

Visualizing Earthquake Simulation Data

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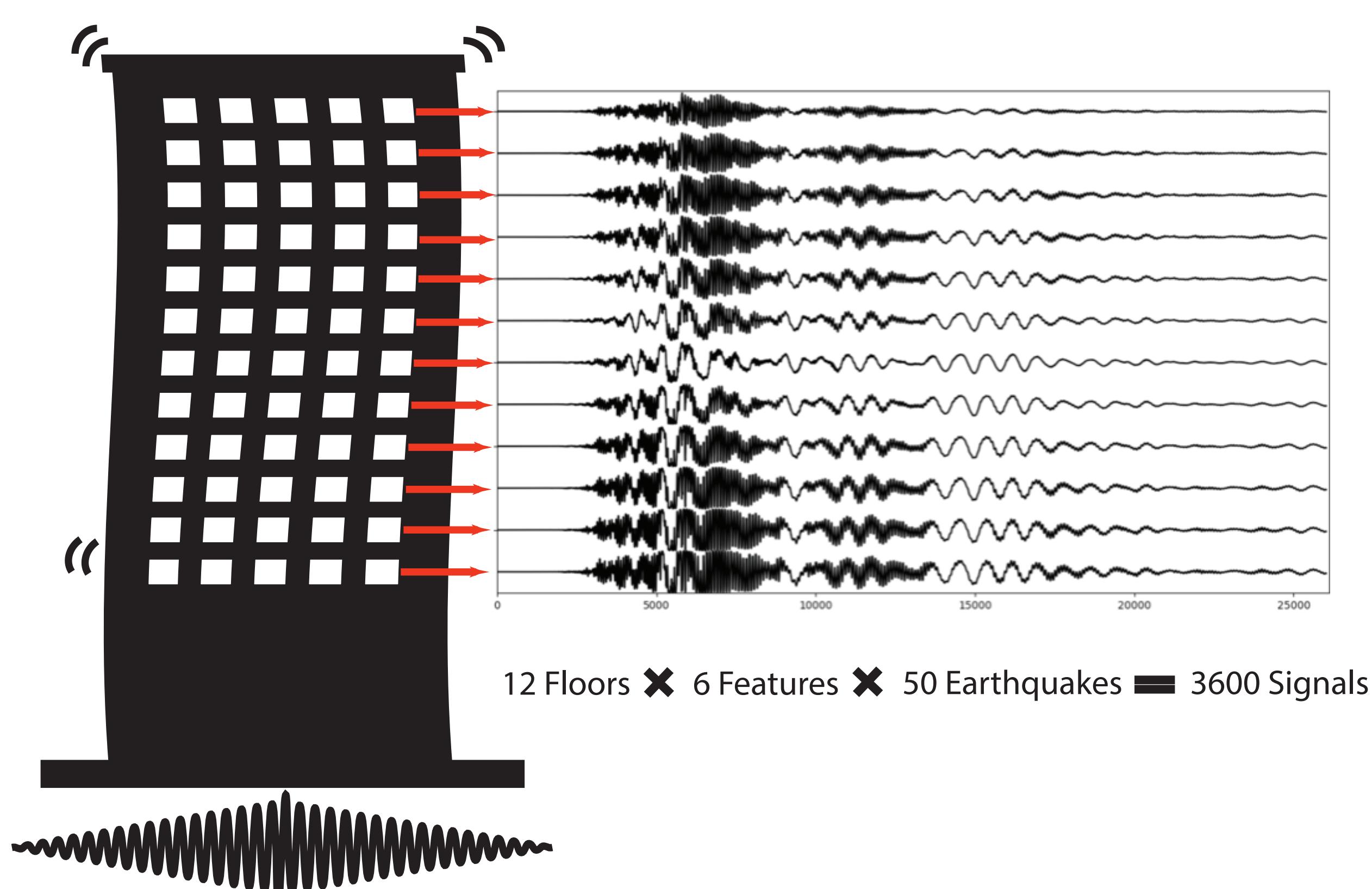
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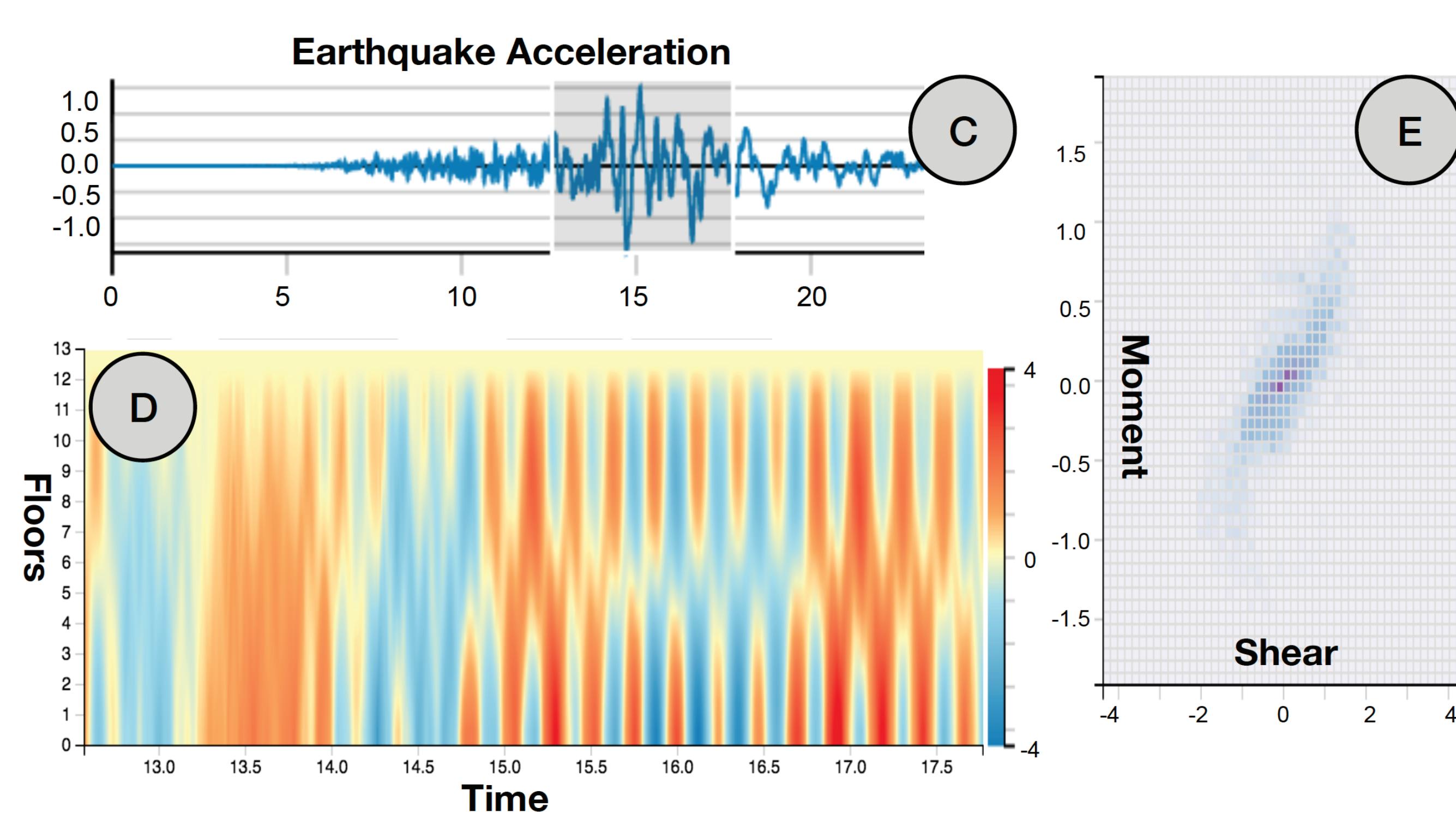
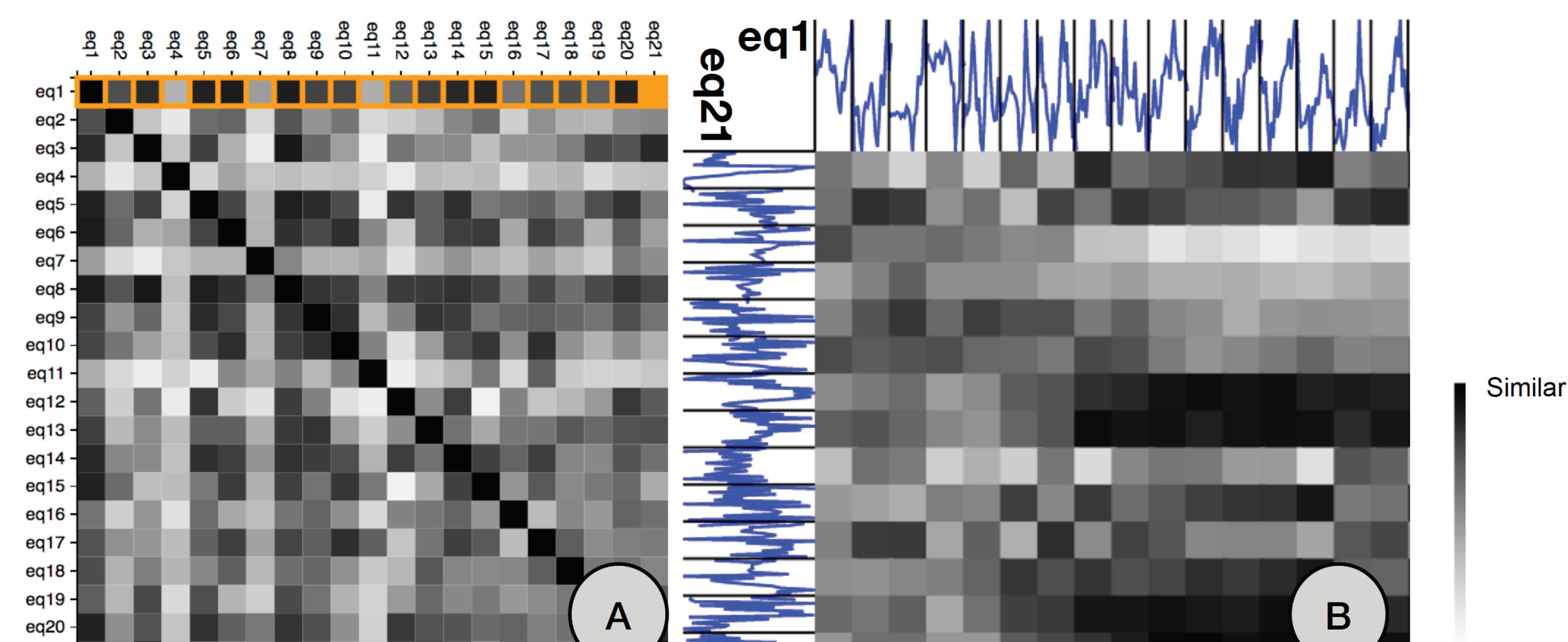
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Problem



Partial Visualizations



A Earthquake X Earthquake

B Motif X Motif

C Time X Acceleration

D Time X Floor

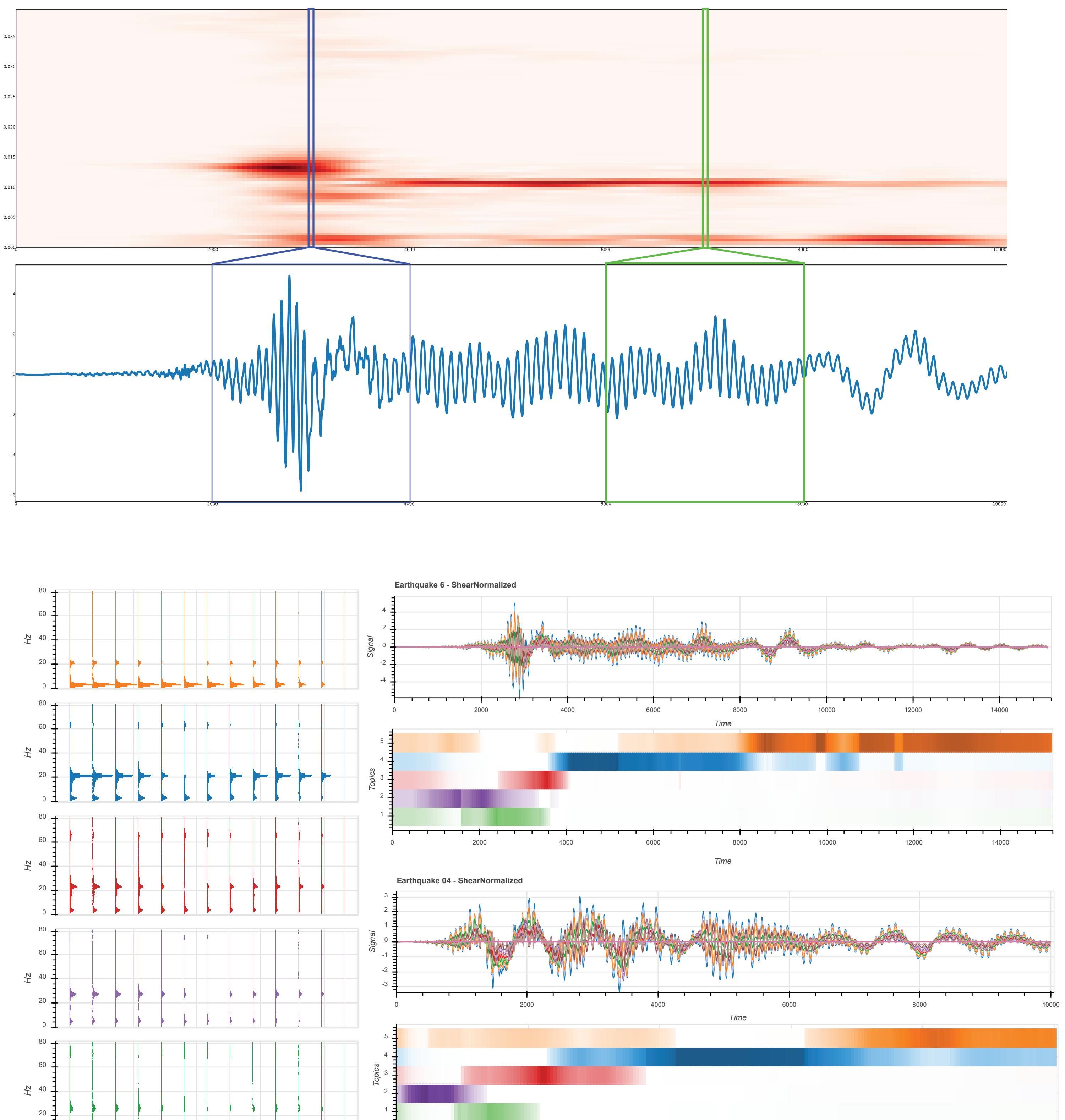
E Feature X Feature

Topic modelling identifies
time-varying multisignal evolution!

Our methodology applies topic modelling to the context of signal analysis where:

- Words are frequencies
- Documents are multi-signal segments

Comprehensive Visualization



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.