

Publications of Dr. Sanjay Singh Bora

Peer-reviewed:

1. Bard, P.-Y., **S.S. Bora**, F. Hollender, A. Laurendeau, P. Traversa (2019). Are the standard Vs–Kappa Host-to-Target Adjustments the only way to get consistent hard-rock ground motion prediction? *Pure and Applied Geophysics*, **Accepted**.
2. **Bora, S.S.**, F. Cotton, F. Scherbaum (2019). NGA-West2 Empirical Fourier and Duration Models to Generate Adjustable Response Spectra, *Earthquake Spectra*, 35 (1), 61–93.
3. Mayor, J. **S.S. Bora**, F. Cotton (2018). Capturing regional variations of hard-rock κ from coda analysis. *Bulletin of Seismological Society of America*, 108(1), 390–408.
4. **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*, 15(11), 4531–4561.
5. **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*, 106 (3), 1235–1253.
6. **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.
7. Gianniotis, N. C. Schnoerr, C. Molkenhain, and **S.S. Bora** (2015). Approximate variational inference based on a finite sample of Gaussian latent variables. *Formal Pattern Analysis and Applications*, 19 (2), 475–485.
8. **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.
9. 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 Conference Proceedings:

1. **Bora, S.S.**, W. Imperatori, P. Bergamo, D., Fäh (2018). Challenges in earthquake ground-motion prediction for Switzerland. Swiss Geoscience Meeting-2018, Poster, Bern, Switzerland.
2. **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.
3. **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.
4. **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.
5. **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).
6. **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).
7. **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).
8. 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).
9. 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).