

LIAM ULYSSES TAYLOR

Ph.D. Candidate, Department of Ecology and Evolutionary Biology

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Education

2018-Present Ph.D. Candidate in Ecology and Evolutionary Biology. Yale University.

Advisor: R. Prum. *Committee:* C. Dunn, M. Muñoz, S. Stearns

2017 A.B. with Honors in Biology, *summa cum laude*. Bowdoin College, Brunswick, ME.

Peer-Reviewed Publications

(* denotes co-first authorship)

Schaedler, L.*, **Taylor, L.***, and M. Anciães. *In Review at Integrative and Comparative Biology*. Constraint and function in the predefinitive plumages of manakins (Aves: Pipridae).

Taylor, L.U., E. Benavides, J.W. Simmons, and T.J. Near. *In press*. Genomic and phenotypic divergence informs translocation strategies for an endangered freshwater fish. *Molecular Ecology*.

Taylor, L.U., B.K. Woodworth, B.K. Sandercock, and N.T. Wheelwright. 2018. Demographic drivers of collapse in an island population of Tree Swallows. *The Condor* 120(4):828-841.

Wheelwright, N.T., **L.U. Taylor**, B.M. West, E.R. Voss, S.Y. Berzins, A.R. Villeneuve, H.R. LeBlanc, V.B. Leos, S.J. Mayne, S.A. McCarthy, S.J. Nagar, and J.S. Watling. 2017. Pupation site selection and enemy avoidance in the Introduced Pine Sawfly (*Diprion similis*). *Northeastern Naturalist* 24(Sp. 7):B19-B31.

Other Publications

Taylor, L., N. Oakley, and D. McDonald. 2020. [Golden-winged Manakin](#) (*Masius chrysopterus*), version 1.0. In *Birds of the World* (T. S. Schulenberg, Editor). Cornell Lab of Ornithology, Ithaca, NY, USA.

Taylor, L.U. and L.E. Michael. 2018. Methods for Young Fieldworkers. *The Bulletin of the Ecological Society of America* 99(2):169-172.

Presentations and Posters

- 2021 **Taylor, L.U.** Selection as an act and a process. Presentation for [Animalhouse: Animals and Their Environs](#). Philosophy Department, The New School for Social Research.
- 2020 **Taylor, L.U.** Life history lessons for delayed plumage maturation. [Presentation](#) for the North American Ornithological Conference. Virtual.
- 2019 **Taylor, L.U.** and R.A. Mauck. Coordination, conflict, and neglect in biparental storm-petrel incubation. [Poster](#) for the American Ornithological Society. Anchorage.
- 2019 **Taylor, L.U.** and P. Kockelman. The Semiotics of Evolution. [Poster](#) for the Ecology and Evolutionary Biology Departmental Symposium. Yale University.
- 2017 **Taylor, L.U.** Demography of a collapsing aerial insectivore population. Presentation for the Department of Biology Honors Seminar. Bowdoin College.
- 2016 **Taylor, L.U.** A framework for mammalian and insect spatial systems. Presentation for the Department of Computer Science Summer Research Seminar. Bowdoin College.
- 2016 **Taylor, L.U.** and E. Chown. A framework for understanding spatial reasoning. [Poster](#) for the Presidential Research Symposium. Bowdoin College.

- 2015 **Taylor, L.U.** and R.A. Mauck. Biparental incubation coordination of the Leach's Storm-petrel (*Oceanodroma leucorhoa*). [Poster](#) for the Presidential Research Symposium. Bowdoin College.

Associated Presentations and Posters

- 2020 Schaedler, L.M. (presenting), **L.U. Taylor**, and M. Anciães. Delayed plumage maturation in manakins: a review on its patterns and functions. Presentation for the Society for Integrative and Comparative Biology. Virtual.
- 2020 Near, T.J. (presenting), **L.U. Taylor**, and J.W. Simmons. Genomics and museomics inform translocation strategies in the endangered Bluemask Darter, *Etheostoma akatulo*. Presentation for the Southeastern Fishes Council. Virtual.
- 2019 Benavides, E. (presenting), **Taylor, L.U.** (poster), J. Simmons, D. Macguigan, C. Parker, D. Kim, and T.J. Near. Genome-wide population structure at microgeographic scales in the endangered Bluemask Darter (*Etheostoma akatulo*) from the Caney Fork River System. [Poster](#) for the Society for the Study of Evolution. Providence.
- 2017 Wheelwright, N.T. (presenting), **L.U. Taylor**, B.K. Woodworth, and B.K. Sandercock. Demographic collapse of an island Tree Swallow (*Tachycineta bicolor*) population. Presentation for the American Ornithological Society. East Lansing.
- 2016 McCarthy, S.A., S.Y. Berzins, H.R. LeBlanc, V.B. Leos, S.J. Mayne, S.J. Nagar, **L.U. Taylor**, A.R. Villeneuve, E.R. Voss, J.S. Watling, B.M. West, and N.T. Wheelwright. Pupation site selection and enemy avoidance in the Introduced Pine Sawfly. [Poster](#) for Advanced Winter Field Ecology. Bowdoin College.

Teaching

- 2020 (Jun 23) *Guest instructor*. "Getting comfortable with R programming." Ecology and Evolutionary Biology Department Undergraduate Seminar. Yale University.
- 2020 (Mar 6) *Guest lecturer*. "Religion, politics, and sexual selection." Contemporary Issues in Biology Course. Hopkins High School, New Haven, CT.
- 2019 (Fa) *Teaching fellow*. Evolution and Medicine Course (Writing Intensive). Department of Ecology and Evolutionary Biology. Yale University. With Dr. S. Stearns.
- 2019 (Sp) *Teaching fellow*. Ornithology Course (Lecture and Lab). Department of Ecology and Evolutionary Biology. Yale University. With Dr. R. Prum.
- 2018 (Fa) *Teaching fellow*. Introduction to Evolution and Ecology. Department of Ecology and Evolutionary Biology. Yale University. With Dr. T. Near.
- 2017 (Sp) *Head tutor*. Department of Computer Science. Bowdoin College.
- 2014-2017 *Teaching assistant*. Data Structures, and Introduction to Computer Science Courses. Department of Computer Science. Bowdoin College.

Research Grants and Awards

- 2018-Present Graduate Research Fellowship (NSF GRFP). National Science Foundation, USA.
- 2021 Student Research Award, American Society of Naturalists
- 2019 Franke Interdisciplinary Research Award. Franke Program in Science and the Humanities. Yale University.
- 2019 Student Membership Award. American Ornithological Society.
- 2016 Bowdoin Research Award. Bowdoin College.
- 2016 Surdna Summer Research Fellowship. Bowdoin College.
- 2016 Roberts Fund and Grua/O'Connell Fund Mini-grants. Bowdoin College.
- 2014-2015 Summer Research Fellowship. Bowdoin Scientific Station, Kent Island, New Brunswick.

Honors

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| 2019 | Student Membership Award. American Ornithological Society. |
| 2018 | Sterling Prize. Department of Ecology and Evolutionary Biology. Yale University. (Awarded to the department's top application candidate). |
| 2017 | Donald and Harriet S. Macomber Prize in Biology. Department of Biology. Bowdoin College. (Awarded to the outstanding senior in Biology). |
| 2017 | Phi Beta Kappa Society. |
| 2016 | Goldwater Scholar. Barry Goldwater Excellence in Education Foundation. [Please note: Goldwater opposed the Civil Rights Act of 1964. Dr. Martin Luther King wrote that "Mr. Goldwater articulate[d] a philosophy which gives aid and comfort to the racists."] |
| 2016 | James Malcolm Moulton Prize in Biology. Department of Biology. Bowdoin College. (Awarded to the outstanding junior in Biology). |
| 2016 | Sarah and James Bowdoin Day Speaker. " Attention and the Life of the Brain. " |
| 2014,2016 | Bowdoin Book Award. Bowdoin College. (Awarded for GPA of 4.00). |
| 2014-2016 | Sarah and James Bowdoin Scholar. Bowdoin College. (Awarded for top 20% GPA). |

Community

Current Societies: American Ornithological Society; American Society of Naturalists; Association of Field Ornithologists; The Waterbird Society

Peer Review: Yale Undergraduate Research Journal

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| 2020-Present | <i>Co-founder.</i> Meaning in Evolution and Ecology Collective. Yale University. |
| 2020-Present | <i>Participating member.</i> Student Affairs Committee. American Ornithological Society. |
| 2020-Present | <i>Volunteer.</i> Franke-MIT Full STEAM Ahead Program. Franke Program in Science and the Humanities. Yale University. |
| 2019-Present | <i>Organizer.</i> Graduate Student Speakeasy Series. Department of Ecology and Evolutionary Biology, Yale University. |
| 2018 | <i>Volunteer.</i> Peabody Museum of Natural History. Yale University. |
| 2018 (Fa) | <i>Banding volunteer.</i> Connecticut Audubon Birdcraft Sanctuary. |
| 2016-2017 | <i>Co-head.</i> Huntington Bird Club. Bowdoin College. |
| 2014-2015 | <i>Member.</i> Northern Bites RoboCup Team. Bowdoin College. |

Technical Skills

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| <i>Fieldwork</i> | Netting, banding, bleeding, telemetry, and field ID for birds. Decent attitude. |
| <i>Field studies</i> | Golden-winged Manakins, Leach's Storm-Petrels, Semipalmated Plovers. |
| <i>Benchwork</i> | Tissue DNA extractions (fish, birds), PCR, ddRAD-seq library preparation. |
| <i>Programming</i> | Proficient: R and C++. Experienced: Python. Familiar: C, Java, Javascript, JAGS. |