

Theresa Sawi
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RESEARCH INTERESTS

Machine learning applications in seismology, earthquake early warning, fluid-mediated seismicity

EDUCATION

Columbia University/Lamont-Doherty Earth Observatory PhD candidate (seismology)	2018-Present
University of California, Berkeley; GPA 3.96 Bachelor of Arts; Earth and Planetary Science/Geophysics Highest Distinction in General Scholarship Highest Honors in Geophysics	2016-2018
City College of San Francisco (CCSF) Lower division coursework	2013-2016

AWARDS & RECOGNITIONS

National Science Foundation Graduate Research Fellowship Program	2020-2023
Brinson Foundation Fellowship	2019-2020
Departmental Citation, UC Berkeley Awarded for “contributions to the field of geophysics and commitment to the Department of Earth and Planetary Science”	2017
Charles H. Ramsden Endowed Scholarship Awarded to aid seismological research, UC Berkeley.	2017

REFEREED PUBLICATIONS

(1) **Sawi, T.**, Holtzman, B., Walter, F., & Paisley, J. (2022) *An unsupervised machine-learning approach to understanding seismicity at an alpine glacier*. Journal of Geophysical Research: Earth Surface, 127, e2022JF006909. <https://doi.org/10.1029/2022JF006909>

- (2) Carr B., Lev E., **Sawi, T.**, Bennett K., Edwards C., Soule A., Vargas S., Marliyani G., Clarke A., (2021) *Mapping and classification of volcanic deposits using multi-sensor Unoccupied Aerial Systems*. Remote Sensing of Environment 264, 112581. <https://doi.org/10.1016/j.rse.2021.112581>
- (3) **Sawi, T.**, and M. Manga (2018) *Revisiting short-term earthquake triggered volcanism*. Bulletin of Volcanology. 80. <https://doi.org/10.1007/s00445-018-1232-2>

CONFERENCE PRESENTATIONS

American Geophysical Union (AGU), Chicago Oral Presentation <i>A Semi-Supervised Machine-Learning Approach to Detecting Repeating Earthquakes on the San Andreas Fault</i>	2022
American Geophysical Union (AGU), San Francisco Conference Poster <i>An Unsupervised-Machine-Learning Approach to Understanding Seismicity at an Alpine Glacier</i>	2019
American Geophysical Union (AGU), Washington D.C. Conference Poster <i>Revisiting short-term earthquake triggered volcanism</i>	2018
European Geophysical Union (EGU), Vienna, Austria Conference Poster <i>Revisiting short-term earthquake triggered volcanism</i>	2018
American Geophysical Union (AGU), New Orleans Conference Poster <i>Imaging fault structure using cross-correlation and relative earthquake location from the IRIS Wavefields community dataset in Oklahoma.</i>	2017

OTHER SKILLS

Python, Bash (Linux), MATLAB, Git, LaTeX