

Valerie Sahakian

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Personal Information

Full name, Valerie Jean Sahakian.
Date of Birth, September 8th, 1990.
Citizenship, United States of America.

Education

- 2009–2015 **Ph.D.**, Scripps Institution of Oceanography, UCSD, La Jolla, CA.
Geophysics
- 2009–2010 **M.S.**, Scripps Institution of Oceanography, UCSD, La Jolla, CA.
Geophysics
- 2007–2009 **B.S.**, University of Rhode Island, Kingston, RI.
Major: Pure Mathematics, Minor: Geosciences

Positions and Experience

- 2018–present **Assistant Professor**, University of Oregon, Eugene OR.
Department of Earth Sciences
- 2016–2018 **Mendenhall Postdoctoral Fellow**, U.S. Geological Survey, Menlo Park CA.
- 2015–2016 **Postdoctoral Researcher**, Scripps Institution of Oceanography, La Jolla CA.
Earth Science
- 2009–2015 **Graduate Student Researcher**, Scripps Institution of Oceanography, La Jolla CA.
Geophysics
- Awards**
- 2013–2014 **Scripps Classroom Connection, NSF GK12 Fellow.**
- 2010–2012 **NASA Earth and Space Science Fellowship.**

Publications

* Indicates student advisee, ** Indicates co-first and corresponding author.
Underlined DOIs provide paper link.

- in prep. Chatterjee, A.*, **V.J. Sahakian**, D. Melgar, A. Ganas, **in prep.**. *Source and Path Attenuation Properties in the Hellenic Arc*, Bull. Seis. Soc. of Am.
- in prep. Nye, T.*, **V.J. Sahakian**, A.S. Baltay., **in prep.**. *San Francisco Bay Area Site Characterization*, Bull. Seis. Soc. of Am. *Pre-print available upon request.*

- in review Zhang H., D. Melgar, **V.J. Sahakian**, J. Searcy, T. Lin **in review**. *Learning source, path, and site effects: CNN-based Onsite Intensity Prediction for Earthquake Early Warning*, *Geophys. Journal Int.*
- in review Mayer, J., **V.J. Sahakian**, E. Hooft, R. Durairajan, **in review**. *Enhancing the Resilience of Internet Infrastructures to Earthquakes using ShakeNet*, *Natural Hazards*
- accepted Melgar, D., **V.J. Sahakian**, A.M. Thomas, **accepted**. *Deep Coseismic Slip in the Cascadia Megathrust can be Consistent with Coastal Subsidence*, *Geophys. Res. Let.*
- in press **V.J. Sahakian**, B. Derosier, T. Rockwell, J. Stock, **in press**. *Shallow Distributed Faulting in the Imperial Valley*, *Geology*.
- 2022 E.A. Wirth**, **V.J. Sahakian****, L.M. Wallace, D. Melnick **2022**. *The occurrence and hazards of great subduction zone earthquakes*, *Nature Reviews Earth and Environment.*, doi: [10.1038/s43017-021-00245-w](https://doi.org/10.1038/s43017-021-00245-w) ****Co first- and corresponding authors**
- 2021 Goldberg, G.E., D. Melgar, G.P. Hayes, B.W. Crowell, **V.J. Sahakian**, **2021**. *A Ground-Motion Model for GNSS Peak Ground Displacement*, *Bull. Seis. Soc. of Am.*, **111**(5), 2393-2407, doi: <https://doi.org/10.1785/0120210042>
- 2021 J.Mayer, **V.J. Sahakian**, E. Hooft, D. Toomey, R. Durairajan **2021**. *On the Resilience of Internet Infrastructures in the Pacific Northwest to Earthquakes*, *Passive and Active Measurement Conference 2021*, **44**, doi:10.1007/978-3-030-72582-2_15, **Note:** Peer-reviewed manuscript.
- 2021 A.R. Klimasewski*, **V.J. Sahakian**, A.M. Thomas, **2021**. *Comparing performance of artificial neural networks with traditional ground-motion models for small-magnitude earthquakes in Southern California*, *Bull. Seis. Soc. of Am.*, **111**(3), 1577-1589, doi:10.1785/0120200200
- 2021 M.A.L. Walton, L. Staisch, T. Dura, J.K. Pearl, B. Sherrod, J. Gomberg, S. Engelhart, A. Tréhu, J. Watt, J. Perkins, R. Witter, N. Bartlow, C. Goldfinger, H. Kelsey, A. Morey, **V.J. Sahakian**, H. Tobin, K. Wang, R. Wells, E. Wirth, **2021**. *Toward an integrative geological and geophysical view of Cascadia subduction zone earthquakes*, *Annual Review of Earth and Planetary Sciences*, **49**, doi:10.1146/annurev-earth-071620-065605
- 2020 D.E. Goldberg, D. Melgar, **V.J. Sahakian**, A.M. Thomas, X. Xu, B.W. Crowell, J. Geng, **2020**. *Complex Rupture of an Immature Fault Zone: A Simultaneous Kinematic Model of the 2019 Ridgecrest, CA Earthquakes*, *Geophys. Res. Let.*, **47**(3), doi:10.1029/2019GL086382
- 2019 **V.J. Sahakian**, D. Melgar, M. Muzli, **2019**. *Weak Near-Field Behavior of a Tsunami Earthquake*, *Geophys. Res. Let.*, **46**, 9519–9528, doi:10/1029/2019GL083989
- 2019 A.R. Klimasewski*, **V.J. Sahakian**, A. Baltay, J. Boatwright, J.B. Fletcher, L.M. Baker, **2019**. *Full site spectra in Southern California from direct Brune-constrained inversion*, *Bull. Seis. Soc. of Am.*, **109**(5), 1878-1889, doi:10.1785/0120190037

- 2019 **V. J. Sahakian**, A. Baltay, T. Hanks, J. S. Buehler, F.L. Vernon, D. Kilb., N. Abrahamson, **2019**. *Ground-Motion Residuals, Path Effects, and Crustal Properties: A Pilot Study in Southern California*, *J. Geophys. Res., Solid Earth*, doi: [10.1029/2018JB016796](https://doi.org/10.1029/2018JB016796)
- 2018b **V. J. Sahakian**, D. Melgar, L. Quíntanar, L. Ramírez-Guzman, X. Pérez-Campos, A. Baltay, **2018**. *Ground Motions from the September 7th and 19th 2017 Tehuantepec and Puebla-Morelos, Mexico Earthquakes*, *Bull. of the Seis. Soc. of Am.*, **108**(6), 3300-3312, doi: [10.1785/0120180108](https://doi.org/10.1785/0120180108)
- 2018 M. Çelebi, **V. J. Sahakian**, D. Melgar, L. Quíntanar, **2018**. *The M7.1 September 19, 2017 Puebla-Mexico City Earthquake: Spectral Ratios Confirm Mexico City Zoning*, *Bull. of the Seis. Soc. of Am.*, **108**(6), 3289-3299, doi:[10.1785/0120180100](https://doi.org/10.1785/0120180100)
- 2018a **V.J. Sahakian**, A. Baltay, T. Hanks, J. Buehler, F.L. Vernon, D.Kilb, **2018**. *Decomposing leftovers: Event, path, and site residuals for a small magnitude ANZA region GMPE*, *Bull. of the Seis. Soc. of Am.*, **108**(5A), 2478-2492, doi:[10.1785/0120170376](https://doi.org/10.1785/0120170376)
- 2017 **V. Sahakian**, J. Bormann, N. Driscoll, A. Harding, G. Kent, S. Wesnousky, **2017**. *Seismic Constraints on the Architecture of the Newport Inglewood Rose Canyon Fault: Implications for the Length and Magnitude of Future Earthquake Ruptures*, *J. Geophys. Res. Solid Earth*, **122**, doi:[10.1002/2016JB013467](https://doi.org/10.1002/2016JB013467)
- 2016 **V. Sahakian**, A. Kell, A. Harding, N. Driscoll, G. Kent, **2016**. *Geophysical evidence for a San Andreas subparallel transtensional fault along the north eastern shore of the Salton Sea*, *Bull. Seis. Soc. Am.*, **106**(5), doi:[10.1785/0120150350](https://doi.org/10.1785/0120150350)
- 2014 E. Lindsey, **V. J. Sahakian**, Y. Fialko, Y. Bock, S. Barbot, T. Rockwell, **2014**. *Interseismic strain localization in the San Jacinto fault zone*, *Pure Appl. Geophys.* doi:[10.1007/s00024-013-0753-z](https://doi.org/10.1007/s00024-013-0753-z).

Grants and Awards

Grants: Pending / In prep.

- in prep. ~**\$400,000, NSF EAR**, *Constraining Wave Propagation and Ground-Motions in the Willamette Valley, Oregon*, Geophysics, **Lead PI**.
Planned Submission Winter 2022
- in prep. ~**\$15,000,000, NSF EAR**, *The Cascadia Regional Earthquake Science CENTER (CRESCENT)*, Centers for Innovation and Community Engagement in Solid Earth Geohazards, **Senior Personnel**.
Planned Submission Winter 2022

Grants: Awarded

- 2021-2022 **\$80,116 (\$38,031 to UO) USGS EHP**, *Using Cabled Seafloor Array Data to Explore Empirical Links between Seismic Generated Shaking and Sediment Mobilization: Collaborative Research with University of Oregon, Scripps Institution of Oceanography, and Oregon State University*, Pacific Northwest and Alaska, **Lead PI**.

- 2021 **4 days ship time, Oceangoing Research Vessel Program, A Two for One: Understanding Cascadia earthquakes and marine heatwaves from short sediment cores.**, Research Vessel Council, **Lead PI.**
- 2021-2024 **\$419,036, NASA ROSES, Three-Dimensional Kinematics and the Crustal Deformation of Tsunami Earthquakes**, Earth Surface and Interior, **Lead PI.**
- 2019-2020 **\$91,712, USGS EHP, Bay Area Ground-Motion Site Effects: Exploring Site Spectral Physical Parameters. Collaborative Research with the University of Oregon and USGS**, Northern California, **Sole PI.**
- 2018-2019 **\$25,000, SCEC, Imaging Fault Structures near the Imperial Fault in the All American Canal**, **Sole PI.**
- 2016-2018 **Mendenhall Postdoctoral Fellow.**
- 2013-2014 **Scripps Classroom Connection, NSF GK12 Fellow.**
- 2010-2012 **NASA Earth and Space Science Fellowship.**

Awards

- 2022 **Nominee, Martin Luther King Jr. Award**, For contributions to campus and community diversity, equity, and inclusion, University of Oregon.

Mentoring

- Postdoc **Oluwaseun Fadugba, 2021-present.**
- Ph.D. **Tara Nye, 2019 – present, Roey Shimony, 2020-present.**
UO
- M.S. **Alexis Klimasewski, 2018 – 2020, Avigyan Chatterjee, 2020 – 2021.**
UO
- Undergraduates **Alexis Klimasewski, 2017 IRIS, Elias King, 2019, SCEC SURE, Marcus Chaknova, 2021/2022, UO; Jack Sheehan, 2021, SCEC SOURCES; Keelan Parioissien-Arce, 2021, SCEC SOURCES; Michael Carlsen, ESPRIT, 2021; Andrew Sparks, 2022, UO.**
- Peer **Scripps Graduate Student Mentor, Scripps Institution of Oceanography, La Jolla, CA.**
Mentor junior graduate students, M.S. and Ph.D.

Teaching

- ERTH468/568 **2022, Introduction to Seismology**, University of Oregon.
- ERTH 201 **2021, Dynamic Planet Earth**, University of Oregon.
- ERTH 363 **2019,20,21, Computational Tools for Earth Sciences**, University of Oregon.
- ERTH 406 **2019, Field Camp: Volcanology and Geophysics**, University of Oregon, Newberry Volcano.
- ERTH 307 **2019,20, Introduction to Oceanography**, University of Oregon.
- Jun 2013-Jun 2014 **Scripps Classroom Connection GK12 Fellow.**
Digital Lesson Plans for one of two units are available at <http://earthref.org/SCC/lessons/2013/naturaldisasters/>

- Winter 2013 **Teaching Assistant, "Water"**, *University of California, San Diego*, La Jolla, CA.
2008–2009 **Supplemental Instruction Leader**, *Academic Enhancement Center*, University of Rhode Island, Kingston, RI.

Committees and Service

Institutional Service

- 2019 - **GEODES Diversity Committee**, *University of Oregon*.
present
2018 - **Earth Sciences Library Representative**, *University of Oregon*.
present
2021 **Recruitment Subcommittee**, *University of Oregon*.
2018 -2021 **Faculty Sponsor to IgDEAS**, *Inclusivity and gender Diversity in Earth and Atmospheric Science*, Eugene, OR.

Professional Service

- Mar 2021 - **Organizing Committee and Session Chair**, *AGU-SEG Joint Workshop on Convergent Margins*, Seattle, WA.
present
Jan 2020 - **Associate Editor**, *Seismological Research Letters*.
present
2019,20 **Panel Member**, *USGS EHP program*.
Sep 2019 **SCEC TAG Community Velocity Model**, Palm springs, CA.
2015 - **Reviewer**, *Bulletin of the Seismological Society of America*, *Seismological Research Letters*, *Journal of Geophysical Research*, *Journal of Seismology*, and internal USGS reviewer.
2016 - 2018 **USGS Earthquake Response Summary Event Coordinator**, *USGS Earthquake Science Center*, Menlo Park, CA.
2017 **USGS Earthquake Science Center Social/Coffee Hour Organizer**, *USGS Earthquake Science Center*, Menlo Park, CA.
2016 - 2017 **USGS Earthquake Science Center Seminar Organizer**, *USGS Earthquake Science Center*, Menlo Park, CA.
2013 – 2015 **Educational Policy Committee Student Representative**, *Scripps Institution of Oceanography*, La Jolla, CA.
2014 **Scripps Student Symposium (S³) - Student Organizer and Founder**, *Scripps Institution of Oceanography*, La Jolla, CA, Website: sss.ucsd.edu.
2010 - 2012 **Geophysics Student Representative**, *Scripps Institution of Oceanography*, La Jolla, CA.

Outreach

- Oct. 2021 **1st Annual Community Healthcare Emergency Preparedness Academy**, *Keynote Speaker: Seismic Hazard in San Diego*, 21 Oct. 2021.
Summer 2021 **Warner Brothers EarthStorm Documentary**, *Scientist & Character for Cascadia Earthquake Hazards*.

- Jul. 2021 **UO SAIL presentation**, *Seismology*, 28 Jul 2021.
- Dec. 2020 **SSA**, *SSA Connects Mentor: Abstracts*, 15 Dec 2020.
- Aug. 2020 **Infragard Oregon**, *Webinar on earthquake hazards and risks in the PNW*, 11 Aug 2020.
- Jul. 2020 **UO SAIL presentation**, *Short video on Seismology*, 29 Jul 2020.
- Jul. 2020 **UO Freshman IntroDUCKtion**, *Freshman seminar*, shorturl.at/vDGH5, 23 Jul 2020.
- May 2020 **OMSI Science Pub**, *Virtual*, shorturl.at/mxN59, 11 May 2020.
- Oct. 2019 **Infragard San Diego**, *Keynote Speaker*, Infragard San Diego Earthquake Symposium, 9 Oct. 2019.
- Oct 2018 **ShakeOut Briefing**, *Vivian Olum Daycare*, University of Oregon, Presentation to staff of Vivian Olum daycare about earthquake safety and best practices.
- 2016 & 2017 **AAUW Grace Hopper Girl's STEM camp career night panelist**, *Stanford University*, Palo Alto, CA.
Serve in a question and answer session for career night, to encourage and support middle school girls in pursuing a STEM field career
- 2014 **Scripps Student Symposium (S³) - Student Organizer and Founder**, *Scripps Institution of Oceanography*, La Jolla, CA, Website: sss.ucsd.edu.
- May 30 2014 **Guest Speaker, NASA night**, *Vintage Magnet Elementary School*, Los Angeles, CA.

Fieldwork

- Sep 2021 **OC2109A**, *Scientist*, Oregon lower trench slope basins, R/V Oceanus.
5 days, Shallow sediment cores
- Aug 2021 **OC2108B PacHEAT Research Cruise**, *Chief Scientist*, Oregon lower trench slope basins, R/V Oceanus.
Collecting sediment cores for a pilot study on shaking and slope failure from state-funded ship time.
- Jul 2020 **Cascadia HOPS coring**, Northern Oregon and Washington margin, R/V Oceanus.
Collecting sediment cores for a pilot study on shaking and slope failure
- Jan 2020 **San Clemente Island Survey**, *Collaborate and co-mentor Scripps Institution of Oceanography Ph.D. on active-source seismic data of offshore faults*, Offshore San Clemente Island.
- Mar 2016 & 2019 **Imperial Fault Survey**, *Funding granted in October 2014 from the SIO Graduate Office and 2018 from SCEC to conduct the investigation*, Imperial Valley, Imperial County, California.
Project PI. Conducted in March 2016 & 2019: Pilot study for collection of CHIRP data collection in the All American Canal by Calexico, to image and better constrain architecture and slip rate on the Imperial Fault system
- Sep 2017 **UNOLS Training cruise**, Early-career scientist marine seismic training cruise, R/V Roger Revelle.
Planning, organization, collection, processing, and interpretation of cruises for marine active-source seismic reflection data

- Jan 2016 **SONGS Coring Survey**, Inner Continental Borderlands, R/V Thomas G. Thompson.
Collection of Gravity and Piston cores to constrain information regarding fault slip rates, sedimentation rates, and potential connections between gravity flows and seismic events
- Aug 2013 **SONGS 2D MCS Survey**, Offshore San Diego County, R/V New Horizon.
Collection of 2D MCS Data to study the structure and potential hazards of faults offshore San Diego
- Oct 2013 **SONGS 3D MCS Survey**, Offshore San Onofre, R/V New Horizon.
Collection of 3D P-Cable MCS Data to observe the Newport-Inglewood Fault and San Mateo/Carlsbad trend
- 2011–present **CHIRP, Multibeam Data Collection**, Offshore San Diego (CA), San Diego Bay (CA), Laguna Beach and Dana Point (CA), Walker Lake (NV).
- 2010–present **Permanent and Temporary Seismic Station Installations, Anza network**, Southern California (San Jacinto Fault), Under PI Frank Vernon.
- 2009–present **GPS Campaigns**, Southern California, Northwestern Mexico (Laguna Salada).

Presentations

Invited Presentations

- Feb. 2021 **Northern California Seismic Hazards Workshop**, *Site response in the Bay Area*, 4 Feb. 2021.
- Oct. 2020 **SDSU Geological Sciences**, *Department Seminar*, 21 Oct. 2020.
- Mar. 2020 **Burt Slemmons Lecturer**, *University of Nevada, Reno*, 7 Mar. 2020.
- Feb. 2020 **Geophysics Heiland Lecture**, *Colorado School of Mines*, 12 Feb 2020.
- Oct. 2019 **Powell Center**, *Cascadia Rupture & Radiation*, Summary on Cascadia Empirical Ground-Motion Models, 22 Oct. 2019.
- Oct. 2019 **Scripps Institution of Oceanography**, Geophysics Seminar, 11 Oct. 2019.
- Sep. 2019 **USGS Mountain View**, Earthquake Science Center Seminar, 18 Sep. 2019.
- Sep. 2018 **Wuhan University**, Seismogeodesy Workshop, 9 Sep. 2018.
- Apr. 2018 **USGS Golden**, NEIC weekly Seminar, 28 Apr. 2018.
- Mar. 2018 **SJSU**, Geology Club Seminar, 5 Mar. 2018.
- Oct 2017 **UC Berkeley**, Berkeley Seismo Lab Seminar, 24 Oct. 2017.
- Jul 2017 **USGS Menlo Park**, Two seminars for Saudi Geological Survey Training Course, 26 Jul./2 Aug. 2017.
- Apr 2017 **Stanford University**, Seismology seminar, 10 Apr. 2017.
- Mar 2017 **University of Oregon**, Earth Sciences seminar, 13 Mar. 2017.
- Mar 2017 **University of Texas at El Paso**, Geophysics seminar, 1 Mar. 2017.
- Feb 2017 **University of Hawaii**, SOEST seminar, 22 Feb. 2017.
- Feb 2017 **Lamont Doherty Earth Observatory**, MG&G/S&T seminar, 15 Feb. 2017.
- Oct 2016 **USGS Menlo Park**, Shaking, Damage, and Failure meeting, 11 Oct. 2016.
- Aug 2016 **USGS Menlo Park**, Earthquake Science Center Seminar Series, 24 Aug. 2016.

Selected Talks and Posters

V.J. Sahakian, B. Derosier, T. Rockwell (2021), *Shallow Deformation Features of the Imperial and Michoacán Fault Systems, Imperial Valley*, Oral, 2021 SSA Annual Meeting, Virtual 19-22 April.

V.J. Sahakian, B. Derosier, T. Rockwell (2021), *Shallow Deformation Features of the Imperial and Michoacán Fault Systems, Imperial Valley*, Oral, 2020 Unión Geofísica Mexicana Annual Meeting, Virtual 2-6 November.

V.J. Sahakian, D. Melgar, M. Muzli (2021), *Shallow Deformation Features of the Imperial and Michoacán Fault Systems, Imperial Valley*, Oral, 2021 SSA Annual Meeting, Virtual 19-22 April.

V.J. Sahakian, D. Melgar, M. Muzli (2019), *Ground-Motions from Tsunami Earthquakes: An Example from Indonesia and Impacts on Hazard and Warning*, Oral, 2019 SSA Annual Meeting, Seattle, WA, 23-26 April.

A. Klimasewski, V.J. Sahakian, A. Baltay, J. Boatwright, J. Fletcher, L. Baker (2018), *Full site-spectra from direct Brune-constrained inversion*, Talk S54B-08, 2018 Fall Meeting, AGU, Washington, DC 10-14 December.

V.J. Sahakian, D. Melgar, L. Ramirez-Guzman, L. Quintanar, X. Perez-Campos, A. Baltay (2018), *Analysis of the Ground-Motions of the September 7th and 19th 2017 Tehuantepec and Puebla-Morelos Earthquakes*, Talk , 2018 Fall Meeting AGU, Washington, DC 10-14 December.

V. Sahakian, A. Baltay, T. Hanks, J. Buehler, D. Kilb, F. Vernon (2017), *Path and site effects in GMPEs: Incorporating crustal physical properties for region-specific ground motion estimation using small magnitude data from Southern California (2017)*, Talk S51F-05, AGU Fall Meeting 2017, 11 - 15 December.

V. Sahakian, A. Baltay, T. Hanks, J. Buehler, D. Kilb, F. Vernon (2017), *Path and site effects in GMPEs: Incorporating crustal physical properties for region-specific ground motion estimation using small magnitude data from Southern California (2017)*, Poster 084, SCEC Annual Meeting 2017, 10 - 13 September.

V. Sahakian, A. Baltay, T. Hanks, J. Buehler, D. Kilb, F. Vernon (2017), *Investigating Physical Explanations for Path Effects to Reduce Uncertainty in GMPEs (2017)*, Poster, PSHA Workshop, 5 - 7 September.

V. Sahakian, A. Baltay, T. Hanks, J. Buehler, D. Kilb, F. Vernon (2017), *Investigating Physical Explanations for Path Effects to Reduce Uncertainty in Ground Motion Prediction Equations (2017)*, Talk SSS09-05, JpGU-AGU Joint Meeting, Chiba, Japan, 20 - 25 May.

V. Sahakian, A. Baltay, T. Hanks, J. Buehler, D. Kilb, F. Vernon (2017), *Investigating Physical Explanations for Path Effects to Reduce Uncertainty in Ground Motion Prediction Equations*, Oral, 2017 Seismological Society of America Annual Meeting, Denver, CO, 18 - 20 Apr.

- V. Sahakian, A. Baltay, T. Hanks, F. Vernon, J. Buehler, D. Kilb (2016)**, *Reducing Uncertainty in GMPEs Through Physical Explanations of the Path Term*, Abstract S31C-2793 presented at the 2016 Fall Meeting, AGU, San Francisco, Calif., 12 - 16 Dec..
- V. Sahakian, A. Baltay, T. Hanks (2016)**, *Reducing Uncertainty in Ground Motion Prediction Equations by Understanding Path Effects*, Oral and Poster presented at the USGS Postdoctoral Colloquium, Menlo Park, Calif., 23 Sep.
- V. Sahakian, A. Baltay, T. Hanks (2016)**, *Reducing Uncertainty in Ground Motion Prediction Equations by Understanding Path Effects*, Poster 175 presented at 2016 SCEC Annual Meeting, Palm Springs, Calif., 11-14 Sep.
- V. Sahakian, J. Bormann, N. Driscoll, A. Harding, G. Kent, S. Wesnousky (2016)**, *Segmentation along the Newport-Inglewood Rose Canyon Fault Zone: Mapping and Implications for rupture propagation*, Oral, 2016 Seismological Society of America Annual Meeting, Reno, Nevada, 19-21 Apr.
- V. Sahakian, J. Bormann, N. Driscoll, A. Harding, G. Kent, S. Wesnousky (2014)**, *Segmentation in the Newport-Inglewood/Rose Canyon Fault Zone; Implications for Rupture Propagation*, Abstract T23C-2971 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
- V. Sahakian, J. Bormann, S. Klotsko, J. Holmes, N. Driscoll, A. Harding, G. Kent, S. Wesnousky (2015)**, *Imaging the Newport-Inglewood/Rose Canyon Fault Zone; Implications for Current Fault Models*, Oral, 2015 Seismological Society of America Annual Meeting, Pasadena, Calif., 21-23 Apr.
- V. Sahakian, J. Bormann, S. Klotsko, J. Holmes, N. Driscoll, A. Harding, G. Kent, S. Wesnousky (2014)**, *Structure of the Newport-Inglewood/Rose Canyon and Palos Verdes Fault Zones and Implications for Current Fault Models*, Abstract OS33A-1036 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.
- N. Driscoll, V. Sahakian, J. Bormann, S. Klotsko, J. Holmes, A. Harding, G. Kent, S. Wesnousky (2014)**, *New Geophysical constraints on the Rose Canyon/Newport-Inglewood and Palos Verdes Fault Zones*, Poster 249 presented at 2014 SCEC Annual Meeting, Palm Springs, Calif., 7-10 Sep.
- V. Sahakian, A. Kell, A. Harding, G. Kent, N. Driscoll (2014)**, *Geophysical Evidence for a Southwestward dipping Southern San Andreas Fault*, Poster 206 presented at 2014 SCEC Annual Meeting, Palm Springs, Calif., 7-10 Sep.
- V. Sahakian, J. Holmes, A. Kell, A. Harding, N. Driscoll, G. Kent (2013)**, *New constraints on the geometry and evolution of the Southern San Andreas Fault and Salton Pull-apart basin*, Abstract T11D-2481 presented at 2013 Fall Meeting, AGU, San Francisco, Calif., 9-13 Dec.
- V. Sahakian, J. Holmes, A. Kell, A. Harding, G. Kent, N. Driscoll (2013)**, *New constraints on the geometry and evolution of the Southern San Andreas Fault and Salton Pull-apart basin*, Poster 098 presented at 2013 SCEC Annual Meeting, Palm Springs, Calif., 8-11 Sep.

V. Sahakian, A. Kell, A. Harding, G. Kent, N. Driscoll (2012), *Imaging the upper crustal velocity structure in the northern Salton Sea: Results from the Salton Sea Imaging Project's (SSIP) marine refraction experiment*, Poster 277 presented at 2012 SCEC Annual Meeting, Palm Springs, Calif., 9-12 Sep.

V. Sahakian, Y.Fialko, Y.Bock, T.Rockwell (2011), *Space geodetic investigation of interseismic deformation due to the San Jacinto Fault near Anza, CA*, Abstract T43I-05 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.

Workshops

- Oct 2019 **USGS Powell Center, Cascadia Seismic Hazards**, Fort Collins, CO.
- Oct 2019 **Megathrust Modeling Collaboratory RCN, P**, Eugene, OR.
- Aug 2019 **ODOT GeoBrainstorm, Proposal Planning**, Salem, OR.
- Mar 2019 **M9 Stakeholders Meeting**, Seattle, WA.
- Mar 2018 **USGS NSHM, National Seismic Hazard Map Planning Meeting**, Newark, CA.
- Sep 2017 **UNOLS Training cruise, UNOLS Early-career scientist marine seismic training cruise, UO Marine Facility, 2017**, Newport, OR.
- Nov 2017 **2017 Annual COSMOS Meeting**, "The evolving process of determining site-specific design ground motions in areas of high seismicity", Consortium of Organizations for Strong Motion Observation Systems Annual Meeting, 2017, Burlingame, CA.
- Sep 2017 **PSHA Workshop, Future directions for probabilistic seismic hazard assessment at a local, national, and transnational scale**, Lenzburg, CH.
- Feb 2017 **Induced Seismicity Ground Motion Workshop, Induced seismicity GMPEs and stress drops**, Menlo Park, CA.
- Nov 2016 **2016 Annual COSMOS Meeting**, "Moving Towards Site-Specific Ground-Motion Hazard", Consortium of Organizations for Strong Motion Observation Systems Annual Meeting, 2016, Burlingame, CA.
- Sep 2016 **2016 SCEC-ERI-DPRI International Summer School on Earthquake Science, Large crustal earthquakes: fault geometry, dynamic rupture, and strong ground motion**, Lake Arrowhead, CA.
- May 2015 **2015 ENAM Seismic Refraction Processing Workshop**, University of Texas in Austin, Austin, TX.
- Sep/Oct 2014 **2014 SCEC-ERI Summer School for Earthquake Science, Wave and Rupture Propagation with Realistic Velocity Structures**, Oxnard, CA.
- Aug 2014 **Lidar One week Short Course (Professor Michael Olsen)**, Oregon State University, Corvallis, OR.
- May 2014 **CARIS HIPS and SIPS Training Workshop**, San Diego State University, San Diego, CA.
- Feb 2014 **Friends of the Pleistocene Fieldtrip, Laguna Salada, Mexico**, Surface Ruptures of the 2010 M7.2 El Mayor-Cucapah and 1892 M7.1 Laguna Salada Earthquakes.

- Jan 2014 **64th UNB-OMG/UNH-CCOM Multibeam Sonar Training Course**, *Westin New Orleans Canal Place*, New Orleans, LA.
- Jan 2014 **Kingdom Suite Seismic Interpretation Course**, *IHS Kingdom*, Houston, TX.
- May 2013 **Pan-American Advanced Studies Institute (PASI) - Magma-Tectonic Interactions in Central America**, *Leon, Nicaragua*.
- Sep 2012 **Friends of the Pleistocene Fieldtrip**, *Lake Tahoe, NV*, Tectonics and geology of the Walker Lane and Lake Tahoe region.
- Jun 2012 **CIG Workshop on Crustal Deformation Modeling**, *Colorado School of Mines*, Golden, CO.
- Jul 2011 **Informal Course: Theory and Applications of InSAR**, *Scripps Institution of Oceanography*, La Jolla, CA.
Informal course with David Sandwell and Rob Mellors - Theory and applications of InSAR, and use of GMTSAR

Certifications

- 2021 **Wilderness First Responder** *80 hours, Expires December 2023*
- 2021 **CPR & AED** *Expires December 2021*

Languages

- English **Native**
- French **Professional Working Proficiency**
- Spanish **Limited Working Proficiency**