Participant Demographics and Working Memory Performance

File: Behavioral Data.xlsx

Sheet 1 (Demographics, Hits, and FAs) lists the Sex, Age, Titrated Load used in the session, and the Overall Hits and False Alarm Rates for each condition. The Hits and False alarm rates are computed for the whole five minutes of each condition.

Sheet 2 (Delta Accuracy) lists the raw beginning Accuracy (0 – 1.5 min), ending Accuracy (3.5 min – 5 min), and the resulting change is accuracy. The raw delta accuracy values were bootstrapped 100 times to create Figure 3 in the paper.

Connectivity Networks

File: Connectivity_Networks.mat

The Connectivity_Networks.mat file includes all the PLV connectivity networks used in the paper. The variables are named:

> *PLV_Epoch_#_Band*
>
> Epoch: either Maintenance (M) or Retrieval (R)
>
> #: Condition (1 – None, 2 – Pure Tone, 3 – Classical Music, 4 – 5Hz BB, 5 – 10Hz BB, 6 – 15Hz BB)
>
> Band: theta, alpha, beta, gamma

The dimensions of each variable is M x N x N where M is the total number of networks computed from all the subjects. N is the number of EEG channels. For example, PLV_M _1_Alpha is 746 x 16 x 16, so the statistical analysis were computed on the 746 16x16 connectivity networks.