# **Emma Lather**

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**Career Objective:** To complete a PhD in Ecology and pursue a career in original research.

Education:			
University of Wisconsin – Madison	M.S.	Forestry	Expected May 2023
William & Mary	B.S.	Data Science, Environmental Science a	2019 nd Policy
	extent – ex	amined the response of pra	nange differs depending on nirie wetland bird populations to ted NLCD land cover data at large
Research Experience:			
University of Wisconsin – Madis	on		
2021 - present	SILVIS Lab Mentors: Anna Pidgeon and Volker Radeloff Graduate Research Assistant Utilize NEXRAD data to study the importance of National Forests as stopover sites for migratory birds		
William & Mary			
January 2017 - May 2019	Applied Conservation and Ecological Research Laboratory Mentor: Matthias Leu Undergraduate Researcher, Honors Fellow Create GIS model of land cover change in Virginia from 2001 to 2011 Conduct honors thesis research		
August 2015 - December 2015	Parks Research Laboratory Mentor: Dorothy Ibes Undergraduate Researcher Design and conduct pilot study on the impact of indoor greenspaces on mood		
Research Interests: Landscape Ecology – the imp Wetland Ecology – habitat fa loss/degradation due to ΔLU GIS and Statistical Analysis –	oact of ΔLU actors that ILC	increase resilience of reside	•

datasets for new uses

## Fellowships, Honors, and Awards

Graduated Magna Cum Laude, W&M	2019
Departmental Honors, W&M Biology	2019
Charles Center Honors Fellowship, W&M	2018

#### **Techniques:**

ESRI's ArcGIS suite Python Microsoft Excel QGIS Linear Regression R Statistical Programming Language Java ENVI Statistical Analysis

#### **Professional Affiliations:**

Earth Science Women's Network

#### **Oral and Poster Presentations:**

Bird response to prairie wetland loss and to adjacent land-cover change differs depending on conversion type and spatial extent – oral, public Honors Thesis Defense, W&M. Williamsburg, VA, 2019.

Assessing campus stream quality using a macroinvertebrate biotic index – poster, Earth Day, W&M. Williamsburg, VA, 2019.

Response of wetland bird populations to neighboring land use land cover change – poster, Summer Research Showcase, W&M. Williamsburg, VA, 2018.

*Edible and Medicinal Plants: A Long Tradition on the Camino* – poster, Annual Symposium for Pilgrimage Studies, W&M. Williamsburg, VA, 2017.

*Effect of Indoor Greenspaces on Mood* – oral, Campus Parks Class Research Symposium, W&M. Williamsburg, VA, 2015.

## **Publications:**

Original Journal Articles:

E Lather. Bird response to prairie wetland loss and to adjacent land-cover change differs depending on conversion type and spatial extent. In prep.