# Gabriel C. Runte

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## Education

**PhD Candidate** | University of California, Santa Barbara - Ecology, Evolution, and Marine Biology. **Present**

Committee: Holly Moeller (chair), Leander Anderegg, Laura Bogar (UC Davis), Carla D'Antonio, Ryoko Oono

**M.A.** | University of California, Santa Barbara - Ecology, Evolution, and Marine Biology.

Thesis: Spheres of Influence: Host Tree Proximity and Soil Chemistry Shape rRNA, but Not DNA, Communities of Symbiotic and Free-Living Soil Fungi in a Mixed Hardwood-Conifer Forest **2021**

Committee: Holly Moeller (co-chair), Ryoko Oono (co-chair), Carla D'Antonio

**B.Sc.** | University of California, Santa Barbara - Environmental Studies.

**Minor** in Professional Writing for Science Communication **2018**

Writing Advisor: Amy Propen

## Publications

**Runte, Gabriel C**, R Oono, NA Molinari, SR Proulx, CM D'Antonio (2022). Restoring bigcone Douglas-fir post-fire in drought-stricken Southern California: Assessing the effects of site choice and outplanting strategies. *Frontiers in Forests and Global Change*. https://doi.org/10.3389/ffgc.2022.995487

Weverka, Jacob, **GC Runte**, EL Porzig, CJ Carey (2022). Exploring plant and soil microbial communities as indicators of soil organic carbon in a California rangeland. *Soil Biology and Biochemistry*. https://doi.org/10.1016/j.soilbio.2023.108952

**Runte, Gabriel C**, AH Smith, HV Moeller, LM Bogar (2021). Spheres of influence: Host tree proximity and soil chemistry shape rRNA, but not DNA, communities of symbiotic and free-living soil fungi in a mixed hardwood-conifer forest. *Frontiers in Ecology and the Environment*. https://doi.org/10.3389/fevo.2021.641732

## Grants, Fellowships, and Awards

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|---|---|
| Worster Award Fellowship ($5,000) | **2022** |
| Sonoma County Mycological Society Scholarship ($1,000) | **2022** |
| Schmidt Family Foundation Mentorship Award ($8,000) | **2021** |
| Associated Students Coastal Fund at UC Santa Barbara ($9,000) | **2021** |
| Honorable Mention, NSF Graduate Research Fellowships Program | **2021** |
| Garden Club of America Fellowship in Ecological Restoration ($4,000) | **2020** |
| Honorable Mention, NSF Graduate Research Fellowships Program | **2020** |
| Sonoma County Mycological Society Scholarship ($1,000) | **2020** |
| NSF Research Experiences for Undergraduates | **2018** |

UC Global Food Initiative Fellowship ($4,000) **2018**
Diana Raab Writing Fellowship ($750) **2018**

**Presentations**

Ecological Society of America Annual Meeting **2023**
8th Annual California Oak Symposium **2022**
Ecological Society of America Annual Meeting **2022**
Yosemite Symbiosis Workshop **2022**
Conservation Seminar Series, UC Santa Barbara* **2021**
Terrestrial Microbiology (EEMB 145) Guest Lecture on Fungi in the Environment* **2020**
UCSB EEMB Graduate Research Symposium **2019**
National Fish and Wildlife Fire Restoration Grantee Forum
* = Invited Talk

**Training**

CyVerse Foundational Open Science Skills (FOSS) Course **2023**
ESIIL Forest Resiliency Working Group **2023**

**Mentorship**

*Undergraduate Researchers*

Aubrey Chuen **2023**
Developed a non-destructive plant health survey method for greenhouse applications. This method is based on remote sensing techniques and uses a multispectral camera and R for image analysis. *Worster Award Recipient*

Bailey McKernan **2023**
Designed and implemented an experiment to assess how drought-conditioning might improve seedling outplant success in the backcountry. *Schmidt Family Foundation Mentorship Award Recipient, URCA Recipient*

Nicholas Haghani **2020**
After the campus closure due to COVID, Nicholas pivoted from a lab-based project to bioinformatic and statistical analyses on microbe communities in a highly stratified marine system. *Currently a PhD student at UC Davis*

**Teaching Experience**

*Teaching Assistant*

Ecological Modeling **2022**
Led a computer-based laboratory section introducing students to coding in R and working with calculus-based mathematical modeling using numerical simulations.

Introduction to Ecology (virtual) **2021**
Broad introductory course to many of ecology's foundational theories. Led discussion sections centered on literature interpretation.