

Ryan A. Green

PHD CANDIDATE · BIOGEOCHEMICAL MODELING · MARINE CARBON DIOXIDE REMOVAL

UC Santa Cruz, 1156 High Street, Santa Cruz, CA 95064

✉ rygreen@ucsc.edu | 🏠 <https://ryanagreen.github.io/> | 📄 <https://github.com/RyanAGreen>

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. $\Delta^{14}\text{C}$ Anomalies Explained? Constraints on Neutralized Carbon Release into the Eastern Tropical North Pacific. *Paleoceanography and Paleoclimatology*.

Green, R.A., Rafter, P.A., and Hain, M.H. Evaluating $\delta^{13}\text{C}$ as a Tool to Verify Additionality After mCDR.

Awards, Fellowships, & Grants

- 2023 **ARCS Fellowship**, Achievement Rewards for College Scientists Foundation \$11,070
- 2022 **Teaching Assistant of the Year**, UCSC Earth Science Department
- Graduate Dean's Research Travel Grant**, UCSC Graduate Division \$500
- 2021 **Teaching Assistant of the Year-Honorable Mention**, UCSC Earth Science Department
- 2020 **Teaching Assistant of the Year-Honorable Mention**, UCSC Earth Science Department
- 2019 **Regents Fellowship**, UCSC Earth and Planetary Science Department \$7,254
- UNSW Summer Vacation Scholarship**, UNSW Climate Change Research Centre \$4,000

2018 **University Honors**, UC Davis

Departmental 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 $\Delta^{14}\text{C}$ 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, Louisiana.

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. ^{14}C -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
2014-2017	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