

SOPHIE RUEHR

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EDUCATION

2020-present **University of California Berkeley** Berkeley, CA
Ph.D. Student in Environmental Science, Policy, & Management

2014-2018 **Yale University** New Haven, CT
Bachelor of Science, Geology & Geophysics (cum laude)

RESEARCH & PROFESSIONAL EXPERIENCE

2020-present **UC Berkeley D-Lab** Berkeley, CA
Data consultant

2019-present **Be a Scientist!** Berkeley, CA
Science mentor to 7th grade students

2019-2020 **Provincetown Independent** Provincetown, MA
Newspaper staff reporter & editorial assistant

2018-2019 **Yale University Parker Huang Fellow** Port Vila, Vanuatu
Independent oral history and paleoclimate research

Summer 2017 **Woods Hole Oceanographic Institution** Woods Hole, MA
Summer Student Fellow

2016 & 2018 **Provincetown Banner** Provincetown, MA
Newspaper correspondent

Summer 2016 **Save the Harbor, Save the Bay** Boston, MA
Environmental Science & Policy Intern

PUBLICATIONS

1. Steen, M., Valverde, Y., and Ruehr, S. Socially distanced and ethically engaged: Approaches to remote research during the COVID-19 pandemic and beyond. In prep.
2. Keenan, T.F., Williams, C., Ruehr, S., Zhou, Y., Lu, X. 2021. Historic Increases in Carbon Uptake by Terrestrial Ecosystems: Evidence and Attribution. Invited manuscript in prep. for Nature Reviews Earth & Environment.
3. Rutkove, S.B., Le, M., Nagy, J.A., Ruehr, S., Semple, C., Sanchez, B. Design and pilot testing of a 26-gauge impedance-electromyography (iEMG) needle in wild type and ALS mice. Manuscript in review for Nerve & Muscle.
4. Ruehr, S. 2021. Beyond the vulnerability/resilience dichotomy: Perceptions of and responses to the climate crisis on Emau, Vanuatu. Island Studies Journal. [10.24043/isj.151](https://doi.org/10.24043/isj.151)
5. Ruehr, S., Lee, X., Smith, R... 2020. A mechanistic investigation of the oasis effect in the Zhangye cropland in semiarid western China. Journal of Arid Environments, 176; 104120. [10.1016/j.jaridenv.2020.104120](https://doi.org/10.1016/j.jaridenv.2020.104120)

6. Espeland, M., Hall, J.P., DeVries, P.J., Ruehr, S. 2015. Ancient Neotropical origin and recent recolonisation: Phylogeny, biogeography and diversification of the Riodinidae (Lepidoptera: Papilionoidea). *Molecular Phylogenetic Evolution*. December 2015; 93:296-306. [10.1016/j.ympev.2015.08.006](https://doi.org/10.1016/j.ympev.2015.08.006)
7. Chin, A., Ruehr, S., Tarulli, A., Rutkove, S. 2007. Saline-saturated Balsa Wood as a Testing Medium for Rotational Electrical Impedance Myography. *IFMBE Proceedings*, 17:272-275. [10.1007/978-3-540-73841-1_72](https://doi.org/10.1007/978-3-540-73841-1_72)

MEDIA & PRINT JOURNALISM OUTLETS

- 2019, 2020 Provincetown Independent
- 2019 InsideClimate News
- 2019 WOMR Cape Cod's Outermost Radio
- 2016, 2018 Provincetown Banner

ORAL PRESENTATIONS

1. Ruehr, S., Giroto, M., Keenan, T.F. Quantifying ecosystem reliance on groundwater (Fall 2021). H51E-01. AGU fall meeting, New Orleans, LA, USA.
2. Ruehr, S., Gerlein-Safdi, C., Falco, N., Keenan, T.F., Torn, M. S. Picturing SIF: field readiness and initial results from a novel SIF imaging instrument (Fall 2021). B22C-09. AGU fall meeting, New Orleans, LA, USA.
3. Ruehr, S. Carbon emissions and offsets: Global and local research. ARCS Forward National Speaker Series, distinguished speaker (August 24, 2021). Ohio ARCS Chapter, Cleveland, OH, USA.
4. Ruehr, S. Celebration of Distinguished Fellows Selected Student Speaker (April 26, 2021). University of California Berkeley, CA, USA.
5. Ruehr, S. Achievement Rewards for College Scientists Symposium Selected Scholar (April 20, 2021). National presentation, USA.
6. Ruehr, S., Lee, X., Smith, R. Latent heat drives cooling over oases (December 2020). H026-01A. AGU Fall Meeting, USA.
7. Ruehr, S. Stakeholder feedback for a paleoclimate study. (December 10, 2019). Coastal Research Laboratory, Woods Hole Oceanographic Institution, Woods Hole, MA, USA.
8. Ruehr, S. Tracing ancient cyclones: paleoclimate, oral history & climate futures. (November 8, 2018). University of the South Pacific Emalus Campus, Vanuatu.
9. Ruehr, S. The Oasis Effect: Evaluating Intrinsic Biophysical Mechanism Theory and its Implications for Sustainable Water Management in Zhangye, Gansu, China. (May 11, 2018). Dept. of Geology & Geophysics, Yale University, New Haven, CT, USA.
10. Ruehr, S. & Lee, X. Intrinsic Biophysical Mechanism Theory & the Oasis Effect. (March 15, 2018). Key Laboratory of West China's Environmental System, Lanzhou University, Gansu, China.
11. Ruehr, S. & Lee, X. Intrinsic Biophysical Mechanism Theory & the Oasis Effect. (March 13, 2018). School of Geography, Beijing Normal University, Beijing, China.

POSTER PRESENTATIONS

1. Ruehr, S., Keenan, T.F., Giroto, M. Inter-annual groundwater variation affects ecosystem productivity. (October 2021). AmeriFlux Fall Meeting.

2. Ruehr, S., Lee, X., Smith, R... A mechanistic investigation of the oasis effect in the Zhangye cropland in semiarid western China. (October 2020). AmeriFlux Fall Meeting.
3. Castagno, K., Ruehr, S., Donnelly, J., Woodruff, J. Grain-size distribution and patterns in storm-induced event beds in a coastal pond. (October 2018). EP13D-2125. American Geophysical Union Fall Meeting.
4. Ruehr, S., Castagno, K., Donnelly, J. Newfound aspects of ancient hurricanes: reconstructing storm intensity and sediment deposition dynamics in northeastern coastal ponds. (August 2017). Summer Student Fellow Poster Session, Woods Hole Oceanographic Institution, Woods Hole, MA.

AWARDS

2021 **First Place: Science/Technology Reporting**

New England Newspaper Association

2021 **First Place: Health Reporting**

New England Newspaper Association

2018 **Hammer Prize**

Yale University Department of Geology & Geophysics

FELLOWSHIPS

2020 **Environmental Forum Starter Grant**

Dept of Environmental Science, Policy and Management, University of California Berkeley

In support of conference attendance and dissertation research

2020 **Achievement Rewards for College Scientists Fellowship**

ARCS Northern California Chapter

Financial support for first two years of graduate study

2018 **Parker Huang Undergraduate Travel Fellowship**

Yale University

In support of independent research in Vanuatu

2017 **Karen Von Damm 1977 Fellowship**

Yale University Dept. of Geology & Geophysics

In support of senior honors thesis field research in China

2017 **Summer Student Fellowship**

Woods Hole Oceanographic Institution

In support of hurricane paleoclimatology research

2015 **Michael Coe Fieldwork Fund**

Council on Archaeological Studies at Yale

In support of archaeology research in Israel

SKILLS

Languages	Bislama (advanced), French (intermediate), Italian (basic)
Computer languages	Python, MATLAB, R, Bash, Git
Software	LaTeX, Wordpress, GIS, ENVI, RStudio