

Lilly Rose Froeming

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Objectives

To share accomplishments outside of PCS.

Projects

Algae Bio-Fertilizer Research; 2024-present

Principal Investigator, Facilitator and Project Manager

Using algae to improve compost quality to develop a sustainable fertilizer for plant growth.

- Remove harmful algae blooms from the California Delta which contaminate the water as well as harm the ecosystem, humans, and animals.
- Increase crop growth by developing a sustainable fertilizer from algae and homemade compost.
- Apply ozone to fresh produce to increase fruit and vegetable shelf life.
- Determine whether this algae biofertilizer can prevent pests as a replacement for pesticides.



Algae Blooms in the California Delta



Beta Testing Radishes



Drilling Compost Bucket



Compost Forming



Weighing Dried Algae



Algae:Compost Ratio



Compost + Algae

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TEDx Speaker; Nov 2025

TEDxMeritAcademy; Susan Tatsui-D'Arcy

Link coming soon



Environmental Science Research Paper; 2025

Name of Publisher; Work in progress

Link coming soon

Algae Biofertilizer Website; 2025

www.algaebiofertilizer.com

Volunteering

BASE CAMP LEADER; 2022-2024

Pacific Collegiate School; Mary Gardner (Latin and APUSH teacher)

Supported 7th grade students as they entered middle school. Responsible for helping students meet new friends and navigating PCS's policies. Worked with incoming students for 3 days prior to the start of the school year.

FOOD BANK DISTRIBUTOR; 2022-2023

Second Harvest of Silicon Valley; Leslie Bacho, Chief Executive Officer

Organized vegetables, grains, and canned/package goods. Checked families into the system with their ID cards. Helped families collect groceries and carry goods to their cars.



RIVER CLEAN-UP TRACKER; 2023

Save Our Shores; Krista Rogers, Program Manager

Collected and organized several bags of trash into plastics, glass, paper, aluminum, chemicals, needles, and cigarette buds. Weighed the mass of each category and recorded findings on the Save Our Shores website. Performed clean-up duties on the San Lorenzo River in Santa Cruz.



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Employment

SERVER; 2024-present

The Penny Ice Creamery; Jai Roberto

Handle cash and credit card sales. Serve ice cream while communicating with tourists, college students, and families. Manage the work area by keeping it clean and organized.

WINDOW WASHER; April 2025-present

Pacific Shine Window Cleaning; Lucas Froeming

Clean windows, skylights, and solar panels using ladders, poles, and squeegees. Climb 2-story houses with ladders to access skylights and solar panels. Cautiously maneuver inside homes to avoid breaking precious items. Communicate with customers while cleaning indoor areas.



BABYSITTER; 2024-present

Care for and play with children while their parents are away. Read books, change diapers, feed meals, and put toddlers to bed. Monitored iPad use and entertained elementary school children.



Academic Awards

Student of the Grading Period; March, 2025

Pacific Collegiate School; Randy Garrett

Exemplary resilience and perseverance in AP Calculus BC

Student of the Grading Period; October, 2025

Pacific Collegiate School; Juan Martinez

Outstanding curiosity and engagement in Art 2

Student of the Grading Period; March, 2024

Pacific Collegiate School; Rebecca Jot

Exceptional focus and participation in AP French

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Sports Awards

3-Mile Personal Record; October, 2024

5th Annual Jackie Henderson; North Monterey County

3 miles – 22:00; *Personal record, and 78th place among 154 runners*

1st Place in Track and Field 1600; April, 2024

Pajaro Valley Education Foundation; David Lamb

1600 meters – 6:06.15; *Fastest time among ten runners from seven high schools in Pajaro Valley Schools.*

Personal Record for Track and Field 1600; April, 2024

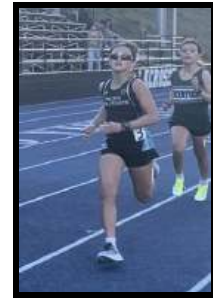
2024 Santa Cruz County Meet of Champions; Thad Moren

1600 meters – 5:59.67; *Personal Record; Placed 14th among 18 runners at Aptos High School*

Personal Record for Track and Field 3200; May, 2024

PCAL Master's Meet/Pacific Grove High School; Chris Morgan

3200 meters – 12:46.25; *Personal Record; Placed 11th among 18 runners at Pacific Grove High School*



2nd Place in Track and Field 3200; April, 2024

Monte Vista Christian School; Mark McConnell

3200 meters – 13:12.74; *Second place among six runners*



1st Place in the Cross Country 5K; October, 2023

Pacific Coast Athletic League (PCAL); Santa Lucia

5000 meters – 19:50.49; *Fastest time among 58 runners and 18 high schools*

Sports & Exercise

Varsity Tennis Player; Fall 2023

Pacific Collegiate School Pumas; Santa Cruz, CA

Played Singles, practiced twice a week at Harbor High School



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Flag Football Player; Fall 2024

Pacific Collegiate School Pumas; Santa Cruz, CA

Played on PCS's first flag football team, practiced twice a week.

Played against high schools in Santa Cruz and Monterey Counties.



Varsity Soccer Player; Spring 2022-present

Pacific Collegiate School Pumas; Santa Cruz, CA

Played forward on the team since freshman year. Practiced 3-4

times a week; played against other high schools in Santa Cruz

and Monterey Counties.



Education

Pacific Collegiate School; 2020-present

Santa Cruz, CA

School ranked #8 in high schools in California by U.S. News & World Report

School Ranked #80 in National Rankings for high schools by U.S. News & World Report

GPA: 4.30

Skills

Computer and Programming Skills:

AutoCad

Office Skills:

Google Drive

Film Making Skills:

FinalCutPro, Photography, Cinematography, CapCut, iMovie

Interests

Hiking, gardening, snowboarding, cooking, running, biking, crocheting, painting, drawing, soccer, tennis, boogie boarding, swimming, boating, and reading.