CURRICULUM VITAE

Contact Information:

Name: Amir Salaree Office Address: Department of Earth and Environmental Sciences, 1100 N University Ave., University of Michigan Ann Arbor, MI, USA 48109-1005

Email: salaree@umich.edu Website: https://public.websites.umich.edu/~salaree ORCID iD: 0000-0001-8802-9622 YouTube: www.youtube.com/AmirSalaree Twitter: @amirsalaree

Research Interests:

- Earthquake source
- Tsunamis
- Seismo-Acoustics
- Earthquake-induced landslides
- Natural hazard analysis
- Data visualization theory

Current Affiliation:

2022 – present Research Fellow, Department of Earth and Environmental Sciences, University of Michigan, Ann Arbor, MI, USA (PI: Zack Spica)

Past Employment:

| Jan 2023 – Apr 2023 | Lecturer, Department of Earth and Environmental Sciences, University of Michigan, Ann Arbor, MI, USA |
|---------------------|--|
| 2019 - 2022 | Postdoctoral Researcher , Department of Earth and Environmental Sciences, University of Michigan, Ann Arbor, MI, USA (Advisor: Yihe Huang) |
| Education: | |
| 2019 | PhD in Seismology, Department of Earth and Planetary Sciences, Northwestern University, Evanston, IL, USA (Advisor: Emile A. Okal) |

| Dissertation Topics | | retical and Computational Contributions to the Modeling obal Tsunamis |
|---------------------|---------|--|
| 2014 | Departm | Seismology, ent of Earth and Planetary Sciences, Northwestern University, n, IL, USA |
| 2011 | | Earthquake Seismology, of Geophysics, University of Tehran, Iran |
| MSc Dissertation ' | Горіс: | Study of Seismicity of Makran By Modeling the Earthquakes, Using Body-Wave Inversion |
| 2008 | | Solid States Physics, eent of Physics, University of Tehran, Iran |

Professional Memberships:

| 2020–present | Joint Task Force for SMART Cables $(\mathbf{ITU}/\mathbf{WMO}/\mathbf{IOC})$ |
|--------------|--|
| 2019–present | European Geophysical Union (\mathbf{EGU}) |
| 2016–present | Seismological Society of America (\mathbf{SSA}) |
| 2011–present | American Geophysical Union (\mathbf{AGU}) |
| 2010–present | Ocean Expert |
| 2018 - 2019 | National Association of Geoscience Teachers $({\bf NAGT})$ |
| 2013 - 2014 | European Association of Geoscientists and Engineers (\mathbf{EAGE}) |

Mentorship Experience:

| 2023–present | Yaolin Miao | University of Michigan |
|--------------|------------------|------------------------|
| 2022 - 2023 | Maryam Kamalpour | University of Tehran |

Journal Publications:

Manuscripts in Preparation:

Miao, Y., Spica, Z., <u>Salaree, A.</u>, Kiwamu, N., Yamada, T., & Shinohara, M., 2023. Earthquake detection with ocean-bottom Distributed Acoustic Sensing, *J Geophys Res: Solid Earth*, [in prep]

Salaree, A. & Huang, Y., 2023. Back-arc tsunami hazard in the Gulf of Mexico from $\overline{Oaxaca \text{ earthquakes}}$, AGU Advances, [to be submitted]

Kamalpour, M. & <u>Salaree</u>, A., 2023. Teleseismic measurements of earthquake source slowness as a measure of near-field ground motion: Seismic hazard in Iran, *B Seismol Soc Am*, [in prep]

Salaree, A. & Okal, E. A., 2023. The response of the Persian Gulf to tsunamis from the deep Indian Ocean earthquakes, *Pure Appl. Geophys.*, [in prep]

Salaree, A., 2023. Cumulative ray-tracing of finite tsunami sources, *Nat. Hazards*, [in prep]

Published Articles:

| 2 | 023 | Salaree, A., Spica, Z., & Huang, Y., 2023. Solving a seismic mystery with the audio from a diver's camera: A case of shallow water <i>T</i> -waves in the Persian Gulf, <i>Geophys. Res. Lett.</i> , 50 , e2023GL104544, doi: 10.1029/2023GL104544 |
|---|-----|---|
| | | Salaree, A. & Huang, Y., 2023. Excitation of back-arc tsunamis from megathrust ruptures: Theory and application to the Sea of Japan, J Geophys Res: Solid Earth, $128(2)$, e2022JB024750 |
| | | Salaree, A., Howe, B. M., Huang, Y., Weinstein, S. A., & Sakya, A. E., 2023. A numerical study of SMART Cables potential in marine hazard early warning for the Sumatra and Java regions, <i>Pure Appl. Geophys.</i> , 180 (5), 1717–1749, doi: 10.1007/s00024-022-03004-0 |
| 2 | 022 | Rowe, C. A., Howe, B. M., Fouch, M. J., Angove, M., Aucan, J., Barnes, C. R., Barros, J., Bailiff, N., Becker, N. C., Carrilho, F., Fry, B., Jamelot, A., Janiszewski, H., Kong, L. S. L., Lentz, S., Luther, D. S., Marinaro, G., Matias, L. M., Sakya, A. E., <u>Salaree, A.</u> , Thiele, T., Tilmann, F. J., von Hildebrandt-Andrade, C., Wallace, L., Weinstein, S. A., & Wilcock, W., 2022. SMART Cables observing the oceans and Earth, <i>Mar. Technol. Soc. J.</i> , 56 (5), 13–25 |
| | | Howe, B. M., Angove, M., Aucan, J., Barnes, C. R., Barros, J., Bayliff, N., Becker, N. C., Carrilho, F., Fouch, M., Fry, B., Jamelot, A., Janiszewski, H., Kong, L. S., Lentz, S., Luther, D. S., Marinaro, G., Matias, L. M., Rowe, C. A., Salaree, A., Sakya, A. E., Thiele, T., Tilmann, F. J., von Hillebrandt-Andrade, C., Wallace, L., Weinstein, S. A., & Wilcock, W., 2022. SMART subsea cables for observing the Earth and Ocean, mitigating environmental hazards, and supporting the blue economy, <i>Frontiers in Earth Science: Solid Earth Geophysics</i> , 9, doi: 10.3389/feart.2021.775544 |
| 2 | 021 | <u>Salaree, A.</u> , Huang, Y., Ramos, M., & Stein, S., 2021. Relative tsunami hazard from segments of Cascadia subduction zone for M_w 7.5-9.2 earthquakes, <i>Geophys. Res. Lett.</i> , 48 , e2021GL094174, doi: 10.1029/2021GL094174 |
| 2 | 020 | $\frac{\text{Salaree, A.}}{\text{coast from mega-earthquake sources in the Indian Ocean, Arab. J. Geosci., 13(20), 13p}$ |
| | | Salaree, A. & Okal, E. A., 2020b. Effects of bathymetry complexity on tsunami propagation: A spherical harmonics approach, <i>Geophys. J. Intl.</i> , 223 (1), 632–647 |

| 2018 | Salaree, A. & Okal, E. A., 2018. The "tsunami earthquake" of 13 April 1923 in Northern Kamchatka: Seismological and hydrodynamic investigations, <i>Pure Appl. Geophys.</i> , 175 (4), 1257–1285 |
|------|--|
| | Salaree, A., Mansouri, R., & Okal, E. A., 2018. The intriguing tsunami of 19 March 2017 at Bandar Dayyer, Iran: Field survey & simulations, <i>Nat. Hazards</i> , $90(3)$, 1277–1307 |
| 2017 | $\text{Salaree, A., Stein, S., Saloor, N., \& Elling, R., 2017. Turn your smartphone into a geophysics lab, Astron. Geophys., 58(6), 6.35–6.36$ |
| 2016 | Brooks, E. M., Diggory, M., Gomez, E., <u>Salaree, A.</u> , Schmid, M., Saloor, N., & Stein, S., 2016. Should Fermi have secured his water heater?, <i>Seismol. Res. Lett.</i> , 87 (2A), 387–394 |
| 2015 | Salaree, A. & Okal, E. A., 2015. Field survey and modelling of the Caspian Sea tsunami of 1990 June 20, <i>Geophys. J. Intl.</i> , 201 (2), 621–639 |

Dissertations:

| 2019 | Salaree, A., 2019. Theoretical and computational contributions to the modeling of global tsunamis, <i>PhD Dissertation, Northwestern University</i> , 359p |
|------|--|
| 2011 | Salaree, A., 2011. Study of the seismicity of Makran by modeling the earthquakes using body-wave inversion, <i>Msc Dissertation, University of Tehran</i> , 232p |

Talks & Presentations:

$Invited \ Talks$

| 2023 | Salaree, A., 2023. Tsunamis in the Persian Gulf: Sources and hazard, Department of <i>Geophysics, College of Nano and Bio Science & Technology, Persian Gulf University,</i> <i>Bushehr</i> , [invited] |
|------|---|
| 2022 | $\frac{\text{Salaree, A., 2022. Mix \& Match: Tsunamis and other natural hazards, Geology Department, Washington & Lee University, Lexington, VA, [invited]}{}$ |
| 2021 | Okal, E. A. & <u>Salaree</u> , A., 2021. Evaluation of far-field tsunami risk from sources in the Indian Ocean, and preliminary report on the 2021 South Sandwich Islands earthquake and tsunami, <i>Far-field and Near-shore tsunamis on the South African</i> <i>coastline</i> , CGS, National Science Councils, South Africa, [invited] |
| | Salaree, A., 2021a. Tsunami hazard & the Indian Ocean: What have we learned? - What can we do?, Department of Earth Sciences, Royal Holloway, University of London, [invited] |
| | Salaree, A., 2021b. Waves of the far side: Tunamis in the Gulf of Mexico from Pacific earthquakes, EPSS Colloquium, Department of Earth, Planetary & Space Sciences, University of California, Los Angeles (UCLA), [invited] |

| | $\frac{\text{Salaree, A., 2021c. The curious case of unexpected tsunamis: A quest in nonlinearity,}}{UK International Geophysics & Tectonics Seminar, [invited]}$ |
|------|--|
| 2020 | Salaree, A., Huang, Y., Ramos, M., & Stein, S., 2020. Modeling future Cascadia tsunamis: Don't prepare only for the rarest and biggest one, <i>AGU Fall Meeting</i> , [invited] |
| | $\frac{\text{Salaree, A., 2020a. Tsunami hazard from Cascadia earthquakes: Fold for ace-in-the-hole?, GYPSUM Seminar Series, Iowa State University, [invited]}{}$ |
| | Salaree, A., 2020b. Theoretical and computational contributions to the modeling of global tsunamis, <i>Smith Lecture, University of Michigan, Ann Arbor, MI</i> , [invited] |
| 2019 | Salaree, A. & Okal, E. A., 2019. Response of a basin to a tsunami incident through a small aperture: Application to the Strait of Hormuz, <i>Expert meeting for establishment of a regional working group and working process between NWIO Countries on risk knowledge, Muscat, Oman</i> , [invited] |

Presentations

| 2024 | Salaree, A., Miao, Y., Spica, Z., Nishida, K., Yamada, T., & Shinohara, M., 2024. Spatio-temporal fidelity of DAS arrays to compression seismic signals: Impacts on real-time source estimates, SSA Annual Meeting, Anchorage, AK, [submitted] |
|------|--|
| 2023 | Salaree, A., Spica, Z., Miao, Y., Nishida, K., Yamada, T., & Shinohara, M., 2023. Performance of DAS arrays in documenting compression/dilation seismic signals, <i>AGU Fall Meeting, San Francisco, CA</i> |
| | Salaree, A., 2023. Non-uniqueness dilemma in the Kahramanmaras tsunami source solutions at different frequencies: Hint for excitation by transient Rayleigh waves from a strike-slip rupture, SSA Annual Meeting, San Juan, Puerto Rico |
| | Salaree, A. & Spica, Z., 2023. Exploring the potential of low-cost hydrophones in constraining subsea faults and seismic early warning for the San Francisco Bay region, <i>SSA Annual Meeting, San Juan, Puerto Rico</i> |
| | Kamalpour, M. & <u>Salaree</u> , A., 2023. Revisiting seismic hazard in Iran: Role of stress drop in Peak Ground Acceleration in a zone of immature faulting, <i>SSA Annual Meeting, San Juan, Puerto Rico</i> |
| | Saloor, N. & <u>Salaree, A.</u> , 2023. Source stress drop for continental collision zones: Deviation from textbook earthquake models, <i>SSA Annual Meeting, San Juan, Puerto Rico</i> |
| 2022 | Salaree, A., Spica, Z., Huang, Y., & Naderi-Beni, A., 2022. Application of divers' underwater videos in hazard warning: The 2022 earthquake sequence in the Persian Gulf region, <i>AGU Fall Meeting, Chicago, IL</i> |
| | Rowe, C. A., Howe, B. M., Angove, M., Aucan, J., Barnes, C. R., Barros, J., Bayliff, N., Becker, N. C., Carrilho, F., Fouch, M. J., Fry, B., Grossman, J., Janiszewski, H. A., Jamelot, A., Kong, L. S. L., Luther, D. S., Lenz, S. T., Marinaro, G., Marias, L. M. M., Salaree, A., Sakya, A. E., Thiele, T., Tilmann, F. J., von Hillebrandt-Andrade, C., Wallace, L. W., Weinstein, S., & Wilcock, W. S. D., 2022. An update on the SMART Cables initiative for observing the Ocean and Earth, <i>AGU Fall Meeting, Chicago, IL</i> |

Okal, E. A. & Salaree, A., 2022. World-wide simulation of ocean-coupled air waves generated by the 2022 volcanic explosion in Tonga, SSA Annual Meeting, Bellevue, WA

2021 <u>Salaree, A. & Huang, Y., 2021. New metric for performance of DART arrays: Can we improve tsunami monitoring in Cascadia?</u>, *AGU Fall Meeting*

Ghobadi-Far, K., Han, S.-C., McCullough, C., Wiese, D. N., Ray, R., Sauber, J., Werth, S. W., Shirzaei, M., Shihora, L., Dobslaw, H., Razeghi, M., Salaree, A., & Okal, E. A., 2021. Observing transient, rapid mass changes in the Earth system with GRACE Follow-On laser ranging measurements, *AGU Fall Meeting*

Howe, B. M., Aucan, J., Barros, J., Bayliff, N., Fouch, M., Kong, L., Lentz, S., Marinaro, G., Matias, L., Panayotou, K., Sakya, A., Salaree, A., von Hillebrandt-Andrade, C., Wallace, L., & Weinstein, S., 2021. SMART Cables observing the oceans and Earth, *Global Oceans, San Diego, CA*

Salaree, A., Howe, B. M., & Huang, Y., 2021. Contribution of SMART Cables to earthquake and tsunami early warning in the Sumatra and Java regions, *SSA Annual Meeting*

Salaree, A. & Huang, Y., 2021. Back-arc tsunami hazard in the Gulf of Mexico from Oaxaca earthquakes, SSA Annual Meeting

Salaree, A., Huang, Y., Ramos, M., & Stein, S., 2021. Most hazardous segments of the Cascadia rupture: Challenging the worst-case scenario, *SSA Annual Meeting*

2020 Saloor, N., <u>Salaree, A.</u>, & Huang, Y., 2020. Back-arc tsunami hazard in the Gulf of Mexico from Oaxaca earthquakes: Lessons from past events, *AGU Fall Meeting*

> Salaree, A., Huang, Y., & Ramos, M., 2020. Tsunami hazard in Cascadia from M7–9 earthquakes: Most hazardous segments of the rupture, AGU Fall Meeting

> Salaree, A. & Okal, E. A., 2020. Frequency response of the Persian Gulf to Makran tsunamis, 19th Iranian Geophysical Conference, Iranian Geophysical Society, Tehran, [submitted]

Salaree, A., Huang, Y., & Ramos, M., 2020. Tsunami hazard in Cascadia from M = 7-9 earthquake ruptures, EGU General Assembly, Vienna

Salaree, A., 2020. Cascadia tsunamis: Segmented earthquake ruptures, GTS Seminar, University of Michigan, Ann Arbor, MI

2019 $\frac{\text{Salaree, A., 2019. Cascadia tsunami scenarios: An overview, University of Michigan}{\overline{\mathscr{C} Michigan State University Solid Earth Mini-Workshop, East Lansing}$

Ramos, M., <u>Salaree, A.</u>, Li, D., Ulrich, T., Huang, Y., Gabriel, A.-A., Thomas, A., & Denolle, M., 2019. 2-D and 3-D dynamic earthquake simulations for the Cscadia megathrust, *Megathrust Modeling Workshop, Eugene, Oregon*

Saloor, N., Okal, E. A., & Salaree, A., 2019. The origin of Gutenberg & Richter m_b formula: An update, AGU Fall Meeting, San Francisco, USA

2017

| Okal, E. A., de Beer, C., Salaree, A., Visser, J., & Mansouri, R., 2019. Dwarskersbos, |
|--|
| South Africa, and Bandar Dayyer, Iran: Surveys and simulations of two tsunamis of |
| meteorological origin, The First World Conference on Meteotsunamis, Split, Croatia |

2018 $\frac{\text{Salaree, A. \& Okal, E. A., 2018. Ray-tracing of finite tsunami sources, AGU Fall}{Meeting, Washington DC, USA}$

Saloor, N., Okal, E. A., & <u>Salaree, A.</u>, 2018. On the origin of the distance-depth correction $Q(\Delta, h)$ of the m_b formula: An update, AGU Fall Meeting, Washington DC, USA

Salaree, A., 2018. Tsunamis: Fight against time, Seven Minutes of Scholarship, Northwestern University

Salaree, A., Mansouri, R., & Okal, E. A., 2018. Numerical modeling and field survey of the 17 March 2017 tsunami of Bandar Dayyer, Persian Gulf, 18th Iranian Geophysical Conference, Iranian Geophysical Society, Tehran

Salaree, A., 2018. Using smartphone technology in geoscience education, *TEACHx*, *Northwestern University*

Salaree, A. & Okal, E. A., 2018. Streamline the wave forecast: Computing tsunamis for fictitious earthquakes in fake oceans, *Computational Research Day, Northwestern University*, doi: 10.21985/N2WX18

Salaree, A., 2018. Tsunamis in fake oceans, Computational Research Day, Northwestern University [Lightning Talk]

Salaree, A. & Okal, E. A., 2018. How much bathymetry resolution do we really need? A spherical harmonics expansion, *EGU General Assembly, Vienna*

Okal, E. A., Salaree, A., & Mansouri, R., 2018. The Dayyer, Iran Gulf tsunami of 19 March 2017: A probable meteo-tsunami, *EGU General Assembly, Vienna*

Salaree, A. & Okal, E. A., 2017. How perturbing ocean floor disturbs water, AGUFall Meeting, New Orleans, USA

Mansouri, R., Salaree, A., & Okal, E. A., 2017. The intriguing tsunami of 19 March 2017 in the Persian Gulf, AGU Fall Meeting, New Orleans, USA

Stein, S., Elling, R., <u>Salaree, A.</u>, & Wysession, M. E., 2017. Unintentional comedy - errors in movies and educational material – as a teaching tool, *AGU Fall Meeting*, *New Orleans*, *USA*

Salaree, A., Stein, S., Saloor, N., & Elling, R., 2017. Smartphones – the geophysics lab in your students' pocket, AGU Fall Meeting, New Orleans, USA

Stein, S., Elling, R., <u>Salaree, A.</u>, & Wysession, M. E., 2017. Unintentional comedy errors in movies and educational material – as a teaching tool, *GSA Annual Meeting*, *Seattle*, *USA*

2016 Salaree, A. & Okal, E. A., 2016. The Ust'-Kamchatsk "tsunami earthquake" of 13 April 1923: A slow event and a probable landslide, *AGU Fall Meeting, San Francisco, USA*

| 2015 | $\frac{\text{Salaree, A. \& Okal, E. A., 2015. Ocean-bottom pressure signals as potential identifiers}}{\text{of tsunami earthquakes in the near field, } AGU Fall Meeting, San Francisco, USA}$ |
|------|---|
| | Brooks, E. M., Diggory, M., Gomez, E., <u>Salaree, A.</u> , Schmid, M., Saloor, N., & Stein, S., 2015. Should Fermi have secured his water heater against earthquakes?, <i>GSA Annual Meeting, Baltimore, Maryland, USA</i> |
| | Salaree, A. & Okal, E. A., 2015. From OBS data: Acoustic signatures of tsunami earthquakes in the near-field, <i>Ocean Bottom Seismometer Symposium, Vancouver, Washington, USA</i> |
| 2014 | Salaree, A. & Okal, E. A., 2014. Field survey and simulation of the 1990 Rudbar earthquake tsunami along the Iranian coast of the Caspian Sea, <i>AGU Fall Meeting</i> , <i>San Francisco</i> , <i>USA</i> |
| 2011 | Salaree, A., Gheitanchi, M. R., Masihi, A., Shomali, Z. H., & Cheraghi, K., 2011. Study of the seismicity of Makran through the inversion of body-waves, 73rd EAGE Conference & Exhibition incorporating SPE EUROPEC, Vienna, Austria |
| 2010 | $\text{Salaree, A., 2010. Studying the general trends of Makran seismicity, using waveform anomalies, The 8th ASC General Assembly, Vietnam$ |
| | Salaree, A., Hamed, A., & Gheitanchi, M. R., 2010. Modeling the 2005, $Mw = 6.0 \text{ earthquake in Makran, using the inversion of body-waves, The 8th ASC General Assembly, Vietnam$ |
| 2009 | $\frac{\text{Salaree, A., 2009. Waveform anomalies in Makran deep-focus earthquakes, 5th International Earthquake Symposium, Kocaeli, Turkey}{2}$ |

Working Papers & Notes:

| 2021 | <u>Salaree, A., 2021a.</u> DFETCH: Practice of DART data acquisition, University of Michigan |
|------|--|
| | Salaree, A., 2021b. BEAMER: Beamforming of tsunamis – User's manual, $\overline{University}~of~Michigan$ |
| 2019 | Salaree, A., 2019a. Rayleigh wave displacement fields from finite sources, $University\ of\ Michigan$ |
| | $\underline{ \mbox{Salaree, A.}}, 2019 \mbox{b.}$ Tsunami Source Discretization (TSD), University of Michigan |
| 2018 | $\frac{\text{Salaree, A., 2018a. TsuNoise: Notes on tsunami entropy; how to sonify tsunamis, Northwestern University}$ |
| | Salaree, A., 2018b. KagDom: A user's manual, Northwestern University |
| | Salaree, A., 2018c. A user manual for Tsubox v2.0: A tsunami ray-tracing toolkit, $Northwestern\ University$ |
| 2016 | Salaree, A., 2016a. An overview of catanim v1.0, Northwestern University |

| | Salaree, A., 2016b. Beginner's notes on fluid dynamics – the road to tsunamis, $\overline{Northwestern}$ University |
|------|---|
| | Salaree, A. & Saloor, N., 2016. A beginner's guide to seismic hazard in Iran (v1.5), Northwestern University |
| 2015 | Saloor, N. & Salaree, A., 2015. A beginner's guide to seismic hazard in Iran, Northwestern $\overline{University}$ |
| 2013 | Salaree, A., 2013. Caspian Sea tsunamis: Field survey – Gillan & Mazandaran Provinces of Iran in August 2012 (report), Northwestern University |

Awards, Honors & Funds:

| 2023 | UMPDA Conference Travel Award, University of Michigan Postdoctoral Asso- ciation (\$500) |
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| 2020 | EGU Higher Education Teaching Grant, Committee on Education of the European Geosciences Union (\notin 750) |
| 2018 | AGU Data Visualization and Storytelling Competition Award, NASA & American Geophysical Union (\$1250) |
| 2018 | Graduate Service Award, Department of Earth & Planetary Sciences, North- western University (\$200) |
| | In recognition of substantial contributions to the academic and cultural life of the department in ways that go beyond the normal duties of a TA-ship or exam grader. |
| 2017 | Marion Sloss Teaching Excellence Award, Department of Earth & Planetary Sciences, Northwestern University (\$1000) |
| | In recognition of outstanding participation as a TA, the care put into teaching, as well as the energy and enthusiasm brought to the classroom. |

Teaching Experience:

Education & Outreach Publications:

| 2018 | Salaree, A., 2018. Using smartphone technology in geoscience education, \overline{TEACHx} , Northwestern University |
|------|--|
| 2017 | Stein, S., Elling, R., <u>Salaree, A.</u> , & Wysession, M. E., 2017. Unintentional comedy - errors in movies and educational material – as a teaching tool, <i>GSA Annual Meeting, Seattle, USA</i> |
| 2017 | Salaree, A., Stein, S., Saloor, N., & Elling, R., 2017. Turn your smartphone into a geophysics lab, Astron. Geophys., 58 (6), 6.35–6.36 |

| 2017 | Stein, S., Salaree, A., and Brooks, E., Teaching Assistant ships: An opportunity, not a chore, $AGU\ Blogosphere,$ Feb. 14, 2017 |
|------------------|--|
| 2017 | $\underbrace{\text{Salaree, A., After Iran-Iraq earthquake, seismologists work to fill in fault map}_{\text{of the region, } The Conversation/Chicago Tribune, Nov. 15, 2017}$ |
| Teaching Awards: | |
| 2020 | EGU Higher Education Teaching Grant, Committee on Education of the European Geosciences Union |
| 2018 | Graduate Service Award, Department of Earth & Planetary Sciences, North- western University |
| 2017 | Marion Sloss Teaching Excellence Award, Department of Earth & Planetary Sciences, Northwestern University |

Teaching Certificates & Courses:

| 2018 | Faculty Advising: What You Need to Know and How to Do It Well, Center for the Integration of Research, Teaching, & Learning (CIRTL), Northwestern University |
|-----------|--|
| 2016-2017 | Teaching Certificate Program, Searle Center for Excellence in Teaching, North- western University |
| 2011 | Teaching Excellence Workshops, New TA Conference, Searle Center for Excel- lence in Teaching, Northwestern University |

Teaching Assistantship (Northwestern University):

| Geological Hazards (Emile Okal): | Fall 2013, Spring 2015 |
|--|-----------------------------------|
| Exploration of the Solar System (Donna Jurdy): | Spring 2015 |
| Earth's Interior (Suzan van der Lee): | Winter 2013 |
| Earth's Interior (Seth Stein): | Fall 2014, Fall 2015, Winter 2017 |
| | Fall 2017 |
| Lab Instructor (Northwestern University): | |
| General Physics Lab: | Spring 2018, Fall 2018 |
| | |
| Lecturer: | |
| University of Michigan: | |
| The Physical World | Winter 2023 |

Guest & Co-Lecturer:

Global Tectonics

| University of Michigan: | |
|---|-------------|
| Introduction to GIS in the Earth Sciences | Fall 2023 |
| Introduction to Oceanography | Winter 2020 |
| Northwestern University: | |
| Earthquakes and Tectonics | Fall 2018 |
| Seismology and Earth Structure | Spring 2018 |

Developed Software Packages:

| 2023 | FetchTH: | Code bundle to bulk-compute rupture slowness for a catalog of events (automated data acquisition) |
|------|--------------------|---|
| 2021 | RecSec: | Bundle to produce record sections and radiation pattern maps for WILBER data |
| 2021 | DFETCH: | Code bundle to acquire and process DART data |
| 2020 | Beamer: | Bundle for beamforming of tsunamis |
| 2019 | FRUN: | Bundle of codes and scripts to calculate and visualize Rayleigh wave displacement fields from finite ruptures using normal modes theory |
| | TSD: | Tsunami Source Discretization package |
| 2018 | TsuNoise: | Bundle of scripts & FORTRAN codes to sonify tsunami simulations using statistical entropy |
| | KagDom: | Set of programs to find the dominant tectonic trend of a region from the available catalog of focal geometries |
| | Tsubox v2.0: | Can be used to ray-trace complex tsunami sources |
| 2017 | METEO: | Finite-difference code to calculate meteotsunami ampli- tudes |
| 2016 | CATANIM: | Creates 4D movies of earthquake distribution in a given catalog |
| 2015 | SNRGAP: | Script package to create record gap logs (and movies) in seismic datasets using IRIS MUSTANG and similar services |
| 2014 | RESPSHELL : | Code package to experimentally analyze the behavior of instrument response curves in different frequency bands |

Spring 2015

Media:

| 2023 | Thielen, J., Solving a Seismic Mystery with Diver's Camera: An Interview with Dr. Amir Salaree, <i>Bits and Pieces, University of Michigan</i> , Sep. 25, 2023 |
|------|--|
| 2022 | Koenig, L. A., Shallow waters trap "silent" tsunamis from volcanic landslides, $Temblor,\mathrm{Mar.}$ 1, 2022 |
| 2021 | Ham, B., At Work: Amir Salaree, <i>Seismological Society of America</i> , Jul. 15, 2021 |
| 2018 | Salaree, A., Tsunamis: Fight against Time, Seven Minutes of Scholarship Symposium, Northwestern University , Aug. 1, 2018 |
| 2017 | Salaree, A., After Iran-Iraq earthquake, seismologists work to fill in fault map of the region, <i>The Conversation/Chicago Tribune</i> , Nov. 15, 2017 |
| 2017 | Stein, S., Salaree, A., and Brooks, E., Teaching Assistant ships: An opportunity, not a chore, $AGU\ Blogosphere,$ Feb. 14, 2017 |

Certifications/Educational Courses:

| 2016-2017 | Teaching Certificate Program, Searle Center for Excellence in Teaching, North- western University |
|---------------|--|
| August 2015 | IRIS-Earth scope USArray Data Processing and Analysis Short Course, $Indiana$ $University, \ Bloomington$ |
| July 2015 | CIDER 2015 Summer Program, "Solid Earth Dynamics and Climate – Mantle Interactions with the Hydrosphere & Carbosphere", U. C. Berkeley, Berkeley, CA |
| November 2011 | Teaching Excellence Workshops, New TA Conference, Searle Center for Excel- lence in Teaching, Northwestern University |
| October 2011 | Mathematics in the Geosciences, Northwestern University |
| October 2010 | International "Preparedness and Awareness of Makran Tsunami Hazards" Field Workshop, <i>Iranian National Institute for Oceanography</i> (Joint certificate by UNESCO and INIO) |
| May 2010 | International "Preparedness and Awareness of Makran Tsunami Hazards" Workshop, <i>Iranian National Institute for Oceanography</i> (Joint certificate by UNESCO and INIO) |
| 2009 | Introduction to Seismological Software, Z. H. Shomali, <i>Institute of Geophysics, University of Tehran</i> |
| 2004 | English Senior Proficiency, Iran Language Institute (ILI) |
| | |

Experiences/Responsibilities/Outreach:

| 2023 | Panelist: Joint SMART Cables Workshop, University of Hawai'i at Mānoa |
|-------------|--|
| 2021 | Lecturer: Measurements in Earth Science, Summer EarthCamp, University of Michigan |
| 2020 | Session Chair: <u>U014.</u> How Can We Implement AGU's "Science for Solutions" to Address Societal Problems, AGU Fall Meeting |
| 2020- | <i>Member:</i> Joint Task Force to investigate the use of submarine telecommunications cables for ocean and climate monitoring and disaster warning |
| Summer 2018 | $\label{eq:anticipant: Ready, Set, Go} (RSG) - Seven Minutes of Scholarship Symposium, Northwestern University$ |
| 2011-2014 | $Member: \ {\rm Project\ EXCITE!\ to\ teach\ elementary\ school\ kids\ some\ basic\ concepts\ about\ earthquakes,\ Department\ of\ Earth\ and\ Planetary\ Sciences,\ Northwestern\ University$ |
| 2008-2009 | Member: Project to acquire fault slip rate using optical Moire technique [PI: M. Tavassoli], University of Tehran |

Skills & Qualifications:

Computer Skills:

- Programming & scripting: [proficient] FORTRAN, Bash, ${\rm I\!\!\!A} T_{\rm E} X,$ Postscript; [familiar] C, Python, MATLAB, HTML
- Parallel & high performance computing: Slurm, OpenMP
- Tsunami simulation models
- Earthquake source simulation codes

Languages:

- English (fluent)
- Farsi (mother tongue)
- Arabic (Reading and Listening: excellent; Speaking: Fair)
- Italian (basic)