

Visualizing Earthquake Simulation Data

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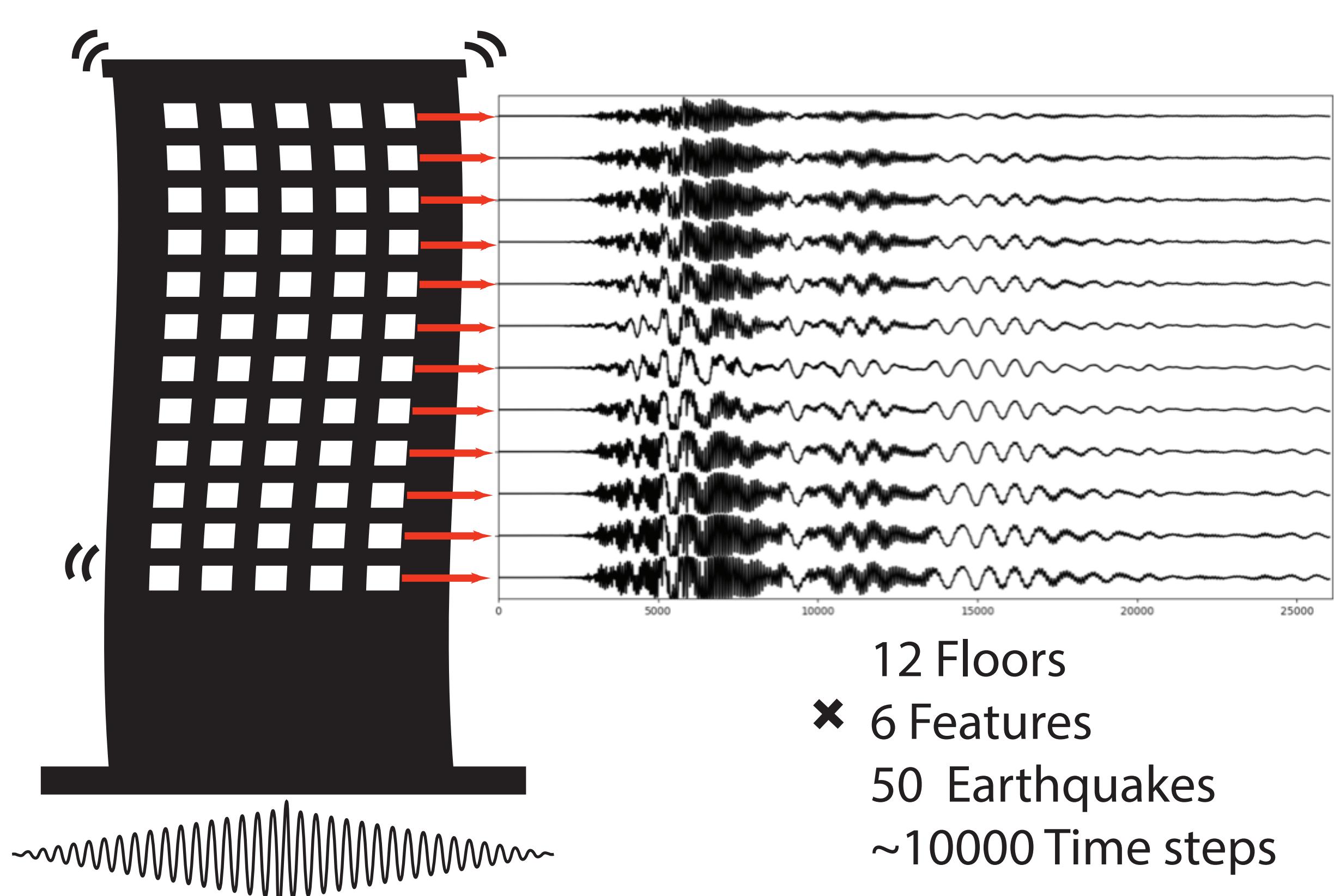
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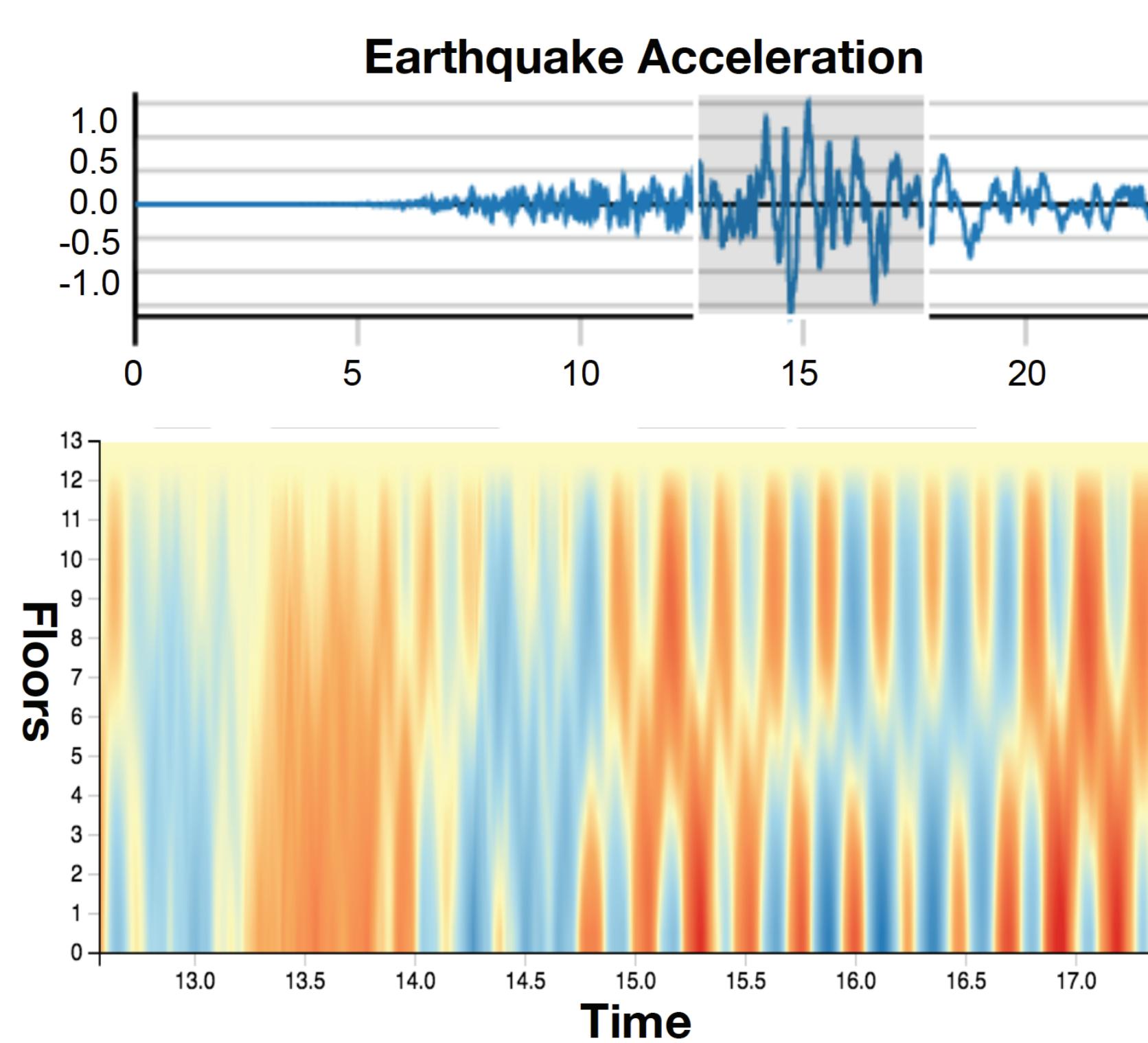
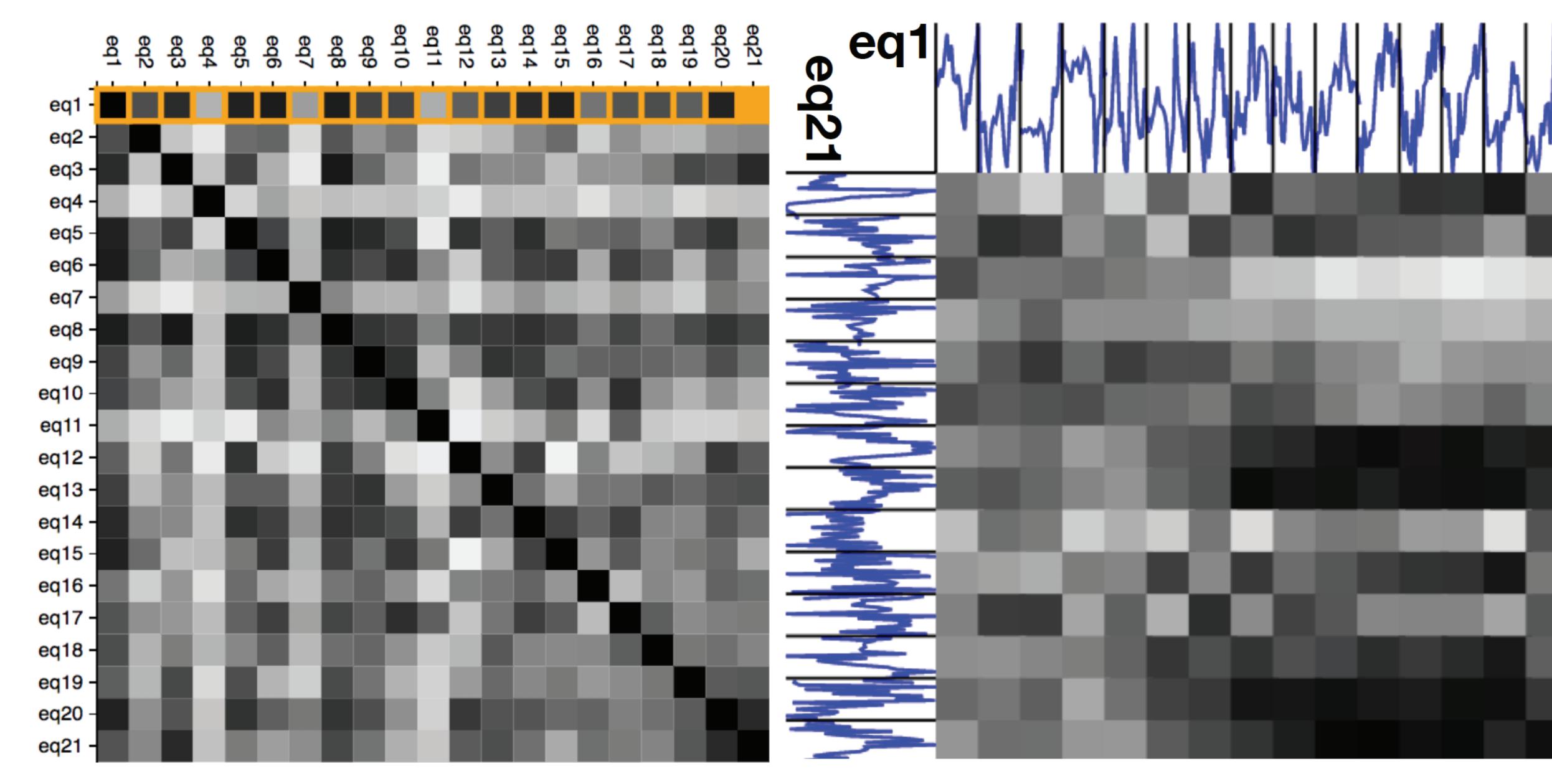
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Dataset



Partial views are insufficient!



References

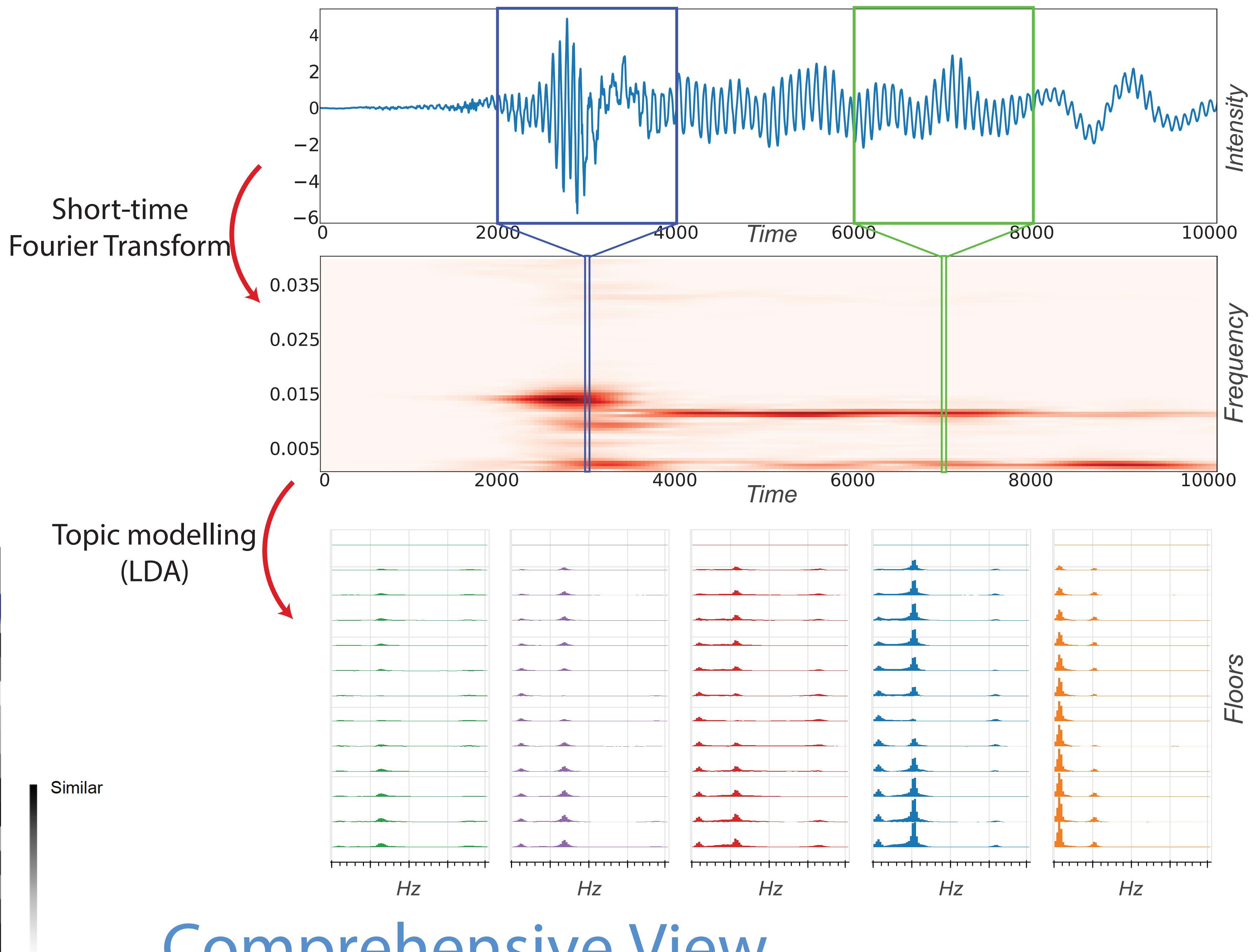
[1] Blei, David M., Andrew Y. Ng, and Michael I. Jordan. "Latent dirichlet allocation." Journal of machine Learning research 3.Jan (2003): 993-1022.

[2] Rodriguez ME, Restrepo JI, Blandon JJ. "Seismic design forces for rigid floor diaphragms in precast concrete building structures." Journal of Structural Engineering 2007; 133(11):1604–1615.

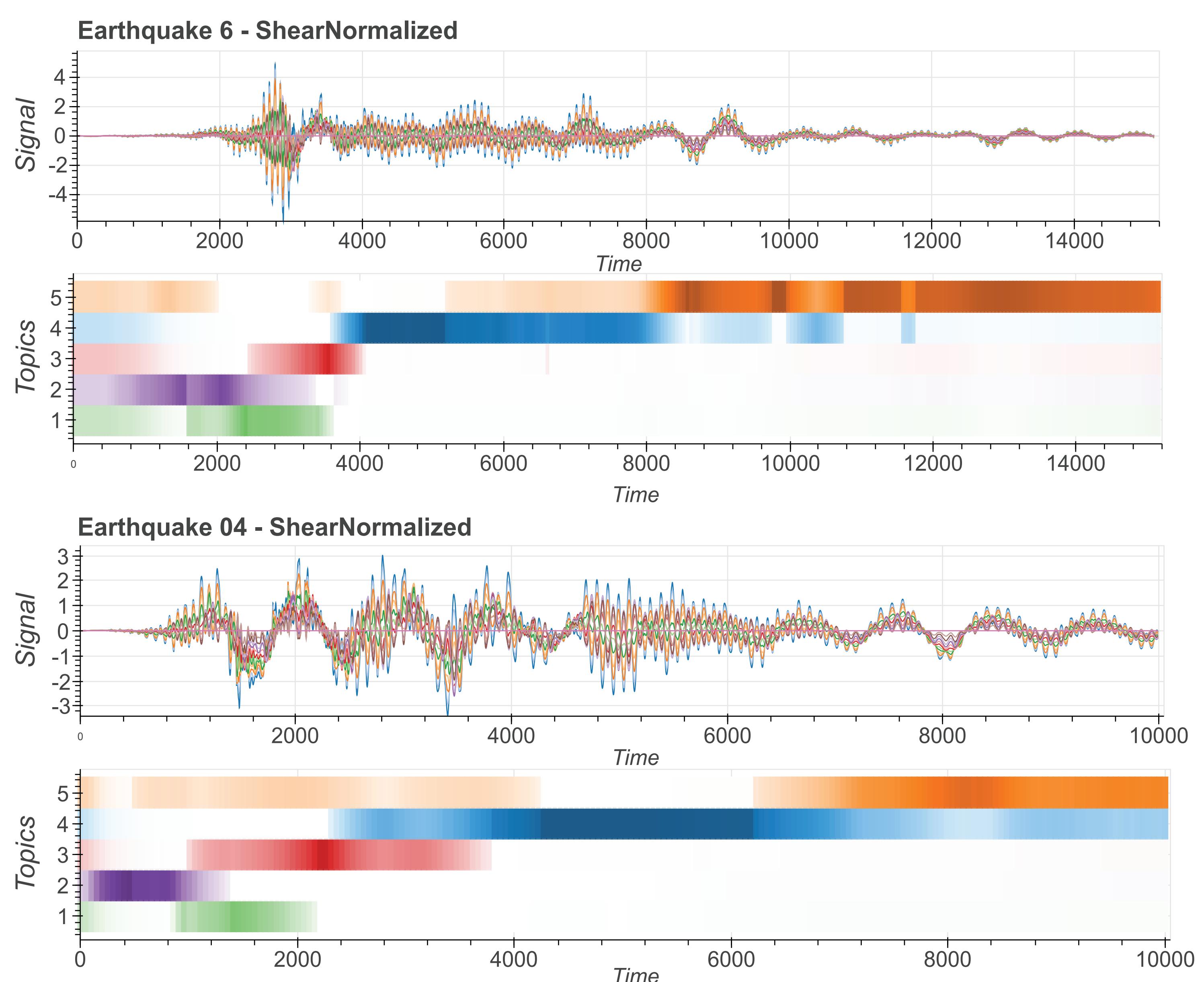
Time-varying multi-signal topic patterns

Our methodology applies topic modelling to the context of signal analysis where: words are frequencies and documents are multi-signal segments.

Methodology



Comprehensive View



Ongoing Work

Dealing with scale, topic-based interactive queries, topic-mixture clustering.