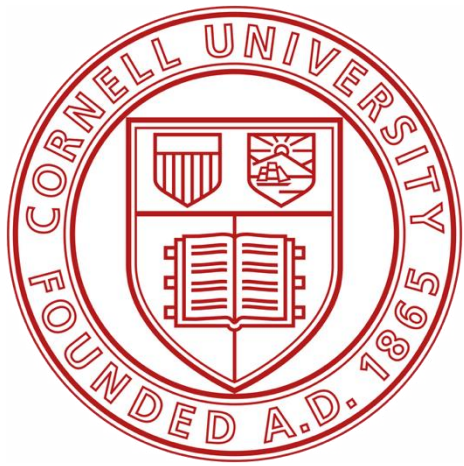
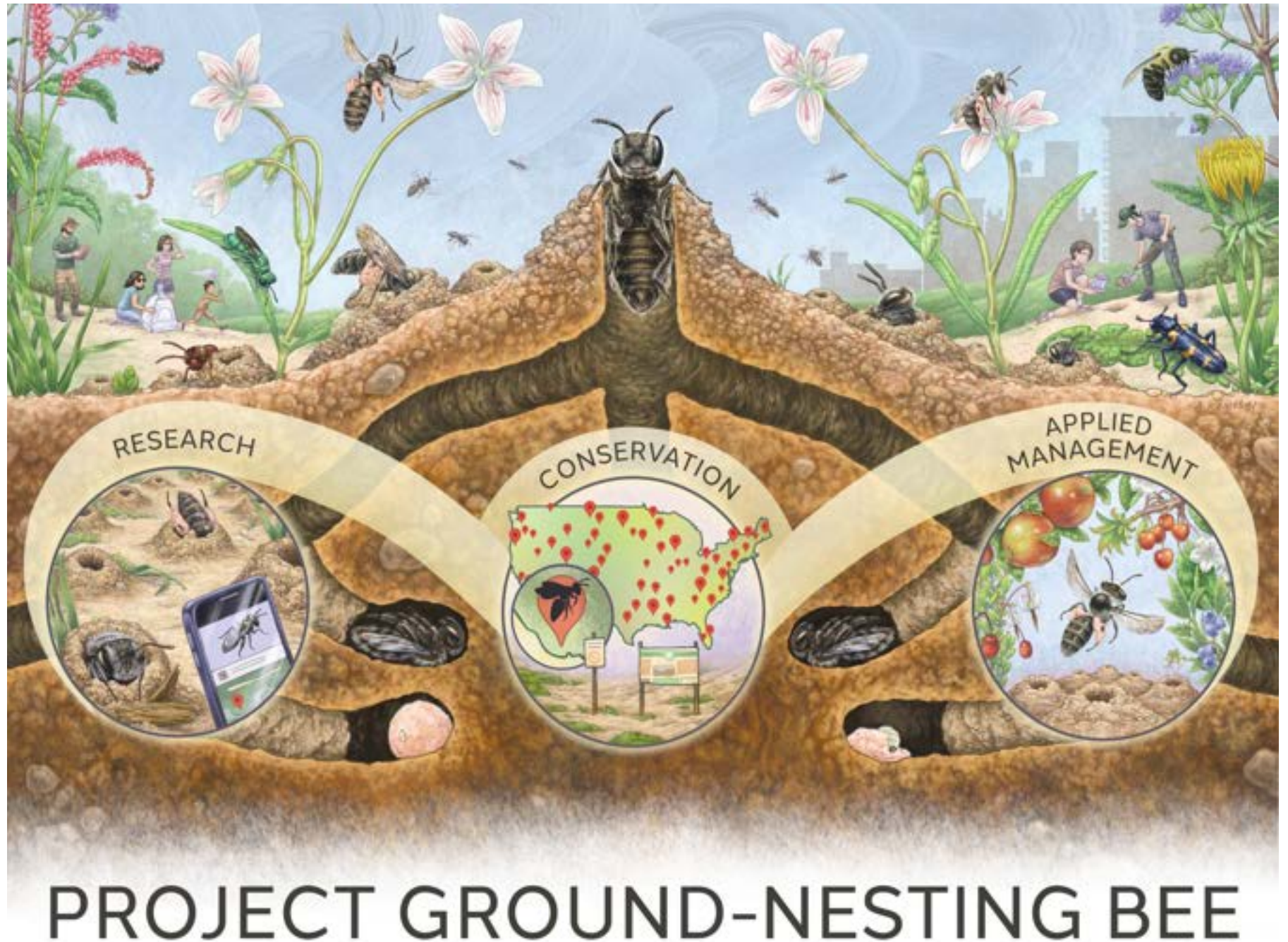




**Cornell
Atkinson**
Center for
Sustainability



Dr. Jordan
Kueneman



PRINCIPAL RESEARCH OBJECTIVES

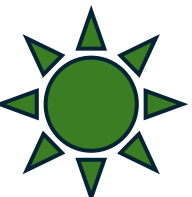


1) Why do bees nest where they do?

Nest site selection depends on biotic and abiotic factors, but these are poorly understood for most species

2) What allows them to succeed long-term?

Studying ground-nesting aggregations through time is essential for understanding population stability



Community science is the only way to address these questions

UPLOADING OBSERVATIONS

How to add Observation on a Computer using iNaturalist:

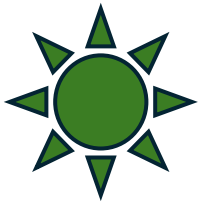
1. Click on this [Link](#) or Google Ground Nesting Bees iNaturalist
 1. Alternately, click on the link at the bottom of the home page [gnbee.org](https://www.gnbee.org)
2. Click on the red “Add Observations” banner, which will direct you to create an account, or log in.
3. Sign in to iNaturalist or create an account (it’s easy and takes under 1 minute!)
 1. For first time users, you will need to confirm your account via your email confirmation link.
 2. You can find the project by typing “Ground Nesting Bees” in the search bar in the upper left corner and clicking on the project Ground Nesting Bees. You will see the icon.
 3. Now you can explore the page:
4. To add an observation photo to the page, click on the red “Add Observations” banner.
 1. Import a photo file from your computer and add the location of the observation, the date, and any identification or other notes you may have. This information may automatically populate if the photo was taken from your phone,
 2. Click the blue save observation button in the bottom left.
5. You have now added your observation to the database!
 1. Congratulations you have just contributed to the goal of understanding and protecting our native ground nesting bees.

How to Add an iNaturalist Observation on a Phone:

1. Go to the Appstore and search for iNaturalist
 1. Download the App and open it.
 2. Create an account. For first time uses, you will need to confirm your account via your email confirmation link. Now log in.
2. Select projects on the bottom right-hand side of the screen.
 1. Under 'Joined', search for 'Ground Nesting Bees'
 2. Now select 'Join'.
3. Upload an observation.
 1. Click on the bottom 'Observe' (camera) icon.
 2. Click on photo library and select the photos you want, and then press 'Add' in the top right corner.
4. Select 'what did you see' and add your suggestion.
5. Make sure you have chosen a location; you can zoom in on the map to show the area and press 'Save' in the top right corner.
6. Then, select projects, and project Ground Nesting Bees should appear with the icon. Select the project.
7. Report the number of nests entrances in the area (1, 10, 100, 1000, 10,000, etc.)
 1. Go back to details of observation and press done.
8. You have now added your observation to the database!
 1. Congratulations you have just contributed to the goal of understanding and protecting our native ground nesting bees.

HOW TO MAKE A TOP-RATE OBSERVATION

- 1) Location accuracy
- 2) Photo documentation
- 3) Count of nest entrances
- 4) Description of site
- 5) Estimation of slope
 - 1) Measure app
- 6) Estimation of aspect
 - 1) Compass app



EXCELENT!

Email:
groundnestingbees@gmail.com

Bradley's Mining Bee (*Andrena bradleyi*)

Research GradeFollow

roughlegged
1,147 observations

Observed:
May 1, 2025 - 1:42 PM ADT

Submitted:
May 4, 2025 - 1:33 PM EDT

Glenwood, NS B0W 1W0, Canada

mollymjacobson faved this observation

Notes

Revisiting aggregation from last year for Ground Nesting Bee project. Moderate activity, counted 110 nests. Bee in closeups was captured as she started to enter the nest center field in photo 8. Photo 9 shows a different bee emerging from another nest and photo 10 shows a third bee starting an excavation within the aggregation. Photos 11 and 12 show the aggregation, which is on the shoulder of a dirt road facing WSW and just downslope of the summit of a small rise in the road, but the adjacent terrain slopes down to the road. Some nests are below the alders and others have no overhead cover. Have not noted any nests under adjacent leaf litter but can't rule it out. Have only seen the one *Andrena* species in this aggregation.

Community Taxon

Bradley's Mining Bee (*Andrena bradleyi*)

Cumulative IDs: 2 of 2

02/3rds2

✓ Agree⚖ Compareℹ About

The nesting area



Nesting activity



Bee using the nest



The head shape and fovea



The wing veins and abdomen



Approximate bee size



DETERMINE INTER-NESTING

Rare, Thriving Native Bee Nesting Site Documented on Campus

05/26/2024

College photographer's hobby leads to interest from Cornell University researchers



THANK YOU!

