

Josh Felton (he/they)

jmf425@cornell.edu — 612-559-4832

EDUCATION

Cornell University

PhD Expected May 2028

Section of Plant Biology - Advisor: Chelsea Specht

Colorado College, Colorado Springs

May 2022

Major: B.A. Distinction in Organismal Biology and Ecology - GPA: 3.53

Honors Senior Thesis: Comparative Reproductive Biology of Two Self-Compatible Bromeliaceae

OTS Tropical Ferns and Lycophytes, Costa Rica

June 2022

TEACHING and Guest Lectures

Features of Colorado's Major Plant Families

June 2023

Guest lecture for Colorado College BE 202 Field Botany

GRASSHOPPR - South Seneca High School

Spring 2024

Flourish and Evolve: A Botanical Adventure

Showcase a Scientist

April 2024

Guest lecture for SUNY Cortland BIO110

RESEARCH AND WORK

Paraprofessional

Colorado College, Organismal Biology and Ecology

2022-2023

Worked closely with faculty and staff in the preparation and instruction of biology classes.

Research Assistant, Lab of Rachel Jabaily

Colorado College

2020-2022

Collected morphological data on vegetative and reproductive structures.

Research Student, Lab of Nicole Miller-Strutmann

Webster University (virtual)

Summer 2021

Conducted bee network analysis on citizen science data for Shutterbee Program virtually.

Biology of Plants Tutor

Colorado College

2020-2022

Individual tutor and TA for Biology of Plants.

Chaplain's Office Intern

Colorado College

2019-2022

Helped deepen students' involvement with Spiritual Life and organized events for spiritual growth.

FELLOWSHIPS and SCHOLARSHIPS

Nurturing Tomorrow's Scientists Grant, Botanical Society of America

2021 and 2022

Received grant to attend the meeting, mentoring, and participate in networking events.

Keller Family Venture Grant, Colorado College

2022

\$1,000 - connected with Fairchild Tropical Botanical Garden scientists and explored native populations of *Tillandsia* in Florida.

SUNY Diversity Fellowship, State University of New York 2023 & 2028

\$67,860 - Stipend support during the first and final year for recruitment of research degree students in graduate fields within contract colleges.

Graduate Research Fellowship, National Science Foundation 2024-2027

\$111,000 - Stipend support for graduate students who demonstrate the potential to make significant contributions in STEM.

Kathryn J. Boor '80 Experiential Learning Fund, Cornell University 2024

\$400 - Research funds to enhance the professional goals and academic experiences support for College of Agricultural Sciences students

AWARDS

Cornell University Hackathon Top Prize 2023

Ferda: A 100% bee-based beverage. - <https://tinyurl.com/hackathon-news-article>

Organismal Biology and Ecology Mary Alice Hamilton Award 2022

Awarded to outstanding senior biology majors.

Botanical Society of America Young Botanist Award 2022

PRESENTATIONS

Reproductive effort in *Vriesea rafaellii* (Bromeliaceae) April 2021

OBE Day, Colorado College, poster

The role of non-native plants in urban bee visitation networks August 2021

Summer Intern Virtual Symposium, Missouri Botanical Garden, presentation

Comparative Reproductive Biology of Two Self-Compatible Bromeliaceae April 2022

OBE Day, Colorado College, presentation

Comparative Reproductive Biology of Two Self-Compatible Bromeliaceae July 2022

BOTANY, Anchorage, AK, presentation

Trichome Tales: Unraveling Bromeliaceae Reproductive March 2024

Indumentum Diversity

MONOCOTS, San Jose, CR, poster

Exploring Reproductive Investment and Breeding System Evolution March 2024

in Bromeliaceae

MONOCOTS, San Jose, CR, presentation

Capture the SNP: Suggestions from in-silico capture on sequencing for demographic parameters June 2024

BOTANY, Grand Rapid, MI, presentation

PUBLICATIONS

Felton, J.M., Heschel, M.S., Bodine, E.N., Jabaily, R.S. (in review, Journal of The Bromeliad Society) Comparative reproductive biology and impacts of selfing in two epiphytic Bromeliaceae.

Felton, J.M., Jelley, C., Harden, J., Scholten, J.T, Graber, L., Heeney, M., Rizzieri, Y.C, Specht,

C.D, Landis, J.B (in prep) The power to resolve relationships: Identifying Incongruence and precision of Reduced-Representation and Genome-Wide Data in Phylogenomics and Population Genomics

Oberle, B., **Felton, J.M.**, Sidoti, B., Bodine, E., Jabaily, R.S (in prep) Growth tradeoffs distinguish sexual from asexual reproduction among bromeliads

NON-PEER REVIEWED PUBLICATIONS

Felton, J. & Hartung, E. 2023. Student Section. Plant Science Bulletin 69(3): 268 – 270

Felton, J. & Hartung E. 2024. Student Section. Plant Science Bulletin 70(1): 93 - 96

Ajayi B. & **Felton, J.** 2024. Student Section. Plant Science Bulletin 70(2) 2024 174 - 176

Ajayi B. & **Felton, J.** 2024. Student Section. Plant Science Bulletin 70(3) 2024 302 - 303

OUTREACH

Science communication 2022 - present
instagram: botany.baller

Balling with Botany: Urban and Rural Exploring 2022
Colorado College Outdoor Journal

Growth and Development Data Protocols for Bromeliads 2022
<https://tinyurl.com/bromeliadprotocol>

Moment of Um podcast, APM Studios 2022
Why do different flowers have different smells?
<https://tinyurl.com/feltonpodcast>

Rootbound podcast 2023
Episode 062: Mullein and Cherry Laurel
<https://tinyurl.com/mulleinrootbound>

Rootbound podcast 2024
Episode 133: Lantern of the Forest and American Elm
<https://tinyurl.com/catopsis-rootbound>

Belonging in Botany Panel Discussion Panelist 2024
Perspectives on Success in the Botanical Sciences - BOTANY 2024

Graduate School Insights and Tips for Success Panelist 2024
Colorado College <https://tinyurl.com/OBE-gradschool-panel>

SKILLS

- Field Skills: Plant specimen collection, plant identification in tropical and temperate biomes
- Languages: R, bash, html, markdown, LaTeX

MEMBERSHIPS

Botanical Society of America 2021-Present
Society of the Study of Evolution 2024-Present

SERVICE

Botanical Society of America	2023-2025
Board of Directors student representative	
Tenure Track Faculty Search, Colorado College	Spring 2023
Organismal Biology and Ecology Department	
PLANTS mentor	July 2023
Consider Cornell Academic Statement of Purpose Review	Fall 2023
Tenure Track Faculty Search, Cornell University	Fall 2023
Section of Plant Biology	
Treasurer	2023-present
Baileys Botany Bunch	
Treasurer	2023-present
Plant Biology Graduate Student Association	
Planting Science	Fall 2023
F2 Fellow	
Planting Science	Fall 2024
F2 Liaison	