**PAUL JOSEPH DOUGHERTY**

CURRICULUM VITAE

University of Wyoming, Department of Zoology and Physiology

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**EDUCATION**

**University of Wyoming,** Laramie, WY, USA **Ph.D., Aug 2017 - Present**

Program in Ecology, Department of Zoology & Physiology Advisor: Dr. Matthew Carling

*Minor:* Statistics

**Colby College,** Waterville, ME, USA **Bachelor of Arts, 2012 – 2016**

GPA: 3.74 (Dean’s List, Cum Laude) Honors Thesis Advisor: Dr. Herbert Wilson

*Major:* Biology (Ecology and Evolution Concentration)

Major: Classics

**PUBLICATIONS**

**(peer reviewed)**

Minor, NR\*, **PJ Dougherty\***, SA Taylor, and MD Carling. Estimating hybridization in the wild using community science data: a path forward. *Evolution.* https://doi.org/10.1111/evo.14392.

*\*these authors contributed equally*

**Dougherty, PJ**, and WH Wilson Jr. 2018. Evidence for a relationship between the winter movements of the Common Redpoll (*Acanthis flammea*) and the American Goldfinch (*Spinus tristis*). *The Open Ornithology Journal* 11:1-26.

**(non-peer reviewed)**

*Undergraduate Honors Thesis:*

**Dougherty, PJ.** 2016. Spatial and temporal patterns in irruptive Fringillid movements. (2016). *Colby College* Honors Theses. https://digitalcommons.colby.edu/honorstheses/822.

…**PJ Dougherty**…RA Gastaldo (10 authors). 2014. Conserving Maine’s fossil heritage: the Trout Valley formation along Wadleigh Mountain Road, Scientific Forest Management Area. Report to the Baxter State Park Authority.

**RESEARCH PRESENTATIONS**

**Dougherty, PJ**, and MD Carling. Oral presentation. “The role of molt phenology divergence in maintaining reproductive isolation between taxa that hybridize in the Great Plains.” American Ornithological Society. Virtual presentation. 2021.

**Dougherty, PJ**, and MD Carling. Oral presentation. “The influence of the North American monsoon on breeding abundance of western molt migrants.” North American Ornithological Conference. Virtual presentation. 2020.

**Dougherty, PJ**. Oral Presentation. “Molt, migration, and monsoons: revisiting the avian hybrid zones of the Great Plains.” University of Wyoming dissertation proposal defense talk. Virtual presentation. 2020.

**Dougherty, PJ**, and MD Carling. Oral Presentation. “The role of life history divergence in maintaining effective reproductive isolation between hybridizing species.” University of Wyoming Program in Ecology (PiE) Symposium. Laramie, WY. 2020.

**Dougherty, PJ**, Carling, MD, and SL Fossberg\*. Oral Presentation. “Using museum specimens to investigate fitness variation across avian hybrid zones.” American Ornithological Society. Anchorage, AK. 2019.

*\*mentored undergraduate student*

**Dougherty, PJ**, and RP Olson. Poster Presentation. “Using measurements of museum specimens to investigate variation in fitness across an avian hybrid zone.” University of Wyoming Program in Ecology (PiE) Symposium. Laramie, WY. 2019.

**Dougherty, PJ**. Poster Presentation. “δ13C and δ15N values characterize molting behavior of Lazuli Buntings.” University of Wyoming Stable Isotope Ecology Poster Session. Laramie, WY. 2018.

**Dougherty, PJ**, and WH Wilson Jr. Oral Presentation. “Evidence for a relationship between the movements of boreal-breeding and temperate-breeding Fringillids.” American Ornithological Society. Tucson, AZ. 2018.

**Dougherty, PJ.** Oral Presentation. “Do differences in molt schedule or migratory orientation maintain divergence between hybridizing species?” University of Wyoming Department of Zoology & Physiology, FLaSH talks. Laramie, WY. 2017

**Dougherty, PJ.** Oral Presentation. “Spatial and temporal patterns in irruptive fringillid movements.” Colby College Liberal Arts Symposium, Biology Honors Theses. Waterville, ME. 2016.

**RESEARCH GRANTS and FELLOWSHIPS**

2021 Margaret and Sam Kelly Ornithology Research Fund, University of Wyoming: $2,000

L. Floyd Clark Graduate Scholar Award, University of Wyoming: $2,000

Dr. George Menkens Memorial Scholarship, University of Wyoming: $10,000

2019 Gardner & Fiske Physiology Graduate Research Award, University of Wyoming: $6,000

RC Lewontin Early Award, Society for the Study of Evolution: $2,000

Werner and Hildegard Hesse Award, American Ornithological Society: $2,000

2018 Graduate Student Research Award, Society of Systematic Biologists: $1,000

Robert Berry Research Grant, University of Wyoming: $4,000

2017 Small Grant, Laramie Audubon Society: $500

Berry Graduate Student Fellowship in Zoology, University of Wyoming: $28,000

**OUTREACH GRANTS**

2020 Novel Outreach and Education Grant, University of Wyoming Biodiversity Institute. “The art of hybridization.” Wommack, EA, **PJ Dougherty**, R Ratigan, and MD Carling: $15,000

**OTHER AWARDS and HONORS**

2021 Wyoming NASA Space Grant Graduate Research Fellowship, runner-up

2019 Program in Ecology travel grant, University of Wyoming: $500

2018 1st President’s Lifer List Winner, American Ornithological Society

Program in Ecology travel grant, University of Wyoming: $500

2017 Program in Ecology Augmentation Award, University of Wyoming: $5,000

2016 Honors in Biology, Colby College

Distinction in Biology and Classics, Colby College

John B. Foster Prize in Classics, Colby College

NESCAC Spring All-Academic Team (also awarded in 2014 and 2015)

ECAC and NIRC Steward’s All–Academic Team (also awarded in 2014 and 2015)

2015 Griffin Metto ’15 Prize in Classics, Colby College

**OUTREACH PRESENTATIONS**

**Dougherty, PJ**. Oral Presentation. “Why I spend all day thinking about birds.” University of Wyoming chapter of the Wildlife Society invited graduate student talk. Virtual presentation. 2020.

**Dougherty, PJ**. Oral Presentation. “Reproductive isolation between hybridizing bird species; why are there still two buntings in the Great Plains?” Laramie Audubon Society. Laramie, WY. 2018.

**TEACHING EXPERIENCE**

*Graduate Teaching Assistant*, **University of Wyoming Spring 2019, 2020**

Ornithology (ZOO 4350/5350)

Co-taught two lab sections of about 15 students

*Graduate Teaching Assistant*, **University of Wyoming Spring 2018**

Animal Biology (LIFE 2022)

Taught two lab sections of about 20 students

Provided instruction and mentorship for an Undergraduate Teaching Assistant

*Graduate Teaching Assistant*, **University of Wyoming Fall 2017**

General Biology (LIFE 1010)

Taught two lab sections of about 20 students

*Biodiversity Lab General Assistant*, **Colby College** **Fall 2014 – Spring 2016**

Helped to prepare for laboratory exercises pertaining to biodiversity

*Latin Tutor,* **Colby College Fall 2014 – Spring 2016**

Tutored undergraduate and high school students in elementary Latin and advanced Latin poetry

**COLLECTIONS-BASED EXPERIENCE**

Curatorial Assistant, **University of Wyoming Museum of Vertebrates Summer 2018 – Present**

Helped to accession and catalog specimens in the ARCTOS database

Prepared birds as round skins, spread wings, and skeletons (total preps: 129)

Helped to prepare for and co-led museum outreach events

Assisted with collection efforts in the field

**OTHER RESEARCH EXPERIENCE**

**Birds of Maine Book Project,** Richmond, ME  **Summer 2017**

*Editing Assistant*

Composed and edited species accounts that will appear in a published comprehensive guide to the birds of Maine.

Arranged existing accounts to conform to a provided style guide, looked up missing references and occurrence records.

Wrote original accounts on the historic and current abundance of individual bird species in Maine by synthesizing existing literature and occurrence data reported by citizen scientists.

**IUP Research Institute,** Indiana PA; **Cornell Lab of Ornithology,** Ithaca NY **Spring, Summer 2017**

*Avian Field Technician*

Surveyed breeding bird populations and plant regeneration in public and privately owned lands managed to create early successional forest habitat.

Worked closely with private landowners and tribal employees to arrange survey visits and communicate results.

**National Audubon Society, Project Puffin,** Bremen, ME **Summer 2014**

*Seabird Research Assistant*

Collected data regarding nesting success, feeding patterns, and population trends of breeding seabirds in the Gulf of Maine.

Practiced skills such as bird banding, taking body measurements, and compiling data.

**OTHER PROFESSIONAL EXPERIENCE**

**Tenacre Summer Programs,** Wellesley, MA **Summer 2016**

*Nature and Science Activity Head*

Designed and carried out lessons spanning a variety of topics in science for children ages 3-12.

**Massachusetts Audubon Society,** Broadmoor Wildlife Sanctuary, Natick, MA **Summer 2012 - 2015**

*Environmental Educator*

Designed and carried out activities relating to natural history. Topics included species interactions, evolution, avian ecology, and adaptation.

Oversaw lessons and the wellbeing of children ages 4–15.

**OUTREACH and SERVICE**

**University of Wyoming Program in Ecology,** Laramie, WY

*Student Co-president* **August 2021 – Present**

*Symposium Committee Co-chair* **August 2020 – July 2021**

*New graduate student mentor* **September 2019 – Present**

*Invited Speaker Committee Co-chair* **March 2018 – July 2020**

*Outreach Committee Co-chair* **August 2018 – July 2019**

**Laramie Audubon Society,** Laramie Wyoming

*Newsletter Chair* **January 2019 – Present** *Board Member, Newsletter Co-chair* **November 2017 – January 2019**

**Eastern Massachusetts National Wildlife Refuge Complex,** Sudbury, MA **July – October 2016**

*Birding Guide*

Co-led a series of summer and fall birding walks as a USFWS volunteer.

**Manuscript Reviews:** Western Birds (1)

**UNDERGRADUATE MENTEES and TRAINEES**

Theresa Higgins Summer 2021

Rebecca Franke Summer 2021

Qingqing Yang, Colby College Summer 2020

Nick Pineschi, University of Wyoming Summer 2020

Domonique Jones, University of Wyoming Fall 2019 – Spring 2020

Ashley Townsend, University of Wyoming Summer 2019

Ashlynn Ballard, University of Wyoming Summer 2019

Sydnie Fossberg, University of Wyoming February 2019 - Present

**MEMBERSHIP**

American Ornithological Society, Society for the Study of Evolution, Society of Systematic Biologists, American Genetics Association