

THERESA SAWI

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RESEARCH INTERESTS

Machine learning applications in seismology, fluid-mediated seismicity, cryoseismology, volcano-seismology

EDUCATION

Columbia University/Lamont-Doherty Earth Observatory 2023 (*in progress*)
PhD student (seismology)

Columbia University/Lamont-Doherty Earth Observatory 2020
Masters of Arts; Geophysics (seismology)

University of California, Berkeley; 2018
Bachelor of Arts; Earth and Planetary Science/Geophysics
Highest Distinction in General Scholarship
Highest Honors in Geophysics, GPA 3.96

AWARDS & RECOGNITIONS

National Science Foundation Graduate Research Fellow 2020-2023

Brinson Foundation Fellowship 2019

Departmental Citation, Earth and Planetary Science 2017
Awarded for “contributions to the field of geophysics and commitment to the Department of Earth and Planetary Science”, UC Berkeley

Charles H. Ramsden Endowed Scholarship 2017
Awarded to aid seismological research, UC Berkeley

REFEREED PUBLICATIONS

- (1) **Sawi, T.**, Holtzman, B., Paisley, J., Walter, F., Nettles, M. (in prep, 2021) *An Unsupervised-Machine-Learning-Approach to Understanding Seismicity at an Alpine Glacier*.
- (2) Carr B., Lev E., **Sawi, T.**, Bennett K., Edwards C., Soule A., Vargas S., Marliyani G., Clarke A., (in revision, 2020) *Mapping and classification of volcanic deposits using multi-sensor Unoccupied Aerial Systems*. J. Appl. Volcanol.
- (3) **Sawi, T.**, and M. Manga (2018) *Revisiting short-term earthquake triggered volcanism*. Bulletin of Volcanology. 80. 10.1007/s00445-018-1232-2.

CONFERENCE POSTERS

- Machine Learning in Solid Earth Geoscience Conference, Santa Fe** 2020 (*cancelled*)
Is the information in the quake or the noise?
Comparative unsupervised feature extraction and clustering in two geologic settings.
- New York Scientific Data Summit, New York City** 2019
An Unsupervised-Machine-Learning Approach to Understanding Seismicity at an Alpine Glacier
- American Geophysical Union (AGU), Washington D.C.** 2018
Revisiting short-term earthquake triggered volcanism
- American Geophysical Union (AGU), New Orleans** 2017
Imaging fault structure using cross-correlation and relative earthquake location from the IRIS Wavefields community dataset in Oklahoma.
- International Association of Volcanology and Chemistry of Earth's Interior, Portland, OR** 2017
Revisiting Earthquake Triggered Volcanism.

TECHNICAL SKILLS

- Proficient in: Python, MATLAB, Unix/Linux, GMT, Github, LaTeX