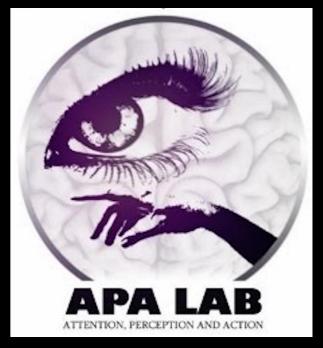
The Effects of Cerebellar Transcranial Direct **Current Stimulation** (tDCS) on Voluntary **Covert Attention**

Nadia Botha Supervisor: Dr. Chris Striemer

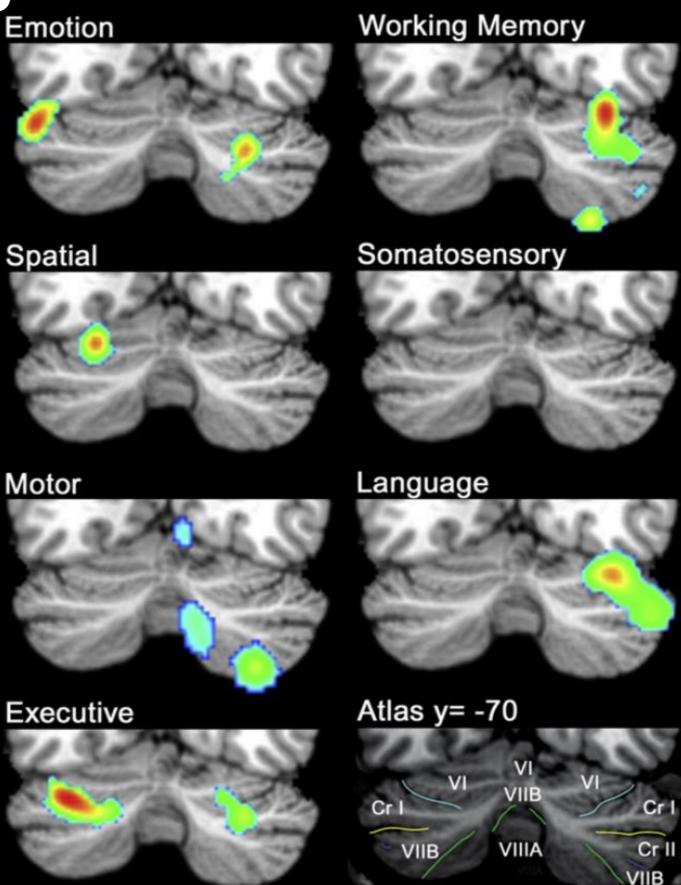


The Cerebellum



Imaging Studies

 Functional topography of higher cognitive functions



Stoodley & Schmahmann (2008)

Voluntary Covert
Attention

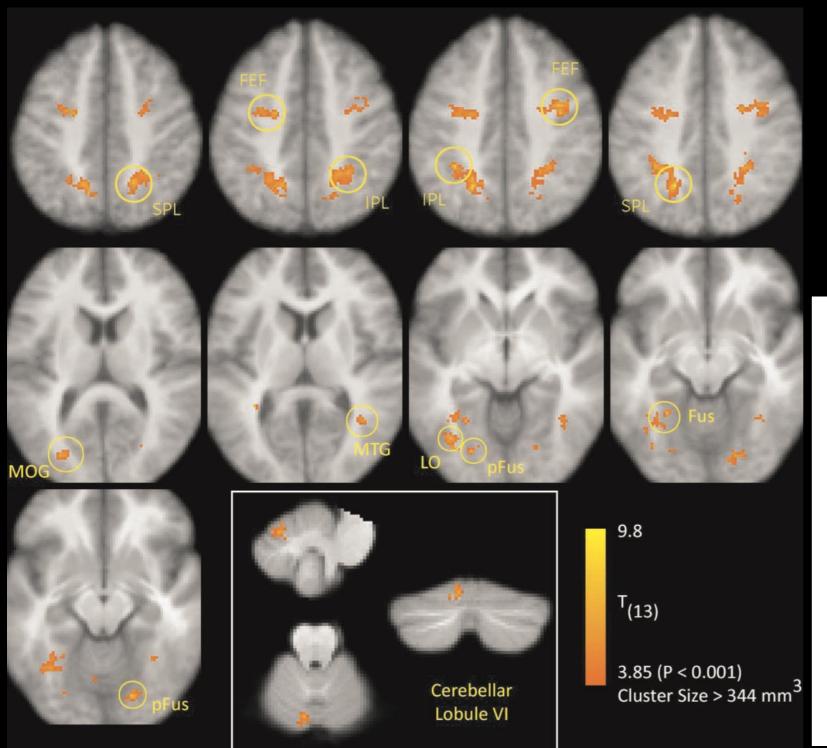
Overt vs.Covert

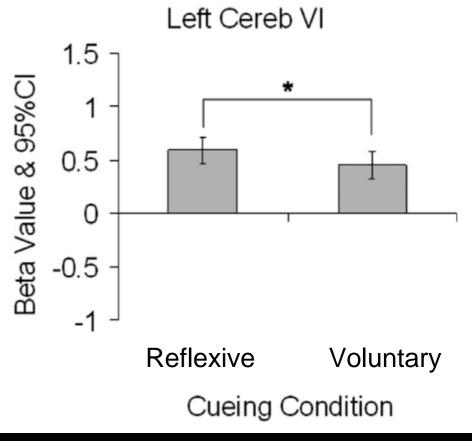
Voluntary vs.
 Reflexive



Imaging Studies

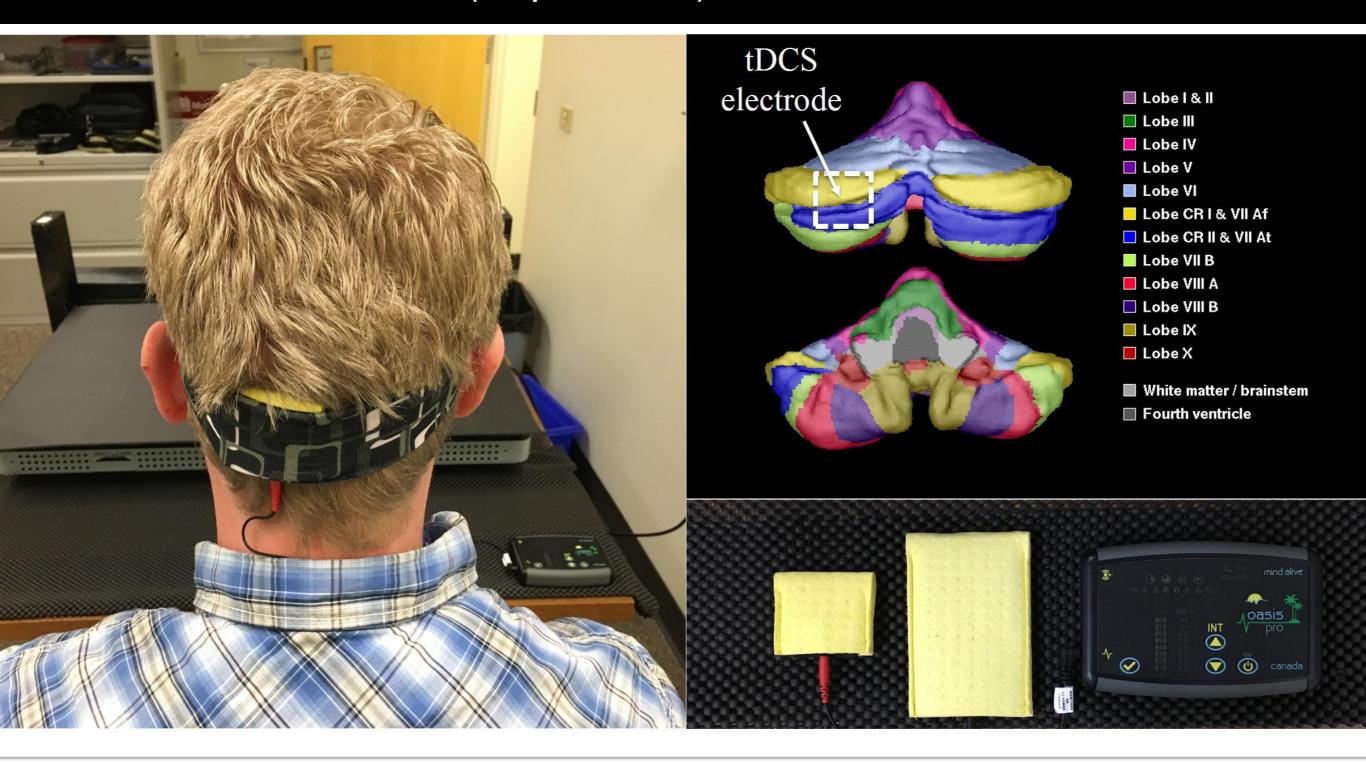
Striemer, Chouinard, Goodale & de Ribaupierre (2015)



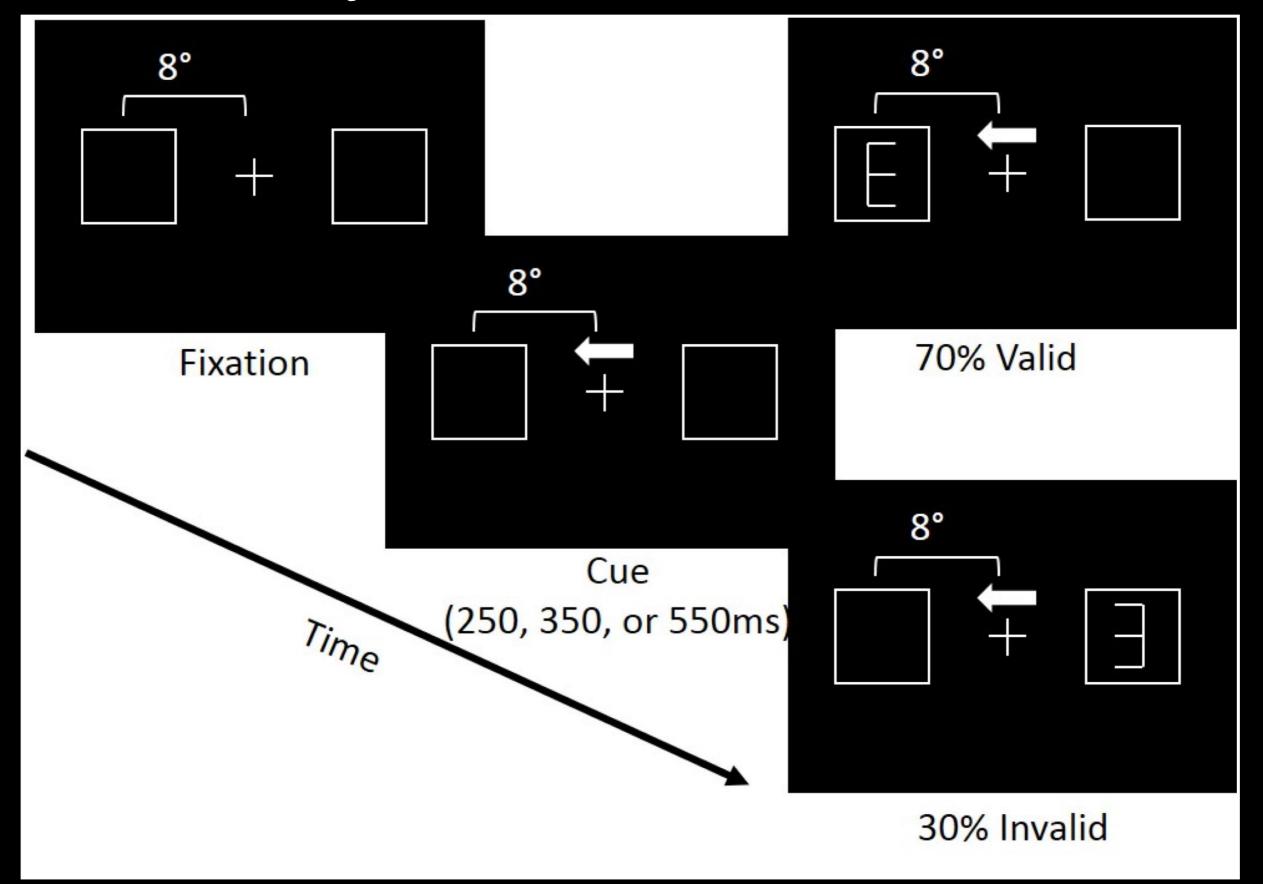


tDCS and the Cerebellum

- Anodal (+), Cathodal (-), Sham
- 20 minutes, 2mA (Pope, 2015)

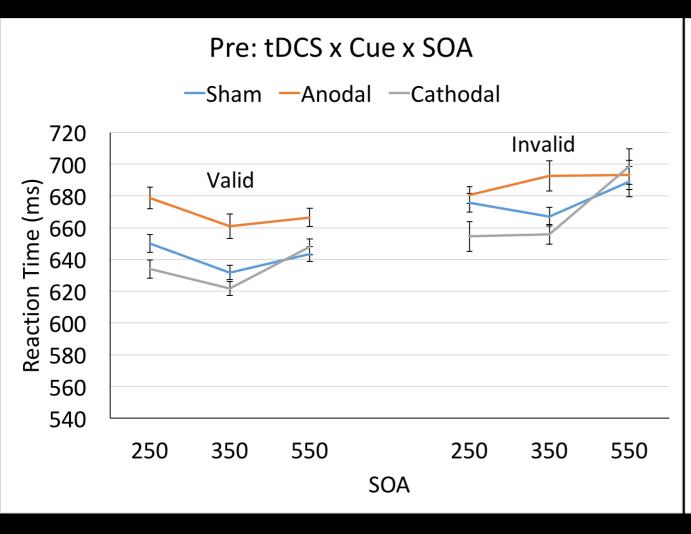


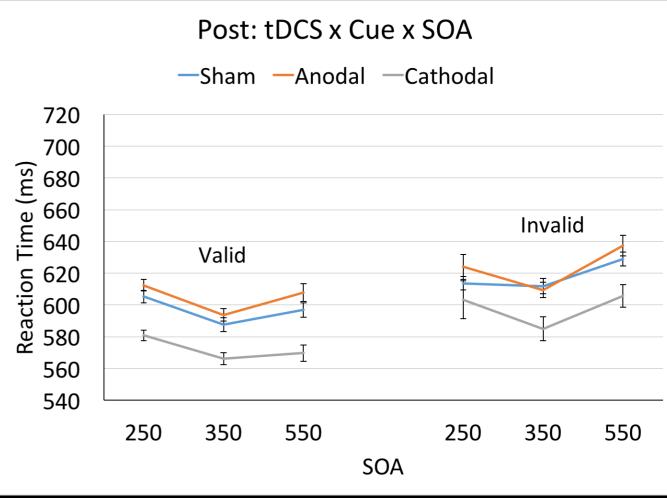
Voluntary Covert Attention Task



Results

21 participants





Future Considerations

 Cerebellum involvement in voluntary versus reflexive attention

 Measuring performance during tDCS

Thank you ©