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

## F O R D H A M  U N I V E R S I T Y

## Summer 2022 - Application Form

### Personal Data

| | | |
|---|---|---|
| Name: | | |
| Street Address: | | |
| Town: | State: | Zip Code: |
| Phone: | Email: | |
| Date of Birth: | | |
| Highest college level completed (as of May of 2022): ☐ Freshman ☐ Sophomore ☐ Junior ☐ Senior | | |
| When do you expect to graduate? | | |
| Gender: I identify as... | Race/Ethnicity: Which of the following best describes you? | |
| Do you plan to bring a vehicle to the station? | | |
| Do you plan to live at the station over the summer? *Upon acceptance you will receive a separate housing survey.* | | |

### Training

| | | |
|---|---|---|
| Universities or Colleges Attended | Current: | |
| | Other: | |
| Biology, chemistry, or other relevant courses taken. ***Unofficial transcripts may be attached*** | **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 6, 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***).

| | |
|---|---|
| | J. Alan Clark, PhD (Avian Ecology, Behavioral Ecology, and Conservation Biology).<br>Territoriality and song behavior in Gray Catbirds<br>Use of genetic techniques to determine the sex of birds |
| | Thomas Daniels, PhD & Richard Falco, PhD (Vector Ecology).<br>Population ecology of ticks<br>Novel ways of controlling ticks<br>Activity and spread of the Asian longhorned tick<br>Ecology of invasive mosquito species |
| | Craig Frank, PhD (Behavioral, Physiological and Biochemical Adaptations of Mammals)<br>Evolutionary physiology of hibernation<br>Evolution of food storage (rather than hibernation)<br>Effects of climate change on hibernation<br>White nose syndrome in bats |
| | Steve Franks, PhD (Plant Ecology and Evolution)<br>Population dynamics and rapid evolution in annual plants<br>Evolutionary responses to climate change<br>Evolution in invasive species, germination behavior, and plant-microbial interactions<br>Research that contributes to the understanding of natural selection and rapid contemporary evolution in natural and introduced plant populations. |
| | J.D. Lewis, PhD (Plant and Microbial Community and Ecosystem Ecology).<br>Human effects on the environment, including urbanization, invasive organisms, climate change and habitat fragmentation. |
| | Jason Munshi-South, PhD (Animal Behavior, Population Genetics, Urban Ecology).<br>Urbanization and how it is affecting population genetics of wildlife species<br>Urban populations as model systems of rapid microevolution<br>Urban conservation and restoration efforts |
| | John Wehr, PhD Ecology of algae in lakes and rivers<br>Diversity of algae in the Colorado River<br>Harmful algal blooms in New York lakes<br>Are mosses good homes for diatoms in rivers? |

**Personal Interest –** Extra Space.

## References

| Provide the names, phone numbers, ***and email addresses*** of three references who can comment on your ability as a student or your potential as a researcher. |
|---|
| 1. |
| 2. |
| 3. |

**Signature (Type your full name)** **Date**

| | |
|---|---|
| | |

**Send your completed application electronically by March 18, 2022 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 **JSmith**CSUR2022application.doc

**It is strongly preferred that the application be submitted electronically.**

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

**CSUR Program 2022: Louis Calder Center - Biological Field Station**
Fordham University, 31 Whippoorwill Road, PO Box 887
Armonk, NY 10504, USA