus*) following a large-scale forest fire in central Colorado*. Contributed poster presented at the 130<sup>th</sup> stated meeting of the American Ornithologists Union, Vancouver, BC
- 2010 SW Yanco, BD Linkhart and RT Reynolds. *Nest habitat characteristics of Flammulated Owls (*Otus flammeolus*) in Colorado*. Contributed oral presentation to the 128<sup>th</sup> stated meeting of the American Ornithologists Union, San Diego, CA
- 2008 SW Yanco and BD Linkhart. 2008. *Nest site selection by Flammulated Owls (*Otus flammeolus*) in a post-fire environment in Colorado*. Contributed poster presented at the 126<sup>th</sup> Meeting of the American Ornithologists' Union, Portland, OR
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## Fellowships/Scholarships

- 2020-2021 Fritz Knopf Doctoral Fellowship in Avian Conservation
- 2019 Colorado Environmental Management Society Scholarship
- 2019 University of Colorado Denver, Integrative and Systems Biology Merit Scholarship
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## Awards and Honors

- 2025 Elective Member, American Ornithological Society
- 2021 Outstanding Graduate Defense, University of Colorado Denver,  
Department of Integrative Biology
- 2021 Outstanding Graduate Student, University of Colorado Denver,  
Department. of Integrative Biology
- 2020 A. Brazier Howell Award, American Ornithological Society  
(Given for "Best presentation on any topic in ornithology")
- 2006 Richard and Reba Beidleman Award, Colorado College  
(Given to a student who has "demonstrated through courses, fieldwork, or other activities, outstanding potential for becoming a professional ecologist and/or field biologist")
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## Courses Taught

- 2022 **Guest Lecturer** Western Connecticut State University  
BIO 422 Conservation Biology
- 2016-2021 **Teaching Assistant** University of Colorado Denver  
BIOL 6764 Biological Data Analysis  
BIOL 3763 Biostatistics  
BIOL 1500 Basic Biology: Cells to Organisms
- 2020 **Guest Lecturer** Metropolitan State University of Denver  
BIO 4280 Ornithology
- 2019 **Guest Lecturer** University of Colorado, Colorado Springs  
BIOL 3700 General Ecology
- 2018 **Guest Lecturer** University of Colorado Denver  
BIOL 3763 Biostatistics
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## Mentoring

- 2026-present PhD Committee member for Matthew Armstrong, Virginia Tech
- 2026 External examiner for Tamara Volkmer, Max Planck Institute of  
Animal Behavior and University of Konstanz
- 2025-present PhD committee member for Ale Vidal Meza, University of California  
Santa Barbara
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2024-present	Committee member for Laura Farnsworth, University of Colorado Denver
2024-present	Master's thesis mentor for Keeta Moore, University of Georgia
2021-present	External master's thesis committee member for Jason Tendler, University of Wisconsin-LaCrosse
2021-2024	Ad hoc mentor to 2 masters and 2 PhD students during postdoc at University of Michigan
2005-2021	Ad hoc mentor to >30 undergraduate students as part of long-term study on Flammulated Owl demography and behavior
2021-2023	Mentor and "Biodiversity Movement" group leader to 3 postgraduate associates, 5 Phd Students, and 1 postdoctoral associate at Center for Biodiversity and Global Change, Yale University
2007-2022	Mentor/supervisor to >20 undergraduates and recent graduates as part of environmental consulting activities.
2016-2021	Mentor to 9 undergraduate students during dissertation research

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## Outreach

2025	Participant in " <i>Conservation Classroom: Exploring Neighborhood Birds</i> " Smithsonian's National Zoo and Conservation Biology Institute Virtual Programming
2023	Classroom visit to Town Center Learning Campus (Pre-K), Madison, CT
2022	Presentation to Connecticut Audubon Society on avian migration
2021	Panelist for American Ornithological Society event: "Interacting with your invisible audience"
2021	Presentation to Monte Vista Crane Festival on Flammulated Owls in southern Colorado
2020	Keynote Presentation to Colorado Field Ornithologists Annual Meeting
2019-2020	Led hands on and virtual visits to Colorado Bird Observatory camps on fire ecology and avian capture methods.
2019	Presentation to the Rio Grande National Forest Leadership Team Meeting on Flammulated Owl ecology, management, and conservation.
2019	Contributing author to Data Carpentry Lesson: Data Analysis and Visualization in R for Ecologists. DOI: <a href="https://doi.org/10.5281/zenodo.3264888">10.5281/zenodo.3264888</a>

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## Selected Media Coverage

- 2026 New York Times: "[When humans went away, the wildlife strayed](#)"
- 2024 The Guardian: "[Can goats predict earthquakes?](#)"
- 2024 WEMU's Issues of the Environment: "[U-M research tracks individual animals to determine potential environmental threats](#)"
- 2024 New York Times: "[Study reveals bird-migration mystery](#)"
- 2024 MIT Technology Review: "[How tracking animal movement may save the planet](#)"
- 2023 Nature: "[Reproducibility trial: 246 biologists get different results from same data sets](#)"
- 2023 The Wren: "[Tiny Kamloops owls under threat from longer, more destructive fire seasons](#)"
- 2022 National Audubon Society: "[The Flammulated Owl Is a Small Raptor Facing Big Threats](#)"
- 2022 YaleNews: "[Data from space unveil a global view of animals on the move](#)"
- 2022 Zip06.com: "[Why do birds migrate?](#)"
- 2019 Wild Animals Podcast: "[B5: The Flammulated Owl Who Got Away, Over, and Over, and Over Again](#)"

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## Academic Service

Associate Editor *Ornithology*

Lead Guest Editor *Global Ecology and Biogeography* Special Issue: "Scaling Up Individual-Based Ecology: Macroecological Insights Gained from the Biologging Revolution"

Invited Reviewer *Nature Communications, Journal of Animal Ecology, Evolutionary Ecology, Individual-based Ecology, Movement Ecology, Basic and Applied Ecology, Scientific Reports, Ecology, eLife, Global Ecology and Biogeography, Frontiers in Ecology and the Environment, PLoSOne, Oecologia, Condor: Ornithological Applications, Journal of Experimental Marine Biology, Journal of Raptor Research, Avian Conservation & Ecology, Ornithology, Ecological Indicators, Journal of Avian Biology, Royal Society Open Science*

Guest Editor *eLife*

Co-chair Mortality metrics Interest Group, MoveBON Initiative

Co-chair Tag registry Interest Group, MoveBON Initiative

**Board Member** COVID-19 Initiative Steering Committee, International Bio-Logging Society

**Board Member** 2023 Gordon Research Seminar on Movement Ecology of Animals, Program Committee

**Founder and organizer** University of Colorado, Department of Integrative Biology Graduate Student Seminar Series.