

Gabriel C. Runte

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· [Google Scholar](#)

· <https://github.com/gaberunte>

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 Proppen

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

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	2022
8th Annual California Oak Symposium	2022
Yosemite Symbiosis Workshop	2022
Conservation Seminar Series, UC Santa Barbara*	2022
Terrestrial Microbiology (EEMB 145) Guest Lecture on Fungi in the Environment*	2021
UCSB EEMB Graduate Research Symposium	2020
National Fish and Wildlife Fire Restoration Grantee Forum	2019
* = Invited Talk	
Training	
ESIIL Forest Resiliency Working Group	2023
Mentorship	
<i>Undergraduate Researchers</i>	
Aubrey Chuen	Current
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. <i>Worster Award Recipient</i>	
Bailey McKernan	Current
Designed and implemented an experiment to assess how drought-conditioning might improve seedling outplant success in the backcountry. <i>Schmidt Family Foundation Mentorship Award Recipient, URCA Recipient</i>	
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. <i>Currently a PhD student at UC Davis</i>	
Teaching Experience	
<i>Teaching Assistant</i>	
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.	