

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. **2021**
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
Committee: Holly Moeller (co-chair), Ryoko Oono (co-chair), Carla D'Antonio
- B.Sc.** | University of California, Santa Barbara - Environmental Studies. **2018**
Minor in Professional Writing for Science Communication
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

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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	
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.	