STATE OF CAMPUS AS LAB: ACADEMIC YEAR 2018

WHAT IS CAMPUS AS LAB?

CAL is research and learning that takes place at the nexus of academics and operations using three pillars:

- **Student experience:** Are students engaging with real-world problems?
- **Campus impact:** Are projects advancing sustainability goals of our institution?
- **Replicability:** Are we producing knowledge and methods that others can use to solve global challenges?

**Research Highlights:**

The Princeton Vertical Farming Project (PFVP), led by Paul Gauthier, produced two Senior Theses. Jesenia Haynes ’18 found that conventional farming uses 6x as much water as PFVP. Aamir Zainulabadeen ’18 designed an automated data collection system to optimize yield.

Artemis Eyster ’19 led 8 of her peers in the student-initiated seminar, Analyzing Ecological Integrity. The students provided recommendations to campus planners about preserving naturalized areas of campus as the university expands.

Cecilia Shang’s ’18 senior thesis used choice architecture to reduce meat consumption in University dining halls.

Gáspár Bakos conducted an aerial flyover of campus at night to analyze light pollution. The results of his study were incorporated into implementation work of the 2026 Campus Plan to develop campus without adversely impacting wildlife.

**CAL Projects Active or Complete:**

Most CAL projects straddle multiple disciplines; this breakdown represents success towards the goal of more interdisciplinary in CAL work.

43 CAL PROJECTS ACTIVE OR COMPLETE

**Topics of CAL Projects**

- Waste
- GHGs
- Behavior Change
- Food
- Habitat
- Communications
- Water

**CAL Engagement:**

- 5 Courses dedicated to CAL
- 9 Active faculty research projects
- 15 student-generated coursework projects
- 3 Course field trips
- 3 Senior Thesis projects
- 1 Masters’ Thesis

https://sustain.princeton.edu/lab