

Pengfei Wang

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University of California, Los Angeles
Civil and Environmental Engineering Department
420 Westwood Plaza
Los Angeles, CA 90024

wltcwpf@ucla.edu
<https://wltcwpf.github.io>
Skype: [wltcwpf](#)
Phone: +1 (310) 706-1197

Education

University of California, Los Angeles

Ph.D., Civil Engineering, 2016-2020 (Expect).
M.S., Statistics, 2017-2020 (Expect).
M.S., Civil Engineering, 2015-2016

Tongji University, Shanghai, China

B.E., Transportation Engineering, 2011-2015.

Research Interests

Engineering Seismology, Geotechnical Earthquake Engineering, Applied Statistics

Dissertation

Ph.D. in Civil Engineering
“Analysis of Non-ergodic Site Response and its Prediction from Engineering Models”

M.S. in Statistics
“Geo-spatial Learning and Modeling for Seismic Site Responses in Los Angeles County”

Publications

Journal Articles

1. Brandenburg, S.J., Stewart, J.P., **Wang, P.**, Nweke, C.C., Hudson, K., Goulet, C.A., Meng, X., Davis, C.A., Ahdi, S.K., Hudson, M.B., Donnellan, A., Lyzenga, G., Pierce, M., Wang, J., Winters, M.A., Delisle, M.-P., Lucey, J., Kim, Y., Gallien, T.W., Lyda, A., Yeung, J.S., Issa, O., Buckreis, T., Yi, Z.. (2019). [Ground Deformation Data from GEER Investigations of Ridgecrest Earthquake Sequence](#). Seismological Research Letters. DOI: 10.1785/0220190291.
2. Zheng, N., Dantsuji, T., **Wang, P.**, Geroliminis, N.. (2017). [Macroscopic Approach for Optimizing Road Space Allocation of Bus Lanes in Multimodal Urban Networks Through Simulation Analysis](#). Journal of the Transportation Research Board, No. 2651, DOI: 10.3141/2651-05.

Conference Papers

1. **Wang, P.**, Stewart, J.P.. (2019). [Data-Derived Site Response and its Predictability Using Ergodic and Site-Specific Methods](#). Proceeding of SMIP2019 Seminar on Utilization of Strong Motion Data, California Strong Motion Instrumentation Program, UCLA, CA. October 18.
2. Stewart, J.P., **Wang, P.**, Teague, D.P., Vecchietti, A.. (2019). [Applications of non-ergodic site response in ground motion modeling](#). Proceeding of 7th International Conference on Earthquake Geotechnical Engineering (Invited Keynote), Rome, Italy. June 17-20, P: 51-70.

3. Nweke, C.C., **Wang, P.**, Brandenburg, S.J., Stewart, J.P.. (2018). [Reconsidering Basin Effects in Ergodic Site Response Models](#). Proceeding of SMIP2018 Seminar on Utilization of Strong Motion Data, California Strong Motion Instrumentation Program, Sacramento, CA. October 19.

Technical Reports

1. Stewart, J.P., Brandenburg, S.J., **Wang, P.**, Nweke, C.C., Hudson, K., Mazzoni, S., Bozorgnia, Y., Goulet, C.A., Hudnut, K.W., Davis, C.A., Adhi, S.K., Zareian, F., Fayaz, J., Koehler, R.D., Chupik, C., Pierce, I., Williams, A., Akciz, S., Hudson, M.B., Kishida, T.. (2019). [Preliminary Report on Engineering and Geological Effects of the July 2019 Ridgecrest Earthquake Sequence](#). Report No. GEER-064. DOI: 10.18118/G6H66K.
2. **Wang, P.**, Zimmaro, P., Ahdi, S.K., Kwak, D.Y., Stewart, J.P.. (2019). [Shear Wave Velocity Database and Its Application for Analysis of Non-Ergodic Site Amplification Effects](#). U.S. Geological Survey, Report No. G17AP00018.
3. Kayen, R., Wham, B., Grant, A., Atsushi, M., Anderson, D., Zimmaro, P., **Wang, P.**, Tsai, Y.T., Bachhuber, J., Madugo, C., Sun, J., Hitchcock, C., Motto, M.. (2019). [Seismological, Geological, and Geotechnical Engineering Aspects of the 2018 Magnitude 6.6 Hokkaido Eastern Ibari Earthquake](#). Report No. GEER-060. DOI: 10.18118/G6CM1K.
4. **Wang, P.**, Stewart, J. P., Bozorgina, Y., Boore, D. M., Kishida, T. (2017). [“R” Package for Computation of Earthquake Ground Motion Response Spectra](#). Report No. 2017/09. PEER, UC Berkeley.

Teaching Experience **Civil Engineering, UCLA**

TA, Design of Foundations and Earth Structures, Winter 2019-20
TA, Principles of Soil Mechanics, Fall 2016.

Statistics, UCLA

TA, Introduction to Monte Carlo Methods, Fall 2019.
Reader, Introduction to Statistics, Summer 2020

Languages and Skills

English (proficient), Chinese (native)
R, Python, Matlab, MySQL, \LaTeX

References

Jonathan P. Stewart (Ph.D. advisor)
Civil and Environmental Engineering
UCLA
jstewart@seas.ucla.edu, +1 (310) 206-2990

Scott J. Brandenburg
Civil and Environmental Engineering
UCLA
sjbrandenberg@ucla.edu, +1 (310) 825-9819

Frederic (Rick) Paik Schoenberg
Statistics
UCLA
frederic@stat.ucla.edu, +1 (424) 280-6118

Yousef Bozorgnia
Civil and Environmental Engineering
UCLA
yousef.bozorgnia@ucla.edu, +1 (310) 825-9254