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)	2018
Diana Raab Writing Fellowship (\$750)	2018

Presentations

Ecological Society of America Annual Meeting Terrestrial Microbiology (EEMB 145) Guest Lecture on Fungi in the Environment* 8th Annual California Oak Symposium Ecological Society of America Annual Meeting Yosemite Symbiosis Workshop Conservation Seminar Series, UC Santa Barbara* UCSB EEMB Graduate Research Symposium National Fish and Wildlife Fire Restoration Grantee Forum * = Invited Talk	2023 2020, 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	2022-2023
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. Masters Student at SDSU beginning fall 2024.	2021-2023
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>	2017-2020
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 Broad introductory course to many of ecology's foundational theories. Led discussion sections centered on literature interpretation. (2021 was via Zoom)	2021, 2024