PAUL JOSEPH DOUGHERTY

CURRICULUM VITAE

University of Wyoming, Department of Zoology and Physiology 1000 E. University Ave, Laramie, WY 82071 email: pdoughe1@uwyo.edu phone: (508)-479-1910

EDUCATION

University of Wyoming, Laramie, WY, USA

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

Minor: Statistics

Colby College, Waterville, ME, USA

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.

Ph.D., Aug 2017 - Present

Bachelor of Arts, 2012 - 2016

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. " δ^{13} C and δ^{15} N 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

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 Ornithology (ZOO 4350/5350)

Spring 2019, 2020

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.

Updated 1/4/22

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
Symposium Committee Co-chair
New graduate student mentor
Invited Speaker Committee Co-chair
Outreach Committee Co-chair
August 2021 – Present
August 2020 – July 2021
September 2019 – Present
March 2018 – July 2020
August 2018 – July 2019

Laramie Audubon Society, Laramie Wyoming

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

Updated 1/4/22

MEMBERSHIP

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