Curriculum Vitae

Travis Alongi

Travis Alongi UC Santa Cruz Seismological Laboratory 1156 High st., Earth & Marine Sciences, Santa Cruz CA 9564

September 8, 2022

1 Research Interests

Offshore faults, fault damage zones, subduction zone seismology, seismic and aseismic slip.

2 Education

- PhD, Earth and Planetary Science (Expected graduation summer 2023)
  - University of California, Santa Cruz
- UC Extension program - Earth Science Coursework
  - University of California, Santa Cruz [GPA 4.0]
- Geology, Science, Mathematics
  - Cabrillo College, Aptos, CA [GPA 3.7]
- Bachelor of Science, Business (Dec. 2007)
  - San Jose State University, CA [GPA 3.52] Dean's Scholar

3 Publications

Alongi, T., Brodsky, E.E., Kluesner, J.W., Brothers, D.S., 2022, Using Active Source Seismology to Image the Palos Verdes Fault Damage Zone as

a Function of Distance, Depth, and Geology, Earth and Planetary Science Letters [resubmitted minor revisions Sept. 2022]

Alongi, T., Balster-Gee, A.F., Kluesner, J.W., Sliter, R.W., 2022, Reprocessed multichannel seismic-reflection data acquired offshore Southern California during USGS field activity O-1-99-SC: U.S. Geological Survey data release, `https://doi.org/10.5066/P9GR0PWF`

Alongi, T., Balster-Gee, A.F.,Kluesner, J.W., Sliter, R.W., 2022, Reprocessed multichannel seismic-reflection data collected offshore central and Southern California during USGS field activity L-4-90-SC: U.S. Geological Survey data release,`https://doi.org/10.5066/P9FOES4K`

Alongi, T., Schwartz, S. Y., Shaddox, H. R., & Small, D. T. (2021). Probing the Southern Cascadia Plate Interface with the Dense Amphibious Cascadia Initiative Seismic Array. Journal of Geophysical Research: Solid Earth, 126, e2021JB022180. `https://doi.org/10.1029/2021JB022180`

4 Research Position

- Using 3D Seismic Data to Study the Offshore Damage Zones, Kinematics and Earthquakes in the Palos Verdes Fault Region
  - UC Santa Cruz and USGS Pacific Marine Coastal Science Center (8/2019 - Current)
- Exploring seismicity of Southernmost Cascadia Subduction Zone Using Dense Seismic Network Including Ocean Bottom Seismometers
  - Institute for Geophysics and Planetary Physics, UC Santa Cruz, CA (1/2018 - 3/2021)
- Refining Slab Geometry & Geodynamic Models of the Tonga Subduction Zone
  - Scripps Institute of Oceanography, La Jolla, CA (7/2017-10/2017)

5 Presentations

- Using Active Source Seismology to Image a Fault Damage Zone as a Function of Depth, Distance, and Geology (poster)
  - Southern California Earthquake Center Annual Meeting
  - 9/2022 Palm Springs, CA

- Using Active Source Seismology to Image a Fault Damage Zone as a Function of Depth, Distance, and Geology (poster)
  - Gordon Research Conference: Rock Deformation
  - 8/2022 Lewiston, ME
- Using Active Source Seismology to Image a Fault Damage Zone as a Function of Depth, Distance, and Geology (talk)
  - Seismological Society of American Annual Meeting
  - 4/2022 Bellevue, WA
- Using Active Source Seismology to Image a Strike-Slip Fault Damage Zone as a Function of Depth, Distance, and Geology (talk)
  - American Geophysical Union Conference
  - 12/2021 New Orleans, LA
- Using Active Source Seismology to Image a Strike-Slip Fault Damage Zone as a Function of Depth, Distance, and Geology (talk)
  - 3rd Cargese Earthquakes School
  - 10/2021 Corsica, France
- Using Active Source Seismology to Image a Strike-Slip Fault Damage Zone as a Function of Depth, Distance, and Geology (talk)
  - Southern California Earthquake Center Annual Meeting
  - 9/2021 Virtual Meeting
- Probing the Southern Cascadia Plate Interface with a Dense Amphibious Cascadia Initiative Seismic Array (talk)
  - GAGE-SAGE Community Science Workshop
  - 8/2021 Virtual Meeting
- Probing the Southern Cascadia Plate Interface with a Dense Amphibious Cascadia Initiative Seismic Array (talk)
  - Northern California Earthquake Hazards Workshop
  - 2/2021 Virtual Meeting

- Probing the Southern Cascadia Plate Interface with a Dense Amphibious Cascadia Initiative Seismic Array (talk)
  - American Geophysical Union Conference
  - 12/2020 Virtual Meeting
- Fault Damage Zones in 3D with Active-Source Seismic Data (poster)
  - American Geophysical Union Conference
  - 12/2019 San Francisco, CA
- Fault Damage Zones in 3D with Active-Source Seismic Data (poster)
  - Southern California Earthquake Center Annual Meeting
  - 9/2019 Palm Springs, CA
- Using the Cascadia Initiative to Investigate Seismicity and Possible Shallow Slow Slip Along the Southernmost Section of the Cascadia Subduction Zone. (poster)
  - American Geophysical Union Conference
  - 12/2018 Washington D.C.
- Refining the Tonga Slab Geometry Using Slab Phases of Seismic Waves
  - American Geophysical Union Conference (poster)
  - 12/2017 New Orleans, LA

6 Honors and Awards

- 2021 Zhen and Ren Wu Memorial Fund
- 2020 Eli Silver EPS Opportunities Fund
- 2017 IRIS Summer Internship
- 2016 Henry A Martin Scholarship

7 Conference convenership

- 2022 Seismological Society of America Meeting, Convener *Fault Damage Zones: What We Know and Do Not (1 & 2)*

8 Field Experience

- 2021 RV Sproul
  - Data collected: sparker MCS, chirp
  - Location: Offshore southern California, San Pedro shelf and slope
- 2019 RV Bold Horizon
  - Data collected: sparker MCS, chirp, piston Core
  - Location: Offshore northern California & Oregon
- 2018 Blue Mountain Geothermal
  - Data collected: well water level and temperature
  - Location: Winnemucca, NV
- 2017 IRIS pascal
  - Data collected: passive seismometer installation
  - Location: Socorro, NM

9 Teaching Experience

- Teaching Assistant, Geophysical Data Science (9/2021 - 12/2021)
  - University of California, Santa Cruz, CA
- Teaching Assistant, Environmental Geology (3/2020 - 7/2020)
  - University of California, Santa Cruz, CA
- Teaching assistant, Geology of National Parks (4/2019 - 7/2019)
  - University of California, Santa Cruz, CA
- Teaching assistant, Environmental Geology (4/2020 - 7/2020)
  - University of California, Santa Cruz, CA
- Student assistant, California Historical Geology (1/2016 – 7/2016)
  - Cabrillo College, Aptos, CA

10 Relevant Coursework

Earthquake Physics, Crustal Deformation, Order of Magnitude Estimation, The Dynamic Earth, Practical Geophysics, Seismotectonics, Machine Learning for Geophysicists, Topics in Geophysics, Scientific Computing, Foundations in Applied Mathematics, Structural Geology, Data Analysis in Earth Science, Foundations in Earth Science.