

Luis Ceferino

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Office Address
Davis Hall, Room 773
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Professional Associations:

University of California, Berkeley Assistant Professor, Civil and Environmental Eng. Dept.	California, USA 2024 – Present
New York University Assistant Professor, Civil and Urban Eng. Dept. & Center for Urban Science and Progress	New York, USA 2021 – 2023
Princeton University Distinguished Postdoctoral Fellow, Andlinger Center for Energy and the Environment	New Jersey, USA 2019 – 2020

Education:

Stanford University PhD Civil and Environmental Engineering	California, USA 2015 – 2019
Stanford University MS Structural Engineering and Geomechanics	California, USA 2013 – 2014
Universidad Nacional de Ingeniería Bachelor of Science in Civil Engineering	Lima, Peru 2007 – 2011

Awards and Honors:

Andlinger Center Distinguished Postdoctoral Fellowship, Princeton University	2019 – 2020
John A. Blume Fellowship, Stanford University	2017 – 2018
Shah Family Fellowship, Stanford University	2015 – 2016
Andrés del Castillo Fellowship, Patronato UNI (Peru)	2013
Presidential Fellowship, Department of Education (Peru)	2013
Undergraduate Research Award, CONEIC (Peru)	2013
Valedictorian (#1/104), Civil Engineering Dept., Universidad Nacional de Ingeniería (Peru)	2011
Manuel Pardo y Lavalley Undergraduate Prize, Patronato UNI (Peru)	2010
Undergraduate Admission Test Award (#8/4277), Universidad Nacional de Ingeniería (Peru)	2007

Research:

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- Research Interests: Multi-hazard risk analysis; reliability of critical infrastructure systems; climate adaptation and disaster resilience; structural engineering; extreme event modeling; artificial intelligence; uncertainty quantification; stochastic programming.
 - Publications: 22 peer-reviewed papers in high-impact interdisciplinary and disciplinary journals: *Nature Communications*; *Earthquake Spectra*; *Applied Energy*; *Bulletin of the Seismological Society of America*; *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems (Part A: Civil Engineering)*; *ASCE Natural Hazards Review*; *Reliability Engineering & Structural Safety*; *Journal of Earthquake Engineering and Structural Dynamics*; *Risk Analysis*; *Natural Hazards and Earth System Sciences*; *IEEE Transactions on Visualization and Computer Graphic*; *Stochastic Environmental Research and Risk Assessment*; *Sustainability*; *Journal of Disaster Research*.
Numerous refereed conference papers (20); preprints under review (4); and academic reports (6).
 - Google Scholar Citation: 596, h-index: 13, i10-index:16
 - ~27 invited talks at universities or research institutions
 - Lead Principal Investigator (PI) or co-PI for numerous research and innovation projects supported by NSF, Peru’s Department of Production, totaling ~ USD 0.8M for his research group in external funding.

Updated September 2024

- Lead PI on NSF Project “CLIMA/Collaborative Research: Riders on the Storm: Climate Adaptation of Housing Infrastructure for Resilient Communities in Coastal Cities.” (07/2024 – 06/2026)
- Lead PI on NSF Project “Collaborative Research: Enhancing Earthquake Casualty Predictions: A Novel Modeling Framework Informed by Epidemiology and Local Human-Building Dynamics” (08/2024 – 07/2027)

Teaching and Advising

Five courses at the undergraduate and graduate level with excellent teaching scores:

- CE 294 Disaster Risk Analysis of Infrastructure Systems (UC Berkeley’s Graduate Program).
 - Reviews: N/A – Fall 2024
- CE 120 Structural Engineering (UC Berkeley’s Undergraduate Program).
 - Reviews: 6.32/7.0 (76 students) – Spring 2024.
- CE-UY 2133 Engineering Mechanics (NYU’s Undergraduate Program).
 - Reviews: 4.9/5.0 (16 students) – Fall 2023.
- CE-UY 3133 Structural Analysis (NYU’s Undergraduate Program).
 - Reviews: 5.0/5.0 (5 students) – Fall 2022; 4.4/5.0 (7 students) – Spring 2021.
- CUSP-GX 8006 Disaster Risk Analysis and Urban Systems Resilience (NYU’s Graduate Program).
 - Reviews: 4.2/5.0 (11 students) – Spring 2023; 4.0/5.0 (13 students) – Spring 2022.

Advising:

- Postdoctoral Associates (2)
 - Azin Ghaffary (2022 – Present, NYU CUSP Faculty Fellow)
 - Charalampos Avraam (2021 – 2023, NYU CUSP Faculty Fellow) – Researcher at NREL.
- Ph.D. Students (3)
 - SoungEil Houg (2023 – Present)
 - Riccardo Negri (2022 – Present)
 - Prateek Arora (2021 – Present)
- Visiting Ph.D. Students (2)
 - Yvonne Merino, Pontificia Universidad Católica de Chile, Chile (2022 – 2023)
 - Carlos Mesta, University of Pavia, Italy (2022 – 2022)
- M.S. Students (27): Cayden Chen; Tarea Karunaratne; Jikun Liu; Eva Yao; Charan Kukunoor; Dan Mao; Xinlu Xu; Erdi Gao; Ziyang Huang; Tianqi Zhang; Zhongqi Zhang; Ruoru Feng; Hongming Liu; Hao Shi; Anna Kramer; Muxin Jiang; Yu Ze Toh; Akshay Shetty; Shuang Guo; Henry Cui; Shuang Guo; Qinchun Li; Punit Vats; Yifan Zhang; Yuanbo Zhang; Dajian Liu; Kexun Li.
- Student groups:
 - UC Berkeley EERI Seismic Design Competition (2024 – Present).
 - NYU EERI Seismic Design Competition (2021 – 2023).

Leadership and Professional Services

- University of California, Berkeley
 - Executive Committee Member for the [University of California Disaster Resilience Network](#) (2024 – Present)
 - IDBE Committee Member in the CEE Dept. (2024 – Present)
- New York University
 - Faculty Search Committee Member in the CUE Dept. (2023)
 - Faculty Search Committee Member in the CUE Dept. (2022)
- Earthquake Engineering Research Institute
 - Co-chair of the Public Health Working Group (2022 – 2024)
- Professional Appointments
 - Disaster Risk Specialist Consultant, World Bank (2024 – Present)

- Disaster Risk Specialist Consultant, World Bank Group (2024 – Present)
- Earthquake Risk Consultant, Applied Technology Council (2019 – 2020)
- Earthquake Risk Consultant, World Bank Group (2017 – 2019)
- Co-founder/CTO, Yanapay Inc. (2017 – 2019)
- Co-founder/Structural Engineering Consultant, RENDEL Inc. (2015-2019)
- Structural Engineering Staff, Rivera Consulting Group Inc. (2014)
- Reviewer activities:
 - Proposals for funding agencies: NSF (2023, 2024, 2024); USGS (2023)
 - Journals: *Nature Communications*; *Earthquake Spectra*; *ASCE Natural Hazards Reviews*; *Reliability Engineering and System Safety*; *Journal of Earthquake Engineering*; *Risk Analysis*; *Natural Hazards*; *Computers and Structures*; *International Journal of Disaster Risk Reduction*; *Computers and Operations Research*; *Journal of Disaster Research*; *Seismica*; *Earthquake Engineering and Structural Dynamics*
- Organizer/Co-organizer for Workshops and Conference Sessions:
 - 14th International Conference on Application of Statistics and Probability in Civil Engineering (ICASP 2023) at the Trinity College Dublin, Dublin, Ireland
 - 12th National Conference on Earthquake Engineering (NCEE 2022), Salt Lake City, Utah
 - 11th National Conference on Earthquake Engineering (2018), at UCLA, Los Angeles, California
 - 12th International Conference on Structural Safety and Reliability (ICOSAAR 2017), TU Wien, Vienna, Austria
 - 2nd Techsuyo, Peruvian Tech Community Meeting (2017)

Journal papers (student or postdoc in Ceferino's group when the research was conducted)

- [J1] Arora, P., Ceferino, L. (In review). The Feasibility of Energy Communities for Hurricane Resilience. [\[Preprint\]](#)
- [J2] Negri, R., Ceferino, L., A., Cremen, G. (In review). Prioritizing Urban Areas for Hyper-local Flood Sensors using Stakeholder Elicitation and Risk Analysis. [\[Preprint\]](#)
- [J3] Ceferino, L., Kukunoor, C., Mao, D., Xu, X., Wu, J., Zsarnócsay, A. (In review) Accessing Acute Care Hospitals in the San Francisco Bay after a Major Hayward Earthquake. [\[Preprint\]](#)
- [J4] Houng, SE., Ceferino, L. (In review). Fast Probabilistic Seismic Hazard Analysis through Adaptive Importance Sampling. [\[Preprint\]](#)
- [J5] Merino, Y., Ceferino, L., Pizarro, S., de la Llera, J. C. (2024). Modeling Hospital Resources based on Global Epidemiology after Earthquake-Related Disasters. *Earthquake Spectra*.
- [J6] Ceferino, L., Merino, Y., Pizarro, S., Moya, L., Ozturk, B. (2024). Placing Engineering in the Earthquake Response and the Survival Chain. *Nature Communications*, 15 (4298).
- [J7] Arora, P., Ceferino, L. (2024). A Quasi-binomial Regression Model for Hurricane-induced Power Outages during Early Warning. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, 10 (2).
- [J8] Liu, C., Macedo, J., Kottke, A., Ceferino, L. (2024). Impact of Ergodic and Non-ergodic Ground Motion Estimation on the Earthquake Resilience of Shared Distributed Energy Resource Systems. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, 10 (1).
- [J9] Avraam, C., Ceferino, L., Dvorkin, Y. (2023). Operational and Economy-Wide Impacts of Compound Cyberattacks and Extreme Weather Events on Electric Power Networks. *Applied Energy*, 349 (121577).
- [J10] Ceferino, L., & Lin, N. (2023). Hurricane Risk of Solar Generation in the United States. *ASCE Natural Hazards Review*. 24 (4), 04023029:1-12.
- [J11] Arora, P., Ceferino, L. (2023). Probabilistic and machine learning methods for uncertainty quantification in power outage prediction due to extreme events. *Natural Hazards and Earth System Sciences*, 23 (5), 1665–1683.
- [J12] Ceferino, L., Lin, N., & Xi, D. (2023). Bayesian Updating of Solar Panel Fragility Curves and Implications of Higher Panel Strength for Solar Generation Resilience. *Reliability Engineering & Structural Safety*, 229 (108896).
- [J13] Alisjahbana, I., Ceferino, L., Kiremidjian, A. (2023). Prioritized Reconstruction of Healthcare Facilities after Earthquakes based on Recovery of Emergency Services. *Risk Analysis*, 43 (9), 1763–1778.

- [J14] Mota, R., Ferreira, N., Silva, J. D., Horga, M., Lage, M., **Ceferino, L.**, Alim, U., Sharlin, E. & Miranda, F. (2022) A Comparison of Spatiotemporal Visualizations for 3D Urban Analytics. *IEEE Transactions on Visualization and Computer Graphics*, 29 (1) 1277-1287.
- [J15] Hariri-Ardebili MA, Sattar S, Johnson K, Clavin C, Fung J, **Ceferino L.** (2022). A Perspective towards Multi-Hazard Resilient Systems: Natural Hazards and Pandemics. *Sustainability*. 14(8):4508.
- [J16] **Ceferino, L.**, Lin, N. & Xi, D. (2022) Stochastic modeling of solar irradiance during hurricanes. *Stochastic Environmental Research and Risk Assessment*, 36, 2681–2693.
- [J17] **Ceferino, L.**, Galvez, P., Ampuero, J.-P., Kiremidjian, A., Deierlein, G., & Villegas-Lanza, J. C. (2021). Bayesian Parameter Estimation for Space and Time Interacting Earthquake Rupture Model Using Historical and Physics-Based Simulated Earthquake Catalogs. *Bulletin of the Seismological Society of America*, 111 (6): 3356–3373.
- [J18] Patel, S., **Ceferino, L.**, Liu, C., Kiremidjian, A., & Rajagopal, R. (2021). The disaster resilience value of shared rooftop solar systems in residential communities. *Earthquake Spectra*, June, 1–24.
- [J19] **Ceferino L.**, Mitrani-Reiser J., Kiremidjian A., Deierlein G., Bambarén, Celso (2020). “Effective Plans for Hospital System Response to Earthquake Emergencies”. *Nature Communications*, 11, 4325.
- [J20] **Ceferino, L.**, Kiremidjian, A., and Deierlein, G. (2020). “Probabilistic space- and time-interaction modeling of main-shock earthquake rupture occurrence”. *Bulletin of Seismological Society of America*. 110 (5): 2498-2518.
- [J21] **Ceferino L.**, Kiremidjian A., and Deierlein G. (2018). “Regional Multi-severity Casualty Estimation Due to Building Damage Following a Mw 8.8 Earthquake in Lima, Peru”. *Earthquake Spectra*, 4(3).
- [J22] **Ceferino L.**, Kiremidjian A., and Deierlein G. (2018). “Probabilistic Model for Regional Multi-severity Casualty Estimation due to Building Damage Following Earthquakes. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, 4(3), 04018023.
- [J23] Markhvida M., **Ceferino L.**, and Baker J. (2017). “Modeling spatially correlated spectral accelerations at multiple periods using principal component analysis and geostatistics.” *Journal of Earthquake Engineering and Structural Dynamics*, 47(5), 1107-1123.
- [J24] Noh H.Y., Kiremidjian A., **Ceferino L.**, and So E. (2017). “Bayesian Updating of Earthquake Vulnerability Functions with Application to Mortality Rates.” *Earthquake Spectra*, Vol. 33, No. 3, pp. 1173-1189.
- [J25] Lallemand D., Burton H., **Ceferino L.**, Bullock Z., and Kiremidjian A. (2017). “A Framework and Case Study for Earthquake Vulnerability Assessment of Incrementally Expanding Buildings.” *Earthquake Spectra*, 33(4).
- [J26] Zavala C., Gibu P., Lavado L., Taira J., Cárdenas L., and **Ceferino L.** (2012). “Cyclic Behavior of Low Ductility Walls Considering Perpendicular Action.” *Journal of Disaster Research*, 8(2), 313.

Refereed Conference Papers

- [C1] **Ceferino, L.**, Kukunoor, C., Zarnóczy, A. (2024). The Benefits of Large-scale Seismic Retrofits in the Hospital Systems in the Bay Area, California. *In 18th World Conference on Earthquake Engineering*, Milan, Italy.
- [C2] Espinoza-Sifuentes, B., Moya, L., Ceferino, L. (2024). Vertical Growth of Masonry Buildings in Peru and its Role in their Seismic Vulnerability. *In 18th World Conference on Earthquake Engineering*, Milan, Italy.
- [C3] Moya, L., Mesias, F., Tostado, A., Kramer, A., Ceferino, L., Wiguna, S., Adriano, B. (2024). Open Dataset of Road Obstructions due to Collapsed Buildings from the 2023 Turkey Earthquakes. *In 18th World Conference on Earthquake Engineering*, Milan, Italy.
- [C4] Mesta, C., Ceferino, L., Cremen, G., Galasso, C. (2024). Understanding Post-earthquake Hospital Arrival Times through Agent-based Modeling. *In 18th World Conference on Earthquake Engineering*, Milan, Italy.
- [C5] Arora, P. & **Ceferino, L.** (2023). A performance-based probabilistic framework to model risk to power systems from hurricanes. *In 14th International Conference on Applications of Statistics and Probability in Civil Engineering*, Dublin, Ireland.
- [C6] Arora, P. & **Ceferino, L.** (2023). Could rooftop solar panels and storage have enhanced the electricity resilience during Hurricane Isaias (2020)? *In 14th International Conference on Applications of Statistics and Probability in Civil Engineering*, Dublin, Ireland.

- [C7] Negri, R., Fernandez, M., Tan, B. Y. & **Ceferino, L.** (2023). Investigating the Use of Citizen-Science Data as a Proxy for Flood Risk Assessment in New York City. In *14th International Conference on Applications of Statistics and Probability in Civil Engineering*, Dublin, Ireland.
- [C8] Avraam, C., Dvorkin, Y. & **Ceferino, L.** (2023). Risk of New York City's Electric Power Networks Against Compound Extreme Floodings and Cyberattacks. In *14th International Conference on Applications of Statistics and Probability in Civil Engineering*, Dublin, Ireland.
- [C9] **Ceferino, L.**, Kukunoor, C., Mao, D., Xu, X. & Wu, J. (2023). Combining Seismic Risk Analysis and Network Modeling to Assess Hospital Service Accessibility in the Bay Area, California. In *14th International Conference on Applications of Statistics and Probability in Civil Engineering*, Dublin, Ireland.
- [C10] **Ceferino, L.**, Martin, A., & Bambarén, C. (2022). Hospital System Response to Earthquakes in the COVID-19 Pandemic. *The 12th National Conference on Earthquake Engineering*, Salt Lake City, US.
- [C11] **Ceferino, L.**, Lin, N., & Xi, D. (2020). Distributed Energy Resources for Disaster Resilience to Hurricanes in a Changing Climate. In American Geophysical Union Fall Meeting.
- [C12] **Ceferino, L.**, Mitrani-Reiser, J., Kiremidjian, A., Deierlein, G., & Bambarén, C. (2020). Informing Emergency Response of Hospital Systems after Moderate and Large Earthquakes in Lima, Peru. In 17th World Conference on Earthquake Engineering, 6c – 0003, Tokyo, Japan.
- [C13] **Ceferino, L.**, Liu, C., Alisjahbana, I., Patel, S., Sun, T., Kiremidjian, A., & Rajagopal, R. (2020). Earthquake resilience of distributed energy resources. In 17th World Conference on Earthquake Engineering, Tokyo, Japan.
- [C14] Markhvida, M., Cremen, G., Grujic, O., **Ceferino, L.**, & Baker, J. (2020). Methods for Evaluation and Treatment of Epistemic Uncertainty in Portfolio Losses Due to Earthquakes. In 17th World Conference on Earthquake Engineering, 1–10, Tokyo, Japan.
- [C15] **Ceferino L.**, Mitrani-Reiser J., Kiremidjian A., and Deierlein G. (2018). “Computing Hospital System Resilience: A Supply-Demand Perspective”. In 11th National Conference in Earthquake Engineering, Earthquake Engineering Research Institute, Los Angeles, US.
- [C16] **Ceferino L.**, Kiremidjian A., and Deierlein G. (2018). “Parameter Estimation Methods for Modeling of Time and Space Interactions of Earthquake Rupture”. In 16th European Conference in Earthquake Engineering, Thessaloniki, Greece.
- [C17] **Ceferino L.**, Kiremidjian A., and Deierlein G. (2017). “Space and time interaction modeling of earthquake rupture occurrence”. In 12th International Conference on Structural Safety & Reliability, Vienna, Austria.
- [C18] **Ceferino L.**, Kiremidjian A., and Deierlein G. (2017). “Framework of the estimation of the health status of the population during an earthquake emergency”. In 16th World Conference on Earthquake Engineering, Santiago de Chile, Chile.
- [C19] Markhvida M., **Ceferino L.**, and Baker J. (2017). “Effect of ground motion correlation on regional seismic loss estimation: application to Lima, Peru using a cross-correlated principal component analysis model”. In 12th International Conference on Structural Safety & Reliability, Vienna, Austria.
- [C20] Zavala C., Gibu P., Lavado L., Taira J., Cardenas L., and **Ceferino L.** (2013). “Low Ductility Concrete Wall Test Considering Perpendicular Wall Action”. In 10th International Conference on Urban Earthquake Engineering, Center for Urban Earthquake Engineering, Tokyo Institute of Technology, pp.599-602, 2013.

Technical Reports

- [R1]. Miranda E, Acosta A, **Ceferino L**, Davalos H, Galvis F, Gunay S, Heresi P, Macedo J, Miranda S, Ramos J, Rojas P, Ruiz-Garcia J, Vera X, Mosalam K, Robertson I, Roueche D. “StEER - 26 MAY 2019 LAGUNA PERU EARTHQUAKE: PRELIMINARY VIRTUAL ASSESSMENT STRUCTURAL TEAM (P-VAST) REPORT.” DesignSafe-CI. <https://doi.org/10.17603/ds2-cbff-4878>
- [R2]. **Ceferino L**, Ibrahim H, Javadinasab Hormozabadi S, Kijewski-Correa T, Pilkington S, Roueche D, Robertson I, and Prevatt D. “Event briefing. StEER—Hurricane Zeta.” November 2020. DesignSafe-CI. <https://doi.org/10.17603/ds2-67r3-2y51>
- [R3]. Fischer E, Aldea S, Archbold J, Bantis J, Bravo M, **Ceferino L**, Carrillo J, Cheng K, Cordero D, Elkady A, Guerrero H, Gunay S, Hakhamaneshi M, Heresi P, Hoepfinger C, Khalil Z, Mathur V, Martin A, Metz A, Mijic Z, Miranda E,

Pajaro C, Poulos A, Sepulveda C, Toraman E, Wein A, Wu K, Zambrano J, Zhang J. "EERI: LUGU, TAIWAN SEPTEMBER 18, 2022, Mw 6.9 EARTHQUAKE." September 2022, DesignSafe-CI. <https://doi.org/10.17603/ds2-65yg-nn97>

- [R4]. Cortes M, Arora P, **Ceferino L**, Ibrahim H, Istrati D, Reed D, Roueche D, Safiey A, Tomiczek T, Zisis I, Alam M, Kijewski-Correa T, Prevatt D, Robertson I. "StEER: Hurricane Ian Preliminary Virtual Reconnaissance Report (PVRR)." November 2022, DesignSafe-CI. <https://doi.org/10.17603/ds2-kc9k-s242>
- [R5]. Dilsiz A, Gunay S, Mosalam K, Miranda E, Arteta C, Sezen H, Fischer E, Hakhamaneshi M, Hassan W, Alhawamdeh B, Andrus S, Archbold J, Arslanturkoglu S, Bektas N, **Ceferino L**, Cohen J, Duran B, Erazo K, Faraone G, Feinstein T, Gautam R, Gupta A, Haj Ismail S, Jana A, Javadinasab Hormozabad S, Kasalanati A, Kenawy M, Khalil Z, Liou I, Marinkovic M, Martin A, Merino Y, Mivehchi M, Moya M, Pajaro Miranda C, Quintero N, Rivera J, Romão X, Lopez Ruiz M, Sorosh S, Vargas L, Velani P, Wibowo H, Xu S, Yilmaz T, Alam M, Holtzer G, Kijewski-Correa T, Robertson I, Roueche D, Safiey A. "StEER: 2023 Mw 7.8 Kahramanmaras, Türkiye Earthquake Sequence Preliminary Virtual Reconnaissance Report (PVRR)." February 2023, DesignSafe-CI. <https://doi.org/10.17603/ds2-7ry2-gv66.v1>
- [R6]. Alami M, Gunay S, Mosalam K, Vargas L, Hassan W, Merino-Peña Y, Burton H, Alhawamdeh B, Lahna T, Xu S, Marinkovic M, Archbold J, Iturburu L, Martin A, Bektas N, **Ceferino L**, Duran B, Nobahar M, Romão X, Wang C, Zhou G, Zaoui A, Zaoui H, Kijewski-Correa T. "StEER: Oukaïmedene Morocco Preliminary Virtual Reconnaissance Report (PVRR)." October 2023. DesignSafe-CI. <https://doi.org/10.17603/ds2-gw0j-6757>

Community Service and Outreach

- Led a workshop with multiple stakeholders of the [FloodNet Initiative](#), including researchers, emergency responders, and city officers, to define priority areas to deploy 500 sensors for inland floods in NYC 2022
- Developed material and taught a three-session interactive lecture on earthquake fundamentals at the Sequoia High School in Redwood City, California 2017
- Conducted a community session on earthquake vulnerability of soft-story houses for critical neighborhoods in Oakland, California, in coordination with the Oakland Chief Resilience Officer 2015

Invited Seminars at Universities and Research Institutes

1. University of Colorado Boulder, Dept. of Civil, Environmental and Architectural Eng., Sep. 2024
2. Pontificia Universidad Católica del Perú, Dept. de Ingeniería Civil, Lima, Peru, Aug. 2024
3. Rice University, Dept. of Civil and Environmental Eng., Nov. 2023
4. Columbia University, Dept. of Civil Engineering and Engineering Mechanics, Oct. 2023
5. Universidad Nacional de Ingeniería, Dept. de Ingeniería Civil, Lima, Peru, Aug. 2023
6. Pontificia Universidad Católica de Chile, Dept. de Ingeniería Estructural y Geotécnica, Santiago de Chile, Chile, Jun. 2023
7. New Jersey Institute of Technology, Dept. of Civil and Environmental Eng., May. 2023
8. University of California, Berkeley, Dept. of Civil and Environmental Eng., Mar. 2023
9. Stony Brook University, Dept. of Civil and Environmental Eng., Nov. 2022
10. Stanford University, Blume Center and SURI Affiliates and Alumni Meeting, Oct. 2022
11. University of California, Los Angeles, ASCE Lifelines Conference, Feb. 2022
12. University College of London, Dept. of Civil, Environmental and Geomatic Engineering, London, UK, Nov. 2021
13. The UN Climate Change Conference of Parties (COP26), NYU Official Delegation, Glasgow, Scotland, Nov. 2021
14. University of California, Los Angeles, Dept. of Civil and Environmental Eng., Feb. 2021
15. University College of London, Dept. of Civil, Environmental and Geomatic Engineering, London, UK, Nov. 2020
16. Johns Hopkins University, Dept. of Civil and Systems Eng., Mar. 2020
17. University of Washington, Dept. of Civil and Environmental Eng., Feb. 2020
18. New York University, Dept. of Civil and Urban Eng., Feb. 2020
19. University of Delaware, Dept. Civil, Construction, and Environmental Engineering, Nov. 2019
20. Princeton University, Dept. of Civil and Environmental Eng., Feb. 2020
21. University of Delaware, Dept. Civil, Construction, and Environmental Engineering, May. 2019

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22. Universidad Nacional de Ingeniería, Dept. de Ingeniería Civil, Lima, Peru, Dec. 2018
23. Instituto Geofísico del Perú, Aug. 2018
24. World Bank Group's Understanding Risk Forum, Mexico City, Mexico, Jun. 2018
25. University of California, Berkeley, PEER, Jul. 2016
26. Universidad Nacional de Ingeniería, Dept. de Ingeniería Civil, Lima, Peru, Mar. 2013
27. Universidad Nacional de Ingeniería, Dept. de Ingeniería Civil, Lima, Peru, Dec. 2014

Media Coverage

1. "Researchers raise concerns about critical issue with solar panels" at [The Cool Down](#), Aug. 2024
2. "Pineapple Expresses and rising seas are battering California's piers" at [Associate Press](#), Feb. 2024
3. "Collapses of infrastructure in New York City" ([Interview 1](#), [2](#), and [3](#)) at CBS News, May. 2023
4. "Approaches to manage flood risks after Hurricane Ida" in [an interview with News 12 Brooklyn](#), Sep. 2021
5. "A new technique predicts how quakes would affect a city's hospitals" in Stanford Engineering News, Oct. 2020
6. "Hospitals can coordinate to save lives after an earthquake" in Temblor Inc.'s articles, Nov. 2020
7. Featured in the CEO Update Newsletter of the Canterbury District Health Board for research on "Seismic Resilience of Hospital Systems" in New Zealand, Sep. 2017
8. Interviewed by Radio San Borja, in Lima, about seismic risk analysis and performance-based earthquake engineering, Dec. 2014
9. Interviewed by the Peruvian Association of Civil Engineers about state-of-the-art research on earthquake engineering in USA, Aug. 2014

Languages

Spanish (native language)
English (second language)

Professional Affiliations

American Society of Civil Engineers (ASCE)
Earthquake Engineering Research Institute (EERI)
Seismological Society of America (SSA)
Society for Risk Analysis (SRA)