Ryan A. Green

PHD CANDIDATE · BIOGEOCHEMICAL MODELING · MARINE CARBON DIOXIDE REMOVAL

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Education ___ University of California, Santa Cruz Santa Cruz, CA PHD EARTH SCIENCE 2019 - present • Advisor: Dr. Mathis Hain **University of California, Davis** Davis, CA **BS Environmental Policy** 2013 - 2018 • Minor in Oceanography • Graduated with honors & departmental citation Research Experience _____ 2019-present Graduate Student Researcher, Hain lab, University of California, Santa Cruz 2018-2019 Research Assistant, Climate Change Research Centre, University of New South Wales 2018 Undergraduate Research Assistant, Stachowicz Lab, University of California, Davis 2017 Undergraduate Research Assistant, Baskett Lab, University of California, Davis Publications _____ **PUBLISHED** Green, R.A., Menviel, L., Meissner, K.J., Crosta, X, Chandan, D., Lohmann, G., Peltier, W. R., Shi, X., and Zhu, J. 2022. Evaluating seasonal sea-ice cover over the Southern Ocean at the Last Glacial Maximum. Climate of the Past, 2(1): 1000-1100. IN REVIEW Green, R.A., Hain, M.H., and Rafter, P.A. 2023. Deglacial Pulse of Neutralized Carbon from the Pacific Seafloor: Constraints from the Radiocarbon Budget. Geophysical Research Letters. IN PREP **Green, R.A.**, Hain, M.H., Rafter, P.A., and Sun, C. Δ^{14} C Anomalies Explained? Constraints on Neutralized Carbon Release into the Eastern Tropical North Pacific. Paleoceangraphy and Paleoclimatology. **Green, R.A.**, Rafter, P.A., and Hain, M.H. Evaluating δ^{13} C as a Tool to Verify Additionality After mCDR. Awards, Fellowships, & Grants _____ 2022 Teaching Assistant of the Year, UCSC Earth and Planetary Science Department Graduate Dean's Research Travel Grant, UCSC Graduate Division Teaching Assistant of the Year-Honorable Mention, UCSC Earth and Planetary Science 2021 Department Teaching Assistant of the Year-Honorable Mention, UCSC Earth and Planetary Science 2020 Department 2019 Regents Fellowship, UCSC Earth and Planetary Science Department

UNSW Summer Vacation Scholarship, UNSW Climate Change Research Centre

2018 University Honors, UC DavisDepartmental Citation, UC Davis Environmental Science and Policy Department

2014-2017 Deans List, UC Davis

Presentations _____

CONTRIBUTED PRESENTATIONS

- **Green, R.A.**, Hain, M.H., Rafter, P.A., Gray, W.R., Rae, J.W.B., and ⁺Sun, C., 2023. Characterizing Geologic Carbon Release as an Explanation for Deglacial Δ¹⁴C Anomalies within the Eastern Tropical North Pacific. Oral presentation: AGU, Chicago, Illinois.
- Green, R.A. 2022. Introduction to Paleoclimatology. Oral presentation: No Jargon Talks, Santa Cruz, California.
- **Green, R.A.**, Hain, M.H., and Rafter, P.A. 2021. Constraints on Geologic Carbon Release at the End of the Last Ice Age from the Planetary Radiocarbon Budget. Oral presentation: AGU, New Orleans, Lousiana.
- **Green, R.A.**, Hain, M.H., and Rafter, P.A. 2021. Constraining Earth's Geologic Influence on the Global Carbon Cycle During the Last Ice Age from the Planetary Radiocarbon Budget. Poster presentation: Goldschmidt, Virtual.
- **Green, R.A.**, Hain, M.H., and Rafter, P.A. 2020. ¹⁴C-Constraints on the Deglacial Release of Geologic Carbon Using Atmospheric Records. Poster presentation: AGU, Virtual.
- **Green, R.A.**, Menviel, L., Meissner, K.J. 2019. Evaluating seasonal sea-ice cover over the Southern Ocean at the Last Glacial Maximum. Oral presentation: PAGES C-SIDE workshop at ICP13, Sydney, Australia.

Teaching Experience		
Winter 2023	Intro to Environmental Sciences, Teaching Assistant	UCSC
Winter 2022	Intro to Environmental Sciences, Teaching Assistant	UCSC
Winter 2021	Intro to Environmental Sciences, Teaching Assistant	UCSC
Fall 2020	Intro to Computer Programming for Geoscientists, Teaching Assistant	UCSC
Winter 2019	Intro to Environmental Sciences, Teaching Assistant	UCSC
Mentoring		
2022-present	David McCurdy, Research Mentee	UCSC
2021-present	Christopher Sun, Research Mentee	UCSC
2021	Beatrice O'Brien, Research Mentee	UCSC
2021	Caden Kang, Research Mentee	UCSC
2021	Jack Chang, Research Mentee	UCSC
Outreach & Professional Development		
SERVICE AND	OUTREACH	
2014-2017	UC Davis Football Special Olympics, Volunteer	Davis, CA
	Shriners Children's Hospital, Volunteer	Davis, CA
2016	Evening of Dreams Special Needs Prom, Volunteer	Davis, CA
LEADERSHIP		
2022-present	International Carbon Ocean Network for Early Career Scientists, Founding Member	Santa Cruz, CA
2018-2019	University of New South Wales, Assistant Football Coach	Sydney, AUS
2013-2017	UC Davis Football, Division-1 Student Athlete	Davis, CA

PROFESSIONAL MEMBERSHIPS

American Geophysical Union Geochemical Society