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Statistical models for brain signals with properties that evolve across trials

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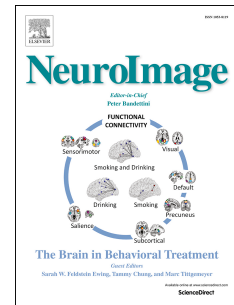
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# Supplementary Material: Statistical Models for Brain Signals With Properties that Evolve Across Trials

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This supplementary section contains additional analysis of the data from Subjects 5, 6, 7 and 8. We present time-trial plots of dynamic connectivity states and state-dependent PDC in Figure S1-S2, and time-trial plots of coherence in Figure S3-S4. In Figure S2, we also present results on the time-trial plots of coherence between three other pairs of channels for Subjects 1, 2, 3 and 4.

## 1 Supplementary Figures

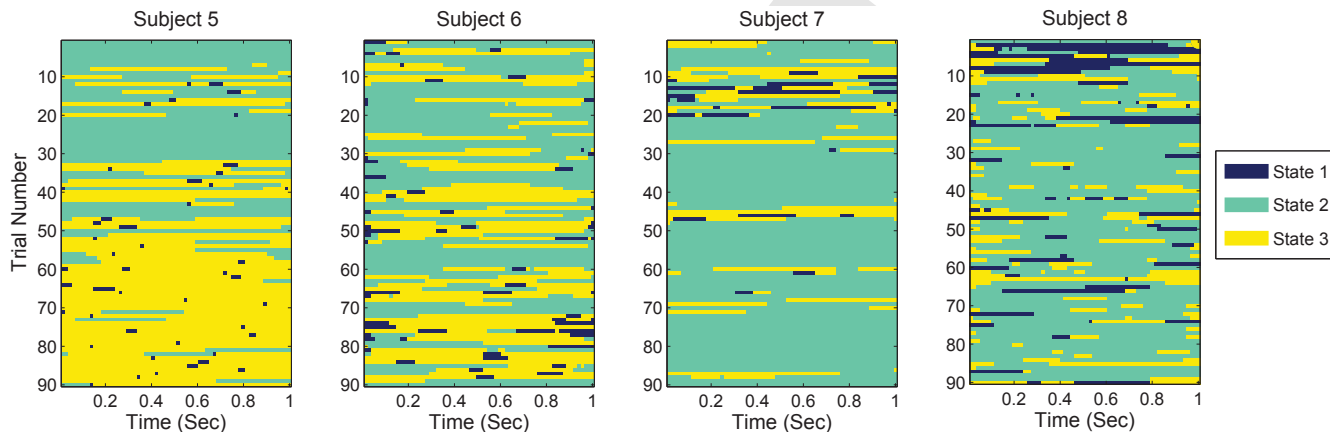


Figure S1: Time-trial plots of dynamic connectivity states in EEG trials during selective attention for other four subjects, estimated using a three-state MS-VAR(2) model.

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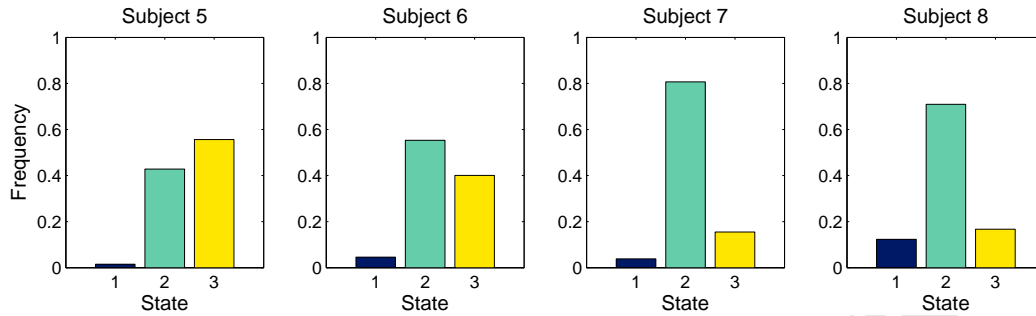


Figure S2: Frequency of time points spent in each state for each subject.

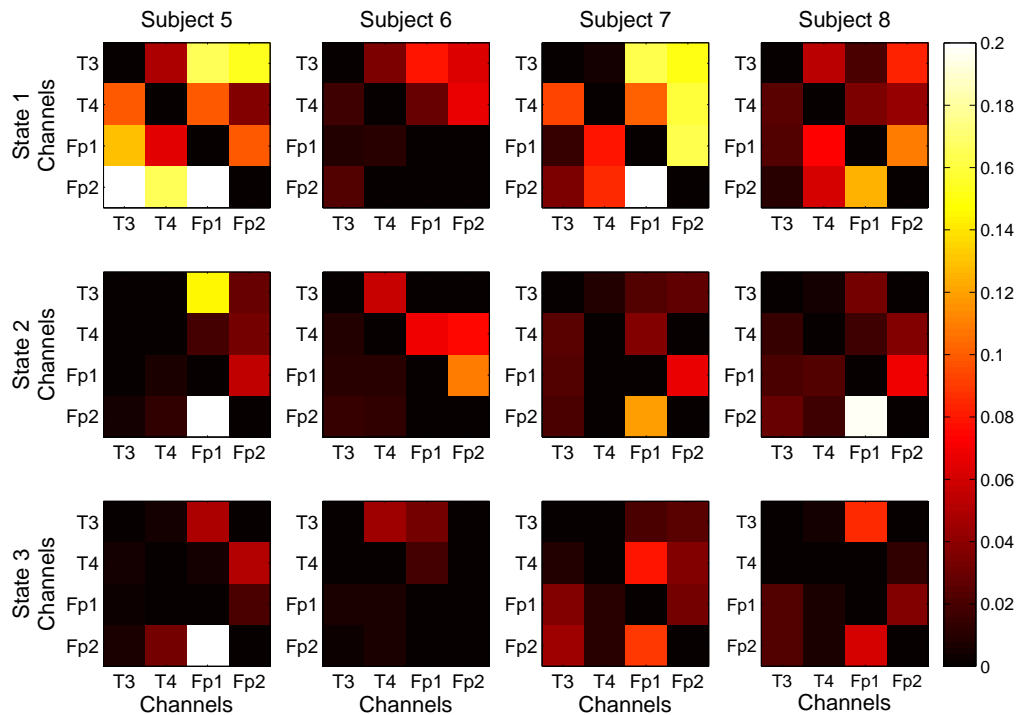


Figure S3: Estimated state-specific PDC between four EEG channels for other four subjects, averaged over the frequency band 1-50Hz.

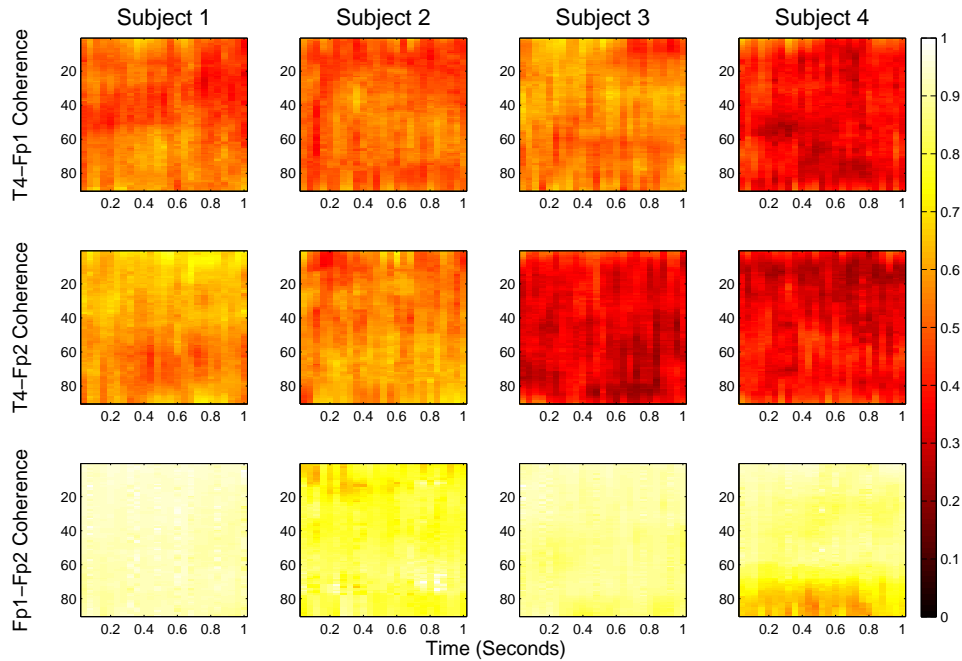


Figure S4: Time-trial plots of the coherence between the other EEG channel pairs (along the rows) for four subjects (across the columns).

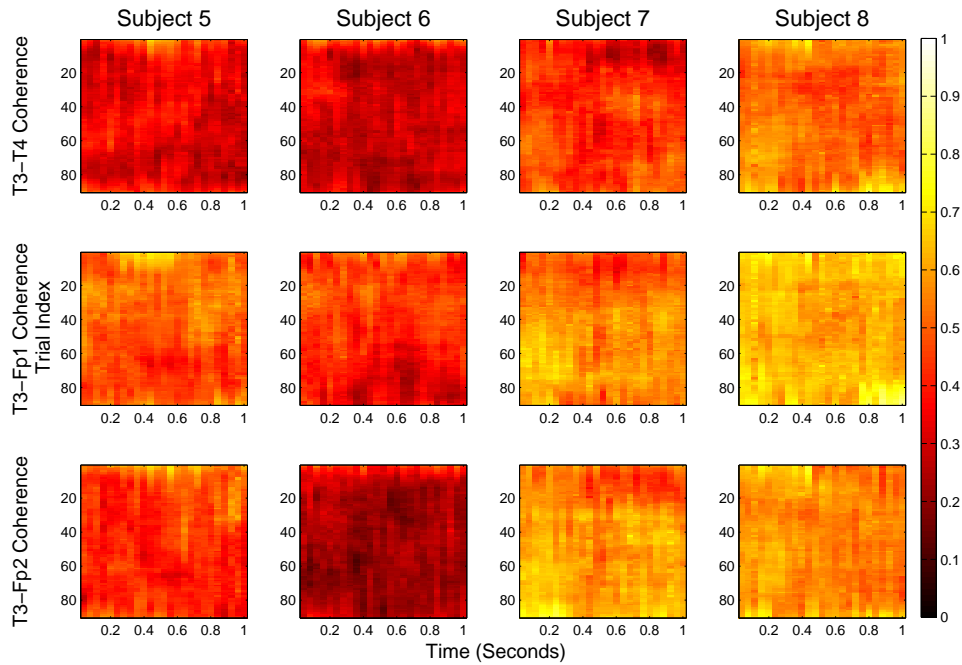


Figure S5: Time-trial plots of the coherence between select EEG channel pairs (along the rows) for the other four subjects (across the columns).

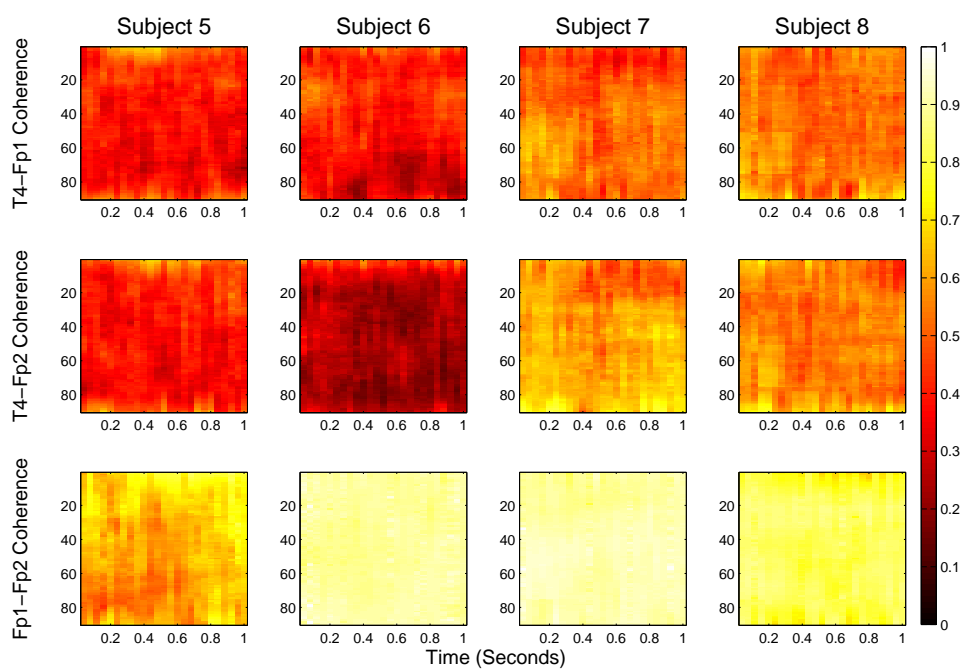


Figure S6: Time-trial plots of the coherence between the other EEG channel pairs (along the rows) for the other four subjects (across the columns).