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

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

Writing Advisor: Amy Propen

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) Diana Raab Writing Fellowship (\$750)	2018 2018
Presentations	
Ecological Society of America Annual Meeting 8th Annual California Oak Symposium Ecological Society of America Annual Meeting Yosemite Symbiosis Workshop Conservation Seminar Series, UC Santa Barbara* Terrestrial Microbiology (EEMB 145) Guest Lecture on Fungi in the Environment* UCSB EEMB Graduate Research Symposium National Fish and Wildlife Fire Restoration Grantee Forum * = Invited Talk	2023 2022 2022 2022 2021 2020 2019
Training	
CyVerse Foundational Open Science Skills (FOSS) Course ESIIL Forest Resiliency Working Group	2023 2023
Mentorship	
Undergraduate Researchers Aubrey Chuen 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	Current
Bailey McKernan 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	Current
Nicholas Haghani 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>	2020
Teaching Experience	
Teaching Assistant Ecological Modeling Led a computer-based laboratory section introducing students to coding in R and working with calculus-based mathematical modeling using numerical simulations.	2022
Introduction to Ecology (virtual) Broad introductory course to many of ecology's foundational theories. Led discussion sections centered on literature interpretation.	2021