Wilson Sauthoff (he/they)

Contact Department of Geophysics Information Colorado School of Mines

1500 Illinois St.

Golden, CO 80401 USA

Education Hydrologic Science and Engineering Ph.D. (in progress)

Data Science M.Sc. (in progress)

Colorado School of Mines

Advisor: Dr. Matthew Siegfried, (8/2020–Present)

Ocean Sciences M.Sc.

University of California Santa Cruz

Advisors: Drs. Christina Ravelo & Matthew McCarthy, (9/2013–9/2016)

Environmental Science and Management B.Sc.

University of California Davis

Oceanography minor, Advisor: Dr. Tessa Hill, (9/2010-6/2013)

Peer- Brault, E., Koch, P., McMahon, K., Broach, K., Rosenfield, A., Sauthoff, W., Loeb, V., Arrigo, K.,

Reviewed Smith, W. (2018). Carbon and nitrogen isoscapes in West Antarctica reflect oceanographic

Publications transitions. Marine Ecology Press Series. http://doi.org/10.3354/meps12524

Serrato Marks, G., LaVigne, M., Hill, T., **Sauthoff, W.**, Guilderson, T., Roark, B., Dunbar, R., Horner, T. (2017). Reproducible Ba/Ca variations recorded by northeast Pacific bamboo corals. *Paleoceanography and Paleoclimatology*. http://doi.org/10.1002/2017PA003178

sauthoff@mines.edu

glaciology.mines.edu

Moffitt, S., Moffitt, R., **Sauthoff, W.**, Hewett, K., Davis, K., Hill, T. (2015) Paleoceanographic insights on recent oxygen minimum zone expansion: Lessons for modern oceanography. *PLOS ONE*. http://doi.org/10.1371/journal.pone.0115246

Other Publications

Siegfried, M., Schroeder, D., **Sauthoff, W.**, Smith, B. (2021) Investigating a large subglacial lake drainage in East Antarctica with ice-penetrating radar. *SEG Technical Program Expanded Abstracts*. https://doi.org/10.1190/segam2021-3582777.1

Ruck, K., Sheffield Guy, L., Chetty, S., French, N., Seefeldt, M., Carpenter, P., Frey, K., Griffith, P., Prior-Jones, M., **Sauthoff, W.** (Eds.). (2020). Polar Technology Conference 2020 Report. Arctic Research Consortium of the US (ARCUS). https://www.arcus.org/publications/31301

Isern, A., Burtler, N., Shanhun, F., **Sauthoff, W.** (Eds.) (2019). Report on International Ross Sea Region Collaboration and Coordination Workshop. Scientific Committee on Antarctic Research. https://www.scar.org/scar-news/pais-news/ross-sea-workshop-report/

Sauthoff, W., Ravelo, C., McCarthy, M. (2016). Nitrogen isotopes of amino acids in marine sediment: A burgeoning tool to assess organic matter quality and changes in supplied nitrate $\delta^{15}N$. M.Sc. thesis, University of California Santa Cruz. http://escholarship.org/uc/item/63r5v4zj

Sauthoff, W. (2013) Gulf of Alaska and California bamboo corals: A new archive of climate change. *Explorations: The UC Davis Undergraduate Research Journal*, Vol. 15. http://explorations.ucdavis.edu/2013/sauthoff wilson.html Awards WAIS Workshop Early Career Researcher travel grant, \$651, (9/2021)

HSE Student Leadership Award, (5/2021) NSF Antarctic Service Medal, (03/2017)

Graduate Student Association Travel Grant, \$288, (5/2015)

Myers Oceanographic Trust Grant, \$1100, (4/2015) Friends of Long Marine Lab Grant, \$950, (1/2015)

PADI Foundation Grant, \$1685, (9/2013)

Provost's Undergraduate Fellowship, \$894, (12/2011)

Mentoring Colorado School of Mines

Kayla Hubbard, M.Sc. student, (2021), now NSF science assistant

University of California Santa Cruz

Natalia Spritzer, Science Internship Program high school intern, (2015)

Sami Chen, undergraduate lab assistant, (2014-2015), now Ph.D. student at Stanford

Nicolette Chiem, undergraduate CalTeach intern, (2014-2015)

Linda Pineda, undergraduate researcher, (2015-2016)

Teaching Colorado School of Mines

Experience Teaching Assistant

Applications of Remote Sensing (Geophysics 470/570), 1/2022-5/2022,

Instructor: Dr. Matthew Siegfried

University of California Santa Cruz

Teaching Assistant

Ecology & Society (Environmental Studies 100L), 1/2016-3/2016,

Instructors: Drs. Sharifa Crandall & Philip Longo

Microbiology (Microbiology & Environmental Toxicology 119), 9/2015-12/2015, Instructor: Dr.

Victoria Stone

Our Changing Planet (Oceans 80B), 9/2014-12/2014, 4/2014-6/2014, Instructor: Dr. Matthew

McCarthy

University of California Davis

Laboratory Teaching Assistant, Mathematics and Science Teaching Program for biological science laboratory (BIS 2A-CL), 1/2012–3/2012

Biological Sciences Tutor, Student Academic Success Center, 6/2011-12/2011

Instructor, Biological Sciences supplemental course (BIS 98), 4/2011-6/2011

Professional Experience

Professional National Science Foundation Polar Programs

Alexandria, Virginia

Science Assistant, Facilitating merit-based review of scientific proposals for funding consideration; Performing proposal and award data analysis to assess trends in metrics including institution parameters, proposing researcher demographics, etc. to achieve portfolio balance and broader impacts; Writing internal documentation surrounding funding decisions; Project management of special initiatives to increase stakeholder engagement; Executive Secretary to Executive Management Board of cross-agency management partners of the U.S. Antarctic Program, (3/2018–8/2020)

Pacific Architects & Engineers

McMurdo Station, Antarctica

Environmental Specialist, Coordinated site assessments, remediation, monitoring, and training activities at primary logistical hub and remote field camps; Ensured compliance with regulatory policies pertaining to environmental protection and waste management observing the Antarctic Treaty; Collected and analyzed environmental samples; Maintained GIS and GPS records; Authored technical reports, (7/2017–2/2018)

Monterey Bay Aquarium Research Institute

Moss Landing, California

Ocean Chemistry Intern, Researched deep-sea oil leaks using laser Raman spectroscopy to model environmental fate of oil pollution and methane seeps; Coded data reduction program; Mobilized materials for fieldwork, (6-9/2013)