

# Spatial attention not affected by tACS: a registered report

Alex Jones & Jon Silas



Jones, Silas & Ward

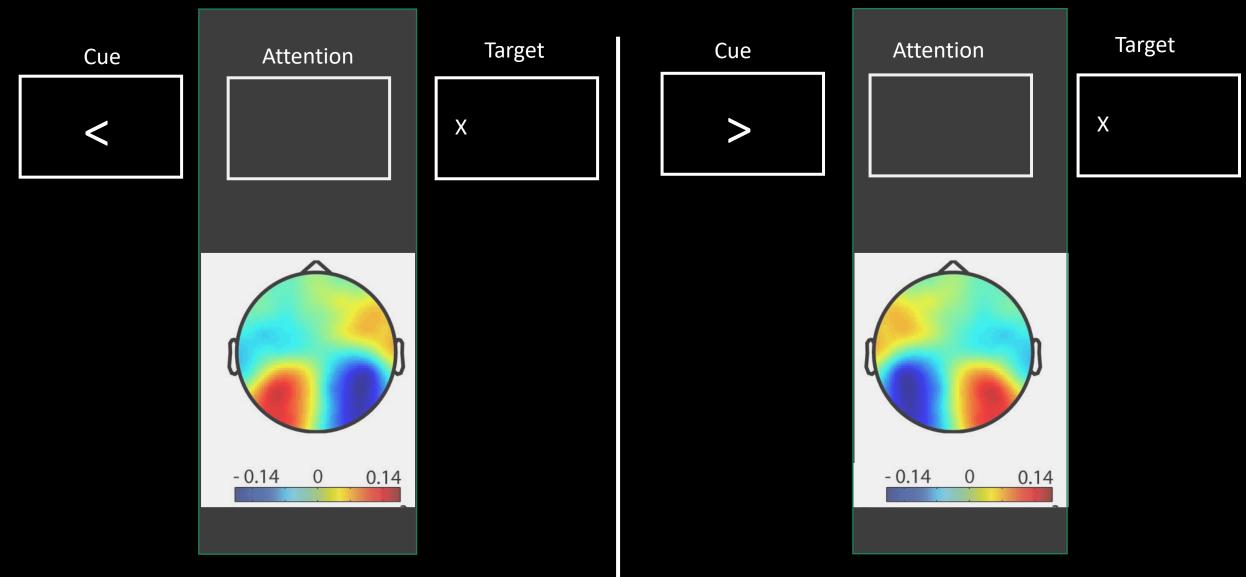
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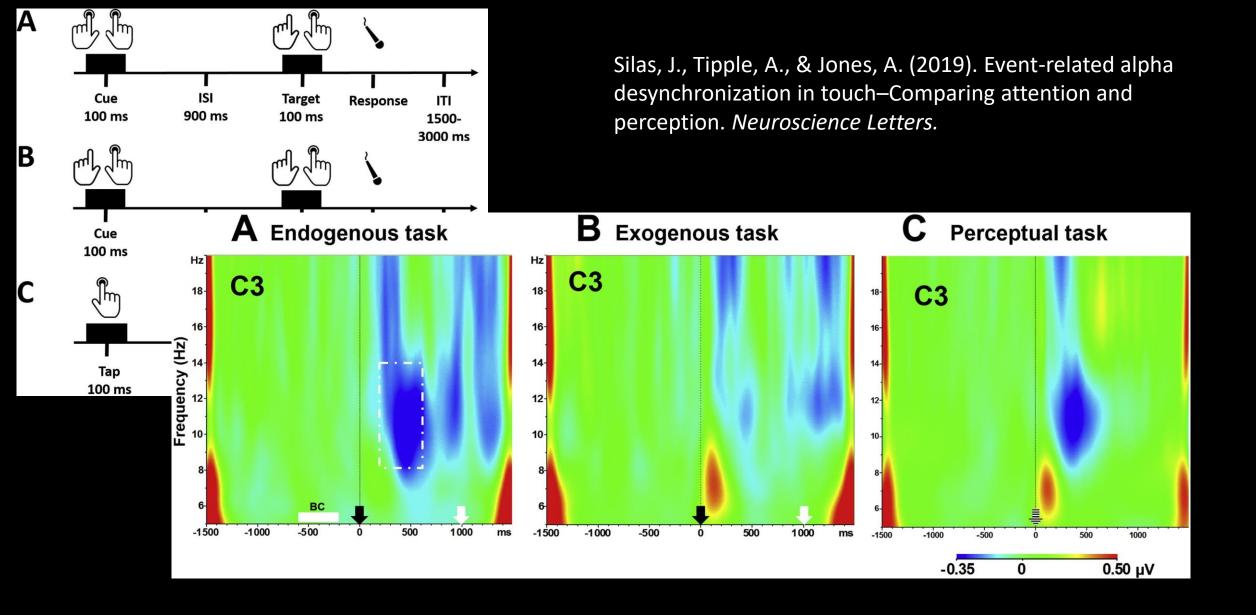


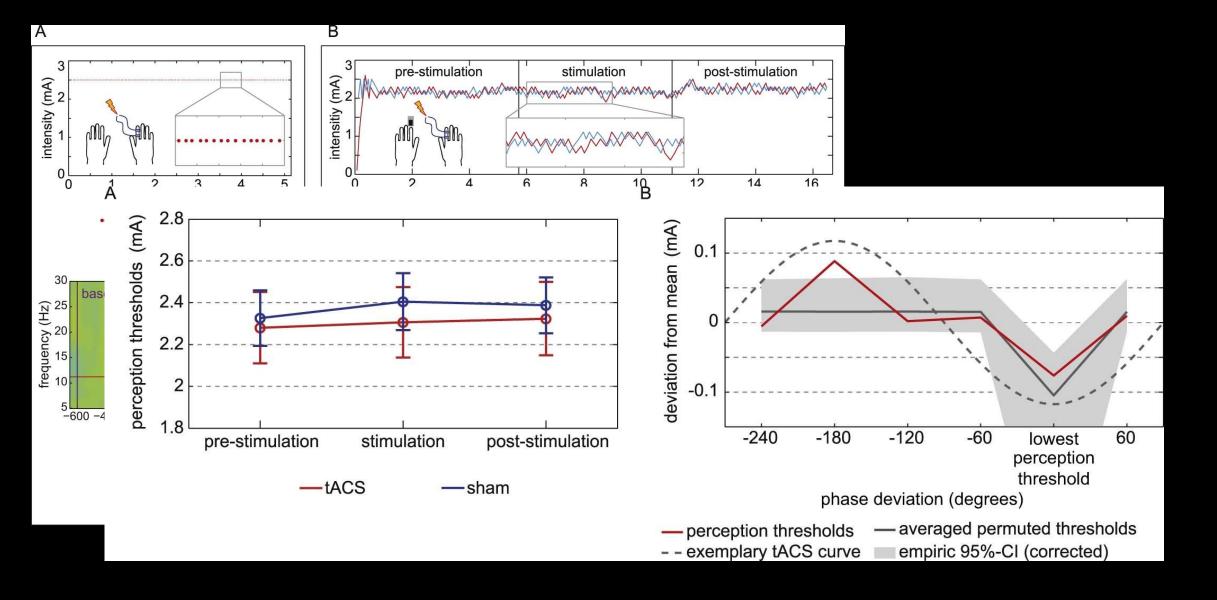


## Alpha & attention



Van Diepen, Mazaheri & Geng (2016)

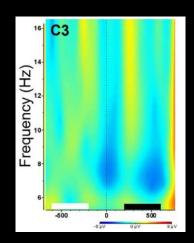




Gundlach et al. (2016). Phasic modulation of human somatosensory perception by transcranially applied oscillating currents. Brain stimulation.

EEG: Individual alpha frequency

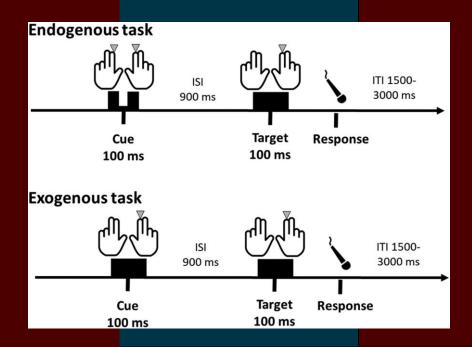


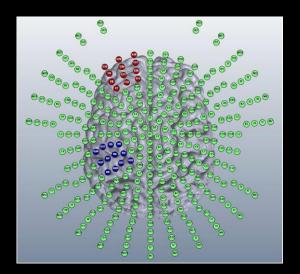


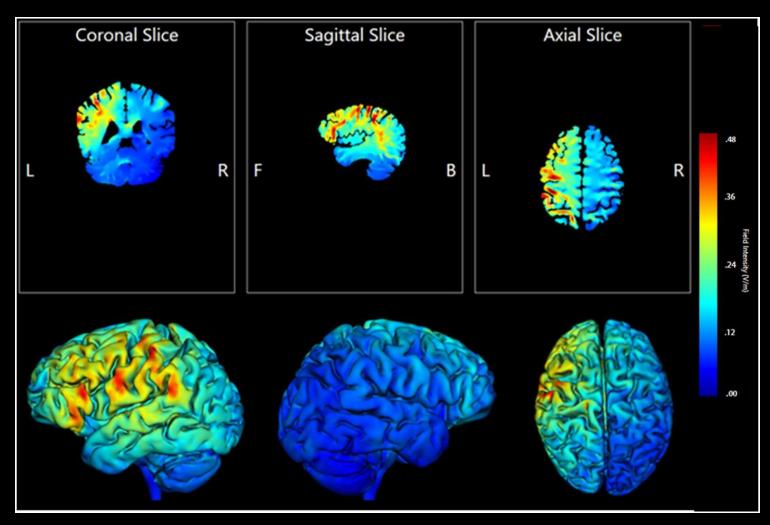
#### ALPHA BETA SHAM



tACS: Endogenous & Tactile Attention tACS: Endogenous & Tactile Attention tACS: Endogenous & Tactile Attention









## Pre-registration

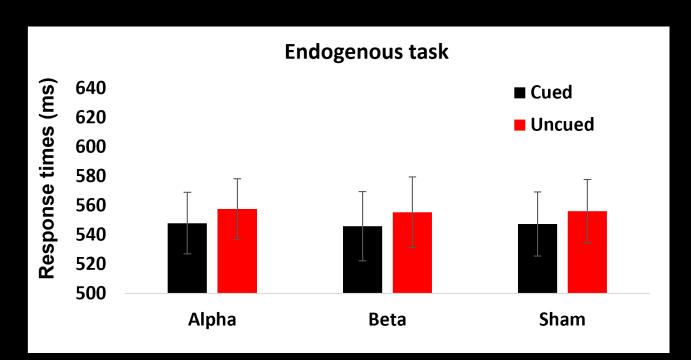
### Sample size estimation

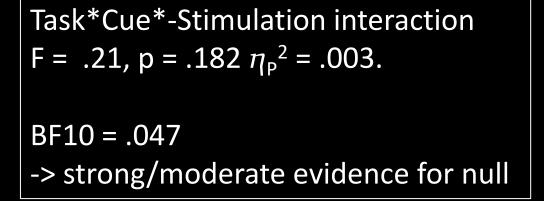
- Powering critical effect of interest = 43
- Powering smallest effect of interest = 56
- Modelling sample size based on pilot data = 77

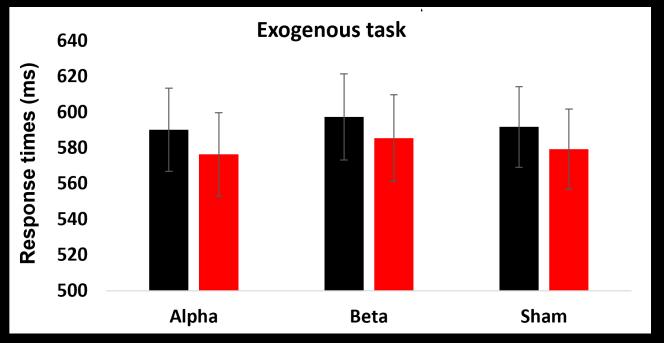


#### Design

- One sham
- One sham + one control

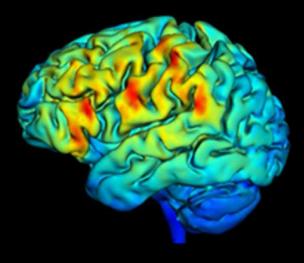


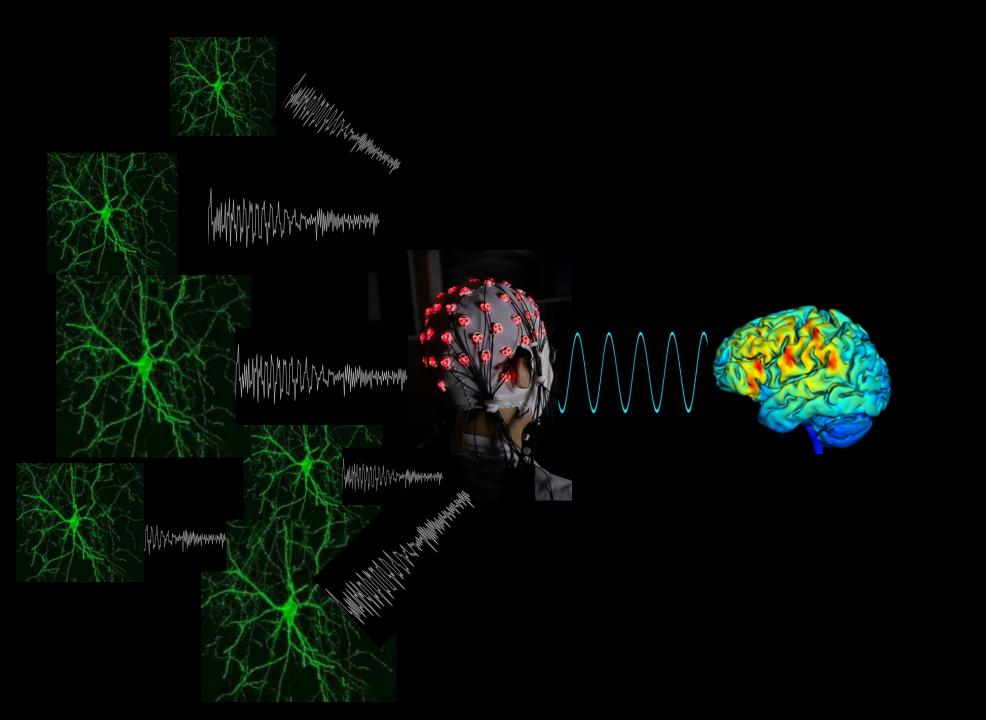












## Thanks



Wayne Anderson



Kielan Yarrow



Jones, Silas & Ward

Lab





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