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November 25, 2020 at 14:11:07
N=89 on FS atlas for 7 narrow-band oscillatory windows associate with accompanying social personality & cognitive features Graphs.

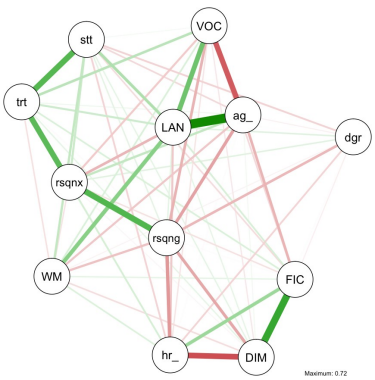
Note source image plots degree. Correlations computed on nx shortest paths.

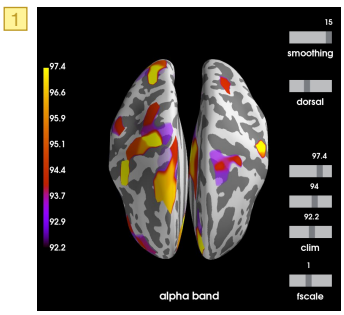
## alpha

| | | NxLap | WM | LANG | VOCAB | DIM | FIC | traitanxiety | stateanxiety | rsqanxiety | rsqanger | hours_wk |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NxLap | r | — | | | | | | | | | | |
| WM | r | 0.01** | — | | | | | | | | | |
| LANG | r | 0.06*** | 0.42*** | — | | | | | | | | |
| VOCAB | r | 0.05*** | 0.32*** | 0.51*** | — | | | | | | | |
| DIM | r | 0.06*** | 0.04*** | 0.22*** | 0.08*** | — | | | | | | |
| FIC | r | 0.00 | 0.12*** | 0.17*** | 0.03*** | 0.54*** | — | | | | | |
| traitanxiety | r | -0.06*** | 0.00 | 0.24*** | 0.16*** | 0.10*** | 0.04*** | — | | | | |
| stateanxiety | r | -0.10*** | 0.14*** | 0.34*** | 0.19*** | 0.11*** | -0.02*** | 0.62*** | — | | | |
| rsqanxiety | r | -0.07*** | -0.24*** | -0.14*** | -0.20*** | -0.10*** | -0.17*** | 0.53*** | 0.39*** | — | | |
| rsqanger | r | -0.16*** | -0.28*** | -0.13*** | -0.26*** | -0.18*** | -0.21*** | 0.29*** | 0.26*** | 0.62*** | — | |
| hours_wk | r | -0.07*** | 0.09*** | -0.17*** | -0.05*** | -0.34*** | 0.04*** | -0.14*** | -0.22*** | -0.18*** | -0.24*** | — |

*Note.* Controlling for age_yr
*Note.* Two-tailed significance: * p < .05, ** p < .01, *** p < .001

### Gaussian Graphical Model




✱ Given these Graphs is it possible to create DAGs? e.g. given strong correlations amongst cognitives [FIC, DIM] and social [rsqang], and between functional connectivity [shortest-path] and rsqang then by hypothesis modulating anger via DIM task(s) should lead to changes in resting global alpha. Thoughts?