Publications of Dr. Sanjay Singh Bora

Peer Reviewed

1. Mayor, J. **S.S. Bora**, F. Cotton (2017). Capturing regional variations of heard-rock κ from coda analysis. Accepted in *Bulletin of Seismological Society of America*.
2. **Bora, S.S.** F. Cotton, F. Scherbaum, B. Edwards, P. Traversa (2017). Stochastic source, path and site attenuation parameters and associated variabilities for shallow crustal European earthquakes. Bulletin of Earthquake Engineering, doi: 10.1007/s10518-017-0167-x.
3. **Bora, S.S.**, F. Scherbaum, N. Kuehn, P. Stafford (2016). On the Relationship between Fourier and Response Spectra: Implications for the Adjustment of Empirical Ground Motion Prediction Equations. *Bulletin of the Seismological Society of America, Accepted for publication*, doi: 10.1785/0120150129
4. **Bora, S.S.**, F. Scherbaum, N. Kuehn, P. Stafford, B. Edwards (2015). Development of a Response Spectral Ground-Motion Prediction Equation (GMPE) for Seismic Hazard Analysis from Empirical Fourier Spectral and Duration Models. *Bulletin of the Seismological Society of America*, 105(4), 2192-2218
5. Gianniotis, N. C. Schnoerr, C. Molkenthin, and **S.S. Bora** (2015). Approximate variational inference based on a finite sample of Gaussian latent variables. *Formal Pattern Analysis and Applocations*, doi:10.1007/s10044-015-0496-9.
6. **Bora, S.S.**, F. Scherbaum, N. Kuehn, P. Stafford (2014). Fourier Spectral and Duration Models for the Generation of Response Spectra which are Adjustable to Different Source-, Propagation-, and Site Effects. *Bulletin of Earthquake Engineering*, 12(1): 467-493.
7. Douglas, J., S. Akkar, G. Ameri, P. Bard, D. Bindi, J.J. Bommer, **S.S. Bora**, F. Cotton, B. Derras, M. Hermkes, N. Kuehn, L. Luzi, M. Massa, F. Pacor, C. Riggelsen, A. Sandikkaya, F. Scherbaum, P.J. Stafford, and P. Traversa (2014). Comparisons among the five ground-motion models developed using RESORCE for the prediction of response spectral accelerations due to earthquakes in Europe and the Middle East. *Bulletin of Earthquake Engineering*, 12(1): 341-358.

Selected recent conference proceedings

8. **Bora, S.S.,** F. Cotton, J. Mayor. Capturing the source and site high frequency attenuation properties (κ), (Oral) **Invited,** *SSA Annual meeting-2017*, Oral, Denver in USA.
9. **Bora, S.S.,** F. Cotton and F. Scherbaum. NGA-West2 empirical Fourier and duration models for active crustal regions to generate adjustable response spectra, SSA Annual meeting-2017 **Oral**, Denver, USA.

10. **Bora, S.S.,** F. Cotton, F. Scherbaum and N. Kuehn. NGA-West2 Fourier and duration models for active crustal regions, *AGU Fall meeting-2016*, **Oral**, San Francisco, USA.

11. **Bora, S.S.**, F. Scherbaum, N. Kuehn, P. Stafford. On the Relationship between Fourier and Response Spectra: Implications for the Adjustment of Empirical Ground Motion Prediction Equations. **Poster,** *General Assembly European Geosciences Union* (Vienna, Austria April, 2016).

12. **Bora, S.S.**, F. Scherbaum, N. Kuehn, P. Stafford, B. Edwards. Regionally Adaptable Ground Motion Prediction Equation (GMPE) from Empirical Models of Fourier Spectra and Duration of Ground Motion. **Poster,** *General Assembly European Geosciences Union* (Vienna, Austria April, 2016).

13. **Bora, S.S.**, F. Scherbaum, N. Kuehn, P. Stafford, B. Edwards. Development of Response Spectral Ground Motion Prediction Equation from Empirical Models for Fourier Spectra and Duration of Ground Motion. **Poster,** *AGU Fall Meeting* (San Francisco, U.S.A., December, 2014).

14. **Bora, S.S.**, F. Scherbaum, N. Kuehn, P. Stafford, B. Edwards. A New Perspective towards the Generation of Response Spectral Ground Motion Prediction Equation for Seismic Hazard Analysis. **Poster,** *Seismological Society of America (SSA) Annual Meeting* (Anchorage, U.S.A., May, 2014).

15. **Bora, S.S.**, F. Scherbaum, N. Kuehn, P. Stafford. Fourier Spectral and Duration Models for the Generation of Response Spectra Adjustable to Different Source-, Propagation-, and Site Effects. **Poster,** *Seismological Society of America (SSA) Annual Meeting* (Salt Lake City, U.S.A., April, 2013).