

Ryan A. Venturelli [she/her]

| | | |
|-------------------------------|---|---|
| CONTACT INFORMATION | Department of Geology and Geological Engineering Colorado School of Mines 1500 Illinois Street Golden, CO 80401 USA | <i>E-mail:</i> venturelli@mines.edu <i>Phone:</i> 219.808.0251 <i>Website:</i> rad-subglacial.github.io |
| RESEARCH INTERESTS | I am an isotope geochemist with expertise in Quaternary geochronology, paleoglaciology, and paleothermometry. My research is centered on the application of novel carbon extraction techniques to place chronological constraints on recent Antarctic ice sheet change. | |
| ACADEMIC APPOINTMENTS | Assistant Professor Colorado School of Mines, Golden, CO Department of Geology and Geological Engineering | Aug. 2022–present |
| | Postdoctoral Fellow Tulane University, New Orleans, LA Department of Earth and Environmental Sciences Mentor: Dr. Brent M. Goehring | Feb. 2021–Aug. 2022 |
| EDUCATION | Ph.D. in Marine Geology University of South Florida, St. Petersburg, FL Dissertation: <i>Investigating the Recent History of a Changing Planet with Innovative Isotopic Techniques and New Geologic Archives</i> Advisor: Dr. Brad E. Rosenheim | 2021 |
| | M.S. in Earth and Quaternary Systems Indiana State University, Terre Haute, IN Thesis: <i>The Ecology of Deep Sea Benthic Foraminifera on the California Margin: Epifaunal Taxa in an Infaunal World</i> Advisor: Dr. Anthony E. Rathburn | 2015 |
| | B.S in Geology Indiana University Northwest, Gary, IN | 2013 |
| SELECTED JOURNAL PUBLICATIONS | <p>[4] Gustafson, C.G., Key, K., Siegfried, M.R., Fricker, H.A., Venturelli, R.A., Michaud, A.B. A dynamic saline groundwater system mapped beneath an Antarctic ice stream. <i>Science</i>, 376(6593), 640-644, doi: 10.1126/science.abm3301</p> <p>[3] Johnson, J.S., Venturelli, R.A., Balco, G., Allen, C.S., Braddock, S., Campbell, S., Goehring, B.M., Hall, B.L., Neff, P.D., Nichols, K.A., Rood, D.H., Thomas, L.R., Woodward, J. Existing and potential evidence for Holocene grounding line retreat and readvance in Antarctica. <i>The Cryosphere</i>, 16(5), 1543-1562. doi: 10.5194/tc-16-1543-2022.</p> <p>[2] Priscu, J.C., Kalin, J., Winans, J., Campbell, T., Siegfried, M.R., Skidmore, M., Dore, J., Leventer, A., Harwood, D., Duling, D., Zook, R., Burnett, J., Gibson, D., Krula, E., Mironov, A., Roberts, G., Rosenheim, B. E., Christner, B., Kasic, K., Fricker, H.A., Lyons, W.B., Barker, J., Bowling, M., Collins, B., Davis, C., Gagnon, A., Gardner, C., Gustafson, C., Li, W., Michaud, A.B., Patterson, M.O., Tranter, M., Venturelli, R.A., Vick-Majors, T., Elsworth, C., and The SALSA Science Team. (2020) Scientific Access into Mercer Subglacial Lake: Scientific Objectives, Drilling Operations and Initial Observations, <i>Annals of Glaciology</i>, doi: 10.1017/aog.2021.10</p> <p>[1] Venturelli, R.A., Siegfried, M.R., Roush, K.A., Li, W., Burnett, J., Zook, R., Fricker, H.A., Priscu, J.C., Leventer, A., and Rosenheim, B.E. (2020) Mid-Holocene grounding line retreat</p> | |

and readvance at Whillans Ice Stream, West Antarctica. *Geophysical Research Letters*, 47, doi: 10.1029/2020GL088476.

RESEARCH
FUNDING

National Science Foundation

Title: Collaborative Research: Sensitivity of the West Antarctic Ice Sheet to 2° Celsius \$96,600*
Period: September, 2021–August, 2025
Award Number: OPP 2035035
PI: Molly Patterson (Binghamton)
Co-Is: Justin Dodd (NIU), Amy Leventer (Colgate), Paul Winberry (CWU), David Harwood (UNL), Jeanine Ash (Rice), Jacqueline Austermann (Columbia), Jonathan Kingslake (Columbia)
*Venturelli sub-contract from total \$3,240,796

HONORS
AND
AWARDS

University of South Florida

COLLEGE OF MARINE SCIENCE

Sackett Prize for Innovative Research 2021
Gulf Oceanographic Trust Fellowship 2018–2019
Jack and Katharine Ann Lake Fellowship 2017–2018
Paul Getting Endowed Memorial Fellowship 2016–2017
Anne and Werner Von Rosenstiel Fellowship 2015–2016

OFFICE OF GRADUATE STUDIES

International Travel Grant 2017
Graduate Student Research Symposium Presentation Winner 2017

Indiana State University

COLLEGE OF GRADUATE AND PROFESSIONAL STUDIES

Research and Creativity Award 2015

EARTH AND ENVIRONMENTAL SYSTEMS

Outstanding Graduate Assistant Award 2015

Indiana University Northwest

GEOSCIENCES

Karen Brunson Memorial Award 2013

FIELD
EXPERIENCE

Subglacial Antarctic Lakes Scientific Access (SALSA) Project

Mercer Ice Stream, West Antarctica 2018-2019
Subglacial water and sediment sampling

McMurdo Station, West Antarctica 2017-2018
Contamination remediation and preparation of a deep field laboratory

PROFESSIONAL
ORGANIZATIONS

American Geophysical Union (AGU), Geological Society of America (GSA)