

Liam D. Toney

Email: ldtoney@alaska.edu

Phone: +1 360 305 8188

Web: liam.earth

EDUCATION

University of Alaska Fairbanks (UAF) | *Fairbanks, AK* | May 2023 (expected)

Ph.D. in Geophysics

Pomona College | *Claremont, CA* | December 2017

B.A. *cum laude* in Physics; minor in Geology

School for International Training | *Jaipur, Rajasthan, India* | August 2015–December 2015

Sustainable Development and Social Change program

RESEARCH EXPERIENCE

UAF Geophysical Institute | *Fairbanks, AK* | August 2018–present

Graduate Research Assistant

GNS Science | *Waikato, New Zealand* | April 2018–May 2018

Ashfall Geovisualization Developer

Sandia National Laboratories (SNL) | *Albuquerque, NM* | June 2017–August 2017

R&D Intern, Geophysics Department

Incorporated Research Institutions for Seismology (IRIS) | *Albuquerque, NM* | June 2016–August 2016

Summer REU Intern (placement at SNL as part of the IRIS Undergraduate Internship Program)

TEACHING EXPERIENCE

Breakthrough Collaborative | *Birmingham, AL* | June 2015–July 2015

Teaching Fellow

Pomona College | *Claremont, CA* | January 2014–May 2016

Teaching Assistant, Physics Department

PUBLICATIONS

Toney, L. D., Fee, D., Allstadt, K. E., Haney, M., & Matoza, R. S. (in review). Reconstructing the dynamics of the highly-similar May 2016 and June 2019 Iliamna Volcano, Alaska ice–rock avalanches from seismoacoustic data. *Earth Surface Dynamics Discussions*. <https://doi.org/10.5194/esurf-2020-47>

Toney, L. D., Abbott, R. E., Preston, L. A., Tang, D. G., Finlay, T., & Phillips-Alonge, K. (2019). Joint body- and surface-wave tomography of Yucca Flat, Nevada using a novel seismic source. *Bulletin of the Seismological Society of America*, 109(5), 1922–1934. <https://doi.org/10.1785/0120180322>

CONFERENCE PRESENTATIONS

Fee, D., **Toney, L. D.**, Matoza, R. S., Sanderson, R. W., Haney, M., Lyons, J. J., Iezzi, A. M., Kim, K., De Angelis, S., Diaz Moreno, A., & Jolly, A. D. (2019). A framework for improved infrasound back-projection on local and regional scales. Abstract S41E-0577 presented at *2019 AGU Fall Meeting*, San Francisco, CA, 9–13 Dec. (poster)

Toney, L. D., Fee, D., Allstadt, K., Haney, M., & Matoza, R. S. (2019). A tale of two very large avalanches: Probing the limits of seismoacoustic avalanche characterization on Iliamna volcano, Alaska. Abstract S23D-0658 presented at *2019 AGU Fall Meeting*, San Francisco, CA, 9–13 Dec. (poster)

Toney, L. D., Fee, D., Haney, M., Matoza, R. S., & Allstadt, K. (2019). Seismoacoustic insights from the May 22nd, 2016 Iliamna volcano rock and ice avalanche. Abstract 47 presented at *2019 SSA Annual Meeting*, Seattle, WA, 23–26 April. (poster)

Toney, L. D., Abbott, R. E., & Preston, L. A. (2017). Joint body-and surface-wave tomography of Yucca Flat, Nevada. Abstract S33A-0854 presented at *2017 AGU Fall Meeting*, New Orleans, LA, 11–15 Dec. (poster)

Toney, L. D., Abbott, R. A., Knox, H. A., Preston, L. A., & Hoots, C. R. (2016). Surface-wave tomography of Yucca Flat, Nevada. Abstract S51A-2744 presented at *2016 AGU Fall Meeting*, San Francisco, CA, 12–16 Dec. (poster)

HONORS & AWARDS

Distinction in the Senior Exercise

Physics Department, Pomona College

Pomona College Scholar

Pomona College

Tileston Physics Prize

Physics Department, Pomona College

PROFESSIONAL AFFILIATIONS

American Geophysical Union | 2016–present

Seismological Society of America | 2019–present

SERVICE

Referee

Surveys in Geophysics

Vice President | May 2020–present

Geophysical Institute Graduate Student Association (GIGSA)

Treasurer | April 2019–May 2020

GIGSA

TECHNICAL SKILLS

Coding

- Python
- MATLAB
- R
- Shell scripting
- GMT
- GDAL
- L^AT_EX
- Git
- HTML + CSS

Software

- ArcGIS
- Adobe Illustrator + InDesign + Photoshop + Lightroom
- GitHub
- macOS
- Windows

FIELDWORK

Date	Duration	Activity	Location	Role
July–August 2019	4 weeks	Seismic and infrasound station installation/maintenance	Adak/Atka/Chuginadak/Umnak islands, Alaska, USA	Assistant
April 2018	1 day	Volcanic gas flux measurement	White Island, New Zealand	Assistant
April 2018	2 days	Microgravity survey	Mount Tongariro, New Zealand	Assistant
February 2018	1 week	Seismic deployment	Southland, New Zealand	Assistant
July 2016	1 week	Active-source seismic survey	Nevada National Security Site, Nevada, USA	Assistant