

ANDREA DONNELLAN

Peer-Reviewed Publications

- [1] **Donnellan, A.**, C. Padgett, J. Green, R. Zinke, R. Applegate, R. Chao, K. Tighe, H. Aghazarian, D. Kogan, C. Assad, S. Bell, S. Chu, R. Arrowsmith, M. Schwarz, The QUAKEs-I Stereoimaging Instrument for Measuring Surface Topography and Land Surface Processes, 2026, Earth and Space Science, <https://doi.org/10.1029/2024EA004001>.
- [2] A. Jafari, G. Fox, J. Rundle, **A. Donnellan**, L. Grant Ludwig (2024), Time Series Foundation Models and Deep Learning Architectures for Earthquake Temporal and Spatial Nowcasting, Geohazards, <https://doi.org/10.3390/geohazards5040059>.
- [3] Rundle, J.B., **Donnellan, A.**, Fox, G., Ludwig, L.G. and Crutchfield, J., 2023. Does the Catalog of California Earthquakes, with Aftershocks Included, Contain Information about Future Large Earthquakes? Earth and Space Science, 10(2), p.e2022EA002521.
- [4] Rundle, J.B., **Donnellan, A.**, Fox, G. and Crutchfield, J.P., 2022. Nowcasting earthquakes by visualizing the earthquake cycle with machine learning: A comparison of two methods. Surveys in Geophysics, 43(2), pp.483-501.
- [5] Rundle, J.B., Y. Yazbeck, **A. Donnellan**, G. Fox, L. Grant Ludwig, M. Heflin, J. Crutchfield, 2022, Optimizing Earthquake Nowcasting with Machine Learning: The Role of Strain Hardening in the Earthquake Cycle, Earth and Space Science
- [6] **Donnellan, A.**, J. Suarez, D. Asimaki, C. Goulet, D. McPhillips, Z. Meng, S. Devine, G. Lyzenga, 2022, Toppling of Trona Pinnacles in the 2019 Ridgecrest Earthquake Sequence and subsequent M5.6 Aftershock of June 2020, Seismological Research Letters.
- [7] Fox, G.C., Rundle, J.B., **Donnellan, A.** and Feng, B., 2022. Earthquake nowcasting with deep learning. Geohazards, 3(2), pp.199-226.
- [8] Grzan, D., Ward, S., Wilson, J.M., Rundle, J.B. and **Donnellan, A.**, 2022. Tsunami Squares Implementation Changes to Improve Wave Resolution and Accuracy. Authorea Preprints.
- [9] Granat, R., **A. Donnellan**, M. Heflin, G. Lyzenga, M. Glasscoe, J. Parker, M. Pierce, J. Wang, J. Rundle, L. Grant Ludwig, 2021, Clustering Analysis Methods for GNSS Observations: A Data-Driven Approach to Identifying California's Major Faults, Earth and Space Science, DOI: 10.1029/2021EA001680.
- [10] Rundle, J.B., Donnellan, A., Fox, G. and Crutchfield, J.P., 2021. Nowcasting Earthquakes by Visualizing the Earthquake Cycle with Machine Learning: A Comparison of Two Methods. Surveys in Geophysics, pp.1-19.
- [11] Grzan, D.P., Rundle, J.B., Wilson, J.M., Song, T., Ward, S.N. and Donnellan, A., 2021. Tsunami Squares: Earthquake driven inundation mapping and validation by comparison to the Regional Ocean Modeling System. Progress in Disaster Science, p.100191.
- [12] Goulet, C.A., Wang, Y., Nweke, C.C., Tang, B.X., Wang, P., Hudson, K.S., Ahdi, S.K., Meng, X., Hudson, M.B., Donnellan, A. and Lyzenga, G.A., 2021. Comparison of near-fault displacement interpretations from field and aerial data for the M 6.5 and 7.1 ridgecrest earthquake sequence ruptures. Bulletin of the Seismological Society of America, 111(5), pp.2317-2333. <https://doi.org/10.1785/0120200222>.
- [13] Parker, J., **A. Donnellan**, R. Bilham, L. Grant Ludwig, J. Wang, M. Pierce, N. Mowery, S. Janecke, 2021, Buried Aseismic Slip and Off-Fault Deformation on the Southernmost San Andreas Fault Triggered by the 2010 El Mayor Cucapah Earthquake Revealed by UAVSAR, Earth and Space Science, DOI:10.1029/2021EA001682.

- [14] Saylor, C., Rundle, J.B. and Donnellan, A., 2021. Multifractal Analysis of a Seismic Moment Distribution Obtained From InSAR Inversion. *Earth and Space Science*, 8(9), p.e2020EA001433.
- [15] Simons, M., Bekaert, D., Borsa, A., Donnellan, A., Fielding, E., Jones, C., Lohman, R., Lu, Z., Meyer, F., Owen, S. and Rosen, P.A., 2021, July. Nisar Requirements and Validation Approach for Solid Earth Science. In 2021 IEEE International Geoscience and Remote Sensing Symposium IGARSS (pp. 543-546). IEEE.
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- [17] Parker, J., **A. Donnellan**, R. Bilham, L. Grand Ludwig, J. Wang, M. Pierce, N. Mowry, S. Jänecke, 2021, Buried Aseismic Slip and Off-Fault Deformation on the Southernmost San Andreas Fault triggered by the 2010 El Mayor Cucapah Earthquake revealed by UAVSAR, *Earth and Space Science*, DOI: 10.1029/2021EA001682.
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- [21] **Donnellan, A.**, J. Parker, M. Heflin, M. Glasscoe, G. Lyzenga, M. Pierce, J. Wang, J. Rundle, L. Grant Ludwig, R. Granat, M. Mirkhanian, N. Pulver, 2021, Improving Access to Geodetic Imaging Crustal Deformation Data Using GeoGateway, *Earth Science Informatics*, DOI: 10.1007/s12145-020-00561-7.
- [22] Dawson, T., C.B. DuRoss, R. Gold, K. Scharer, D. Ponti, T. Ladinsky, V.E. Langenheim, D. McPhillips, A. Morelan, C. Milliner, K. Kendrick, J. Hernandez, K. Hudnut, S. Akciz, S. Angster, J-P. Avouac, S. Bacon, J. Bachhuber, N. Barth, S. Bennett, L. Blair, K. Blake, S. Bork, B. Brooks, T. Bullard, W.P. Burgess, C. Chupik, M. DeFrisco, J. Delano, J. Dolan, **A. Donnellan**, T. Ericksen, E. Frost, G. Funning, N. Graehl, C. Gutierrez, E. Haddon, P. Holland, A. Hatem, J. Helms, C. Hitchcock, J.T. Jobe, R. Koehler, O. Kozaci, C. Madugo, R. Leeper, M. Mareschal, D. McPhillips, M. O’Neil, J. Nevitt, B. Olson, S. Padilla, J. Patton, B. Philibosian, A.J. Pickering, I. Pierce, C. Pridmore, N. Roth, D. Sandwell, G. Seitz, D. Singleton, B. Smith-Konter, E. Spangler, B. Swanson, K. Thomas, J. Treiman, F. Valencia, A. Williams, X. Xu, J. Zachariasen, J. Zimmerman, and R. Zinke, submitted, Field-based Observations of Surface Ruptures Associated with the 2019 Ridgecrest Earthquake Sequence, *Bull. Seism. Soc. Am.*
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- [24] Rundle, J.B., **A. Donnellan**, 2020, Nowcasting Earthquakes in Southern California with Machine Learning: Bursts, Swarms and Aftershocks May Be Related to Levels of Regional Tectonic Stress, *Earth and Space Science*, doi: 10.1029/2020EA001097.

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