



**Calder Summer Undergraduate Research (CSUR) Program
Louis Calder Center - Biological Field Station**



FORDHAM UNIVERSITY

Summer 2023 - Application Form

Personal Data

| | | |
|--|-----------------|-----------|
| Name: | | |
| Street Address: | | |
| Town: | State: | Zip Code: |
| Phone: | Email: | |
| Date of Birth: | | |
| Highest college level <u>completed</u> (as of May of 2023): Freshman Sophomore Junior Senior | | |
| When do you expect to graduate? | | |
| Gender: | Race/Ethnicity: | |
| Do you plan to bring a vehicle to the station? | | |
| Do you plan to live at the station over the summer? | | |

Training

| | | |
|---|---------------|--------------|
| Universities or Colleges Attended | Current: | |
| | | |
| Universities or Colleges Attended | Other: | |
| | | |
| Biology, chemistry, or other relevant courses taken. <i>Unofficial transcripts may be attached</i> | Course | Grade |
| | | |
| | | |
| | | |
| | | |
| Major: | | |
| Total GPA: | out of | |
| Major GPA: | out of | |
| How did you learn about our program? | | |

Other Experience.

List other relevant experience, such as laboratory research, employment, or outdoor experience and interests.

Personal Interest. (Extra space is available on page 5, or use an extra sheet if necessary)

Describe your reasons for applying to the Calder Undergraduate Research Program. Specifically,
- What do you hope to get out of the program? How do you expect that this research experience will affect your career? Why are you interested in the field of ecology?

Research Interests. Below are listed our offering of potential research areas. Indicate in the empty boxes your top three research interests, by number, **from 1 to 3 (1 = strongest interest)**.

| | |
|--|--|
| | <p><u>Avian Ecology, Behavioral Ecology, and Conservation Biology Lab.</u> PI - <i>J. Alan Clark, PhD.</i></p> <p>Territoriality and spatial ecology of Gray Catbirds Vocal behavior of Gray Catbirds and techniques in acoustic analysis Use of genetic techniques to determine the sex of birds</p> |
| | <p><u>Vector Ecology Lab.</u> PI -<i>Thomas Daniels, PhD & Richard Falco, PhD</i></p> <p>Population ecology of ticks Novel ways of controlling ticks Activity and spread of the Asian longhorned tick Ecology of invasive mosquito species</p> |
| | <p><u>Behavioral, Physiological and Biochemical Adaptations of Mammals Lab.</u> PI - <i>Craig Frank, PhD</i></p> <p>Evolutionary physiology of hibernation Evolution of food storage (rather than hibernation) Effects of climate change on hibernation White nose syndrome in bats</p> |
| | <p><u>Plant and Microbial Community and Ecosystem Ecology Lab.</u> PI - <i>J.D. Lewis, PhD</i></p> <p>Human effects on the environment, including urbanization, invasive organisms, climate change and habitat fragmentation.</p> |
| | <p><u>Animal Behavior, Population Genetics, Urban Ecology Lab.</u> PI - <i>Jason Munshi-South, PhD</i></p> <p>Urbanization and how it is affecting population genetics of wildlife species Urban populations as model systems of rapid microevolution Urban conservation and restoration efforts</p> |
| | <p><u>Ecology of Algae in Lakes and Rivers Lab.</u> PI - <i>John Wehr, PhD</i></p> <p>Diversity of algae in the Colorado River Harmful algal blooms in New York lakes Are mosses good homes for diatoms in rivers?</p> |

Personal Interest – Extra Space.

A large, empty rectangular box with a thin black border, occupying most of the page. It is intended for the user to write their personal interests.

References

Provide the names, phone numbers, *and email addresses* of two references who can comment on your ability as a student or your potential as a researcher.

1.

2.

Signature (Type your full name)

Date

**Send your completed
application
electronically by
March 10, 2023 to:**

REUatCalder@fordham.edu

When submitting application rename Word document by adding your first initial and last name before the original file name. For example: Jane Smith

JSmithCSUR2023application.doc

It is strongly preferred that the application be submitted electronically.

If you are unable to do so, send application to:

CSUR Program 2023: Louis Calder Center - Biological Field Station
Fordham University, 31 Whippoorwill Road, PO Box 887
Armonk, NY 10504, USA