

Brendan Casey

ECOLOGIST

Edmonton, Alberta

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Education

PhD Ecology

Edmonton, Alberta

UNIVERSITY OF ALBERTA

2017 - 2023

- Thesis: Evaluating remote sensing covariates for understanding habitat selection by boreal forest birds

MSc Biodiversity and Conservation

Dublin, Ireland

TRINITY COLLEGE DUBLIN

2013 - 2014

- Thesis: Enhancing Connectivity Between Ireland's Native Woodlands.

BFA Art and Design

Alfred, New York

ALFRED UNIVERSITY

2002 - 2007

Employment

Lab Coordinator

Edmonton, Alberta

UNIVERSITY OF ALBERTA

2024 - Present

- Lab coordinator for graduate level landscape ecology course.
- Taught GIS applications in ecology.

Postdoctoral Fellow

Edmonton, Alberta

UNIVERSITY OF ALBERTA

2023 - Present

- Study bird habitat using remote sensing.
- Manage GIS and remote sensing resources for the Bioacoustic Unit.

Research Assistant

Edmonton, Alberta

UNIVERSITY OF ALBERTA

2022 - Present

- Generate topographically downscaled climate layers using remote sensing, terrain modeling, and environmental data loggers.
- Develop high resolution spatial data layers reflecting microrefugia for Alberta and British Columbia.
- Create a reproducible workflow that can used as more environmental data is acquired.

Graduate Research Assistant

Edmonton, Alberta

UNIVERSITY OF ALBERTA

2017 - 2023

- Conducted bioacoustic and vegetation surveys in Alberta's boreal forests.
- Programmed, deployed, and maintained autonomous recording units.
- Managed field logistics and supervised wildlife technicians.

Graduate Teaching Assistant

Edmonton, Alberta

UNIVERSITY OF ALBERTA

2017 - 2021

- Helped facilitate undergraduate ecology and population ecology courses.
- Taught lessons on experimental design, statistical analyses, and bioacoustics.

Sustainability Scholar

Edmonton, Alberta

UNIVERSITY OF ALBERTA

2021 - 2021

- Worked on the Edmonton River Valley Connectivity Analysis
- Evaluated wildlife connectivity through Edmonton's city core using remote camera data, wildlife movement models, and GIS.
- Created communication materials including cross sectional maps and Shiny apps.

Missoula, Montana

2016 - 2017

- ## Chapter Services Program Coordinator

Missoula, Montana

2015 - 2016

- Sitka, Alaska*

2009 - 2013

- ## Senior Field Instructor

Belgrade, Montana

2007 - 2009

- ## Additional Experience

Dublin, Ireland

2013 - 2014

- Sitka, Alaska

2010 - 2012

- ## Certifications

Edmonton, Alberta

2018

Edmonton, Alberta

2017

Sitka, Alaska

2013

Awards

Funded Fellow	<i>Sherbrooke, Québec</i>
COMPUTATIONAL BIODIVERSITY SCIENCE AND SERVICES (BIOS2)	2021
ACA Grants in Biodiversity	<i>Edmonton, Alberta</i>
ALBERTA CONSERVATION ASSOCIATION	2019
U of A Northern Research Awards (UANRA)	<i>Edmonton, Alberta</i>
UNIVERSITY OF ALBERTA	2019
Doctoral Recruitment Scholarship	<i>Edmonton, Alberta</i>
UNIVERSITY OF ALBERTA	2019
Graduate Student Teaching Award	<i>Edmonton, Alberta</i>
UNIVERSITY OF ALBERTA	2019
ISSS Teaching Award	<i>Edmonton, Alberta</i>
UNIVERSITY OF ALBERTA	2018

Skills

Ecology	Ecological modelling, Remote sensing, Spatial analyses, Wildlife monitoring
GIS	Google Earth Engine, ArcGIS, R
Programming	R, Python, JavaScript, Shell