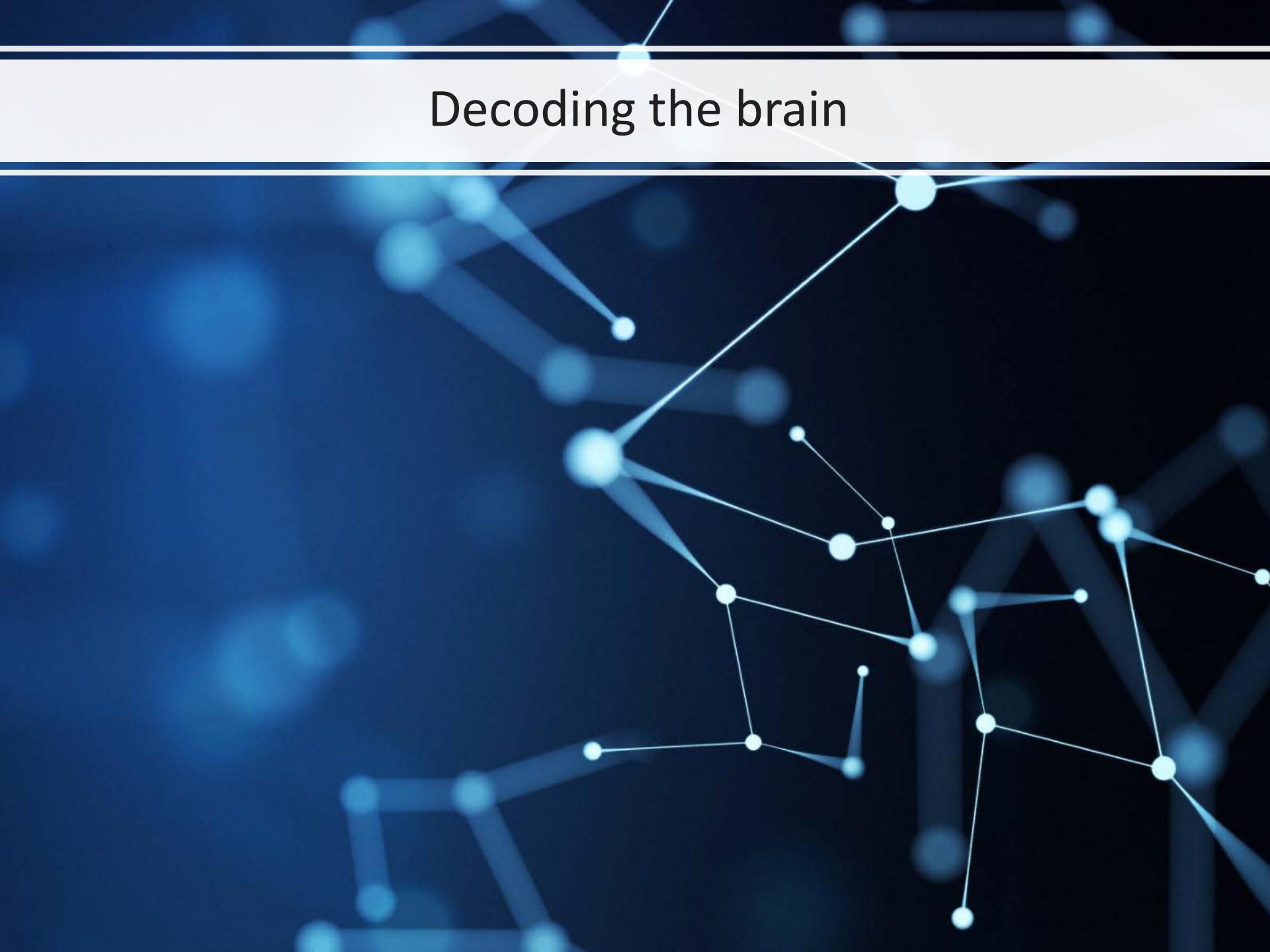


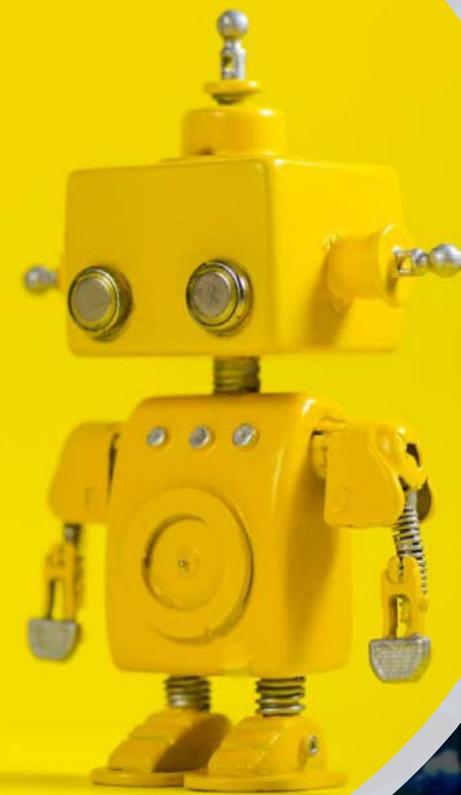


Breaking into the Transition with Brain-  
controlled Home Automation

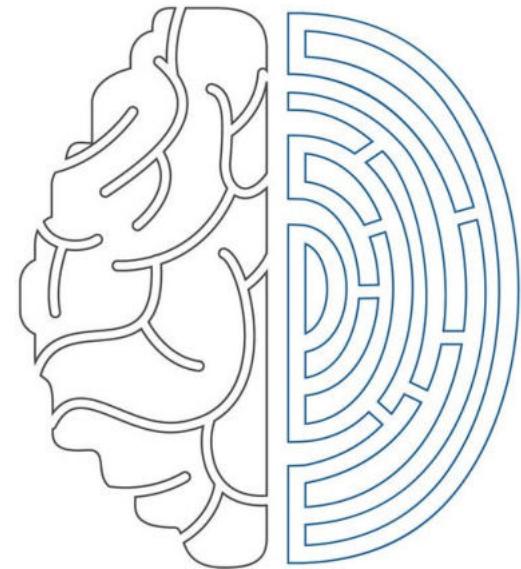
# Decoding the brain



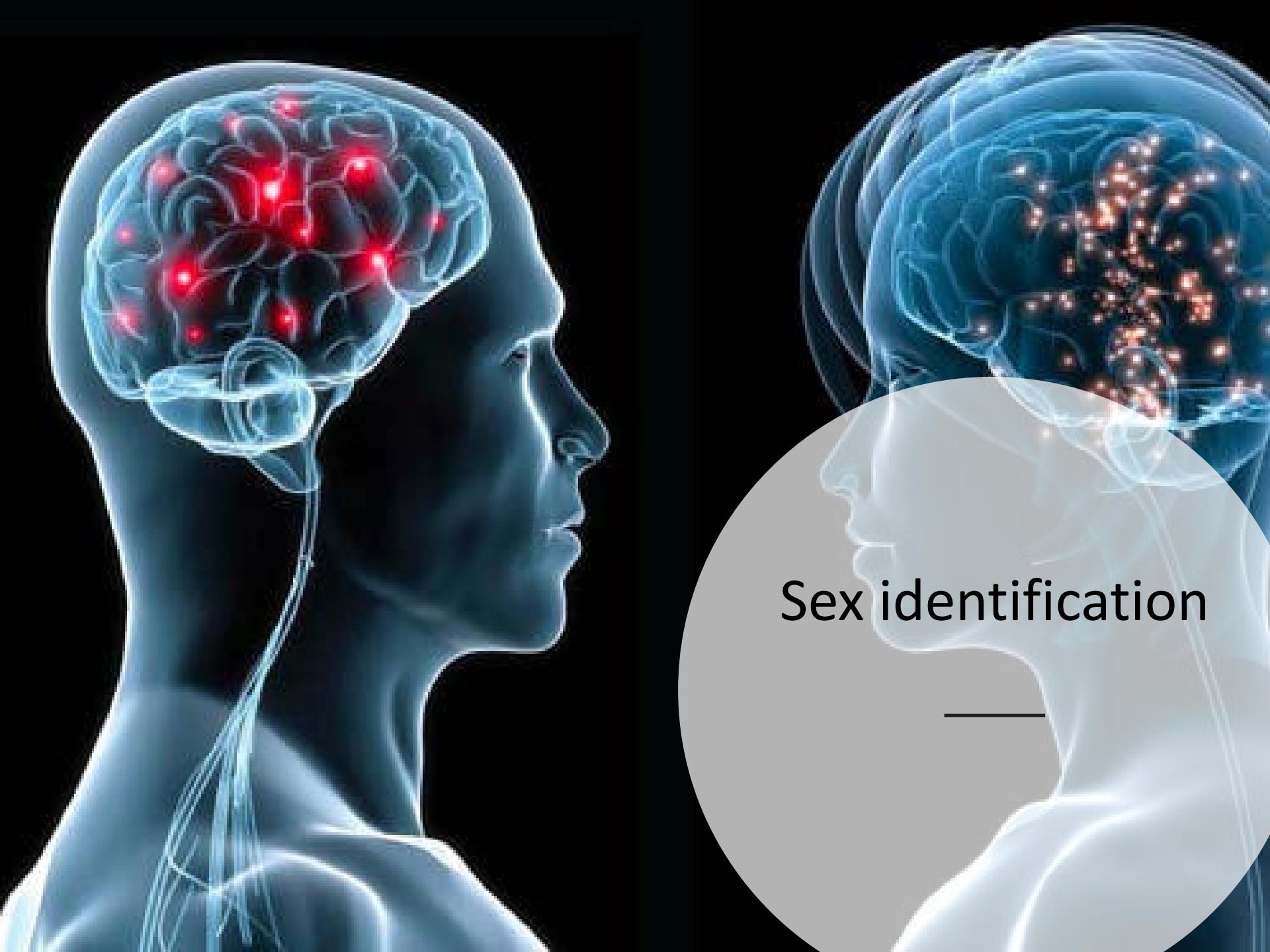
Artificial  
intelligence &  
Microelectronics





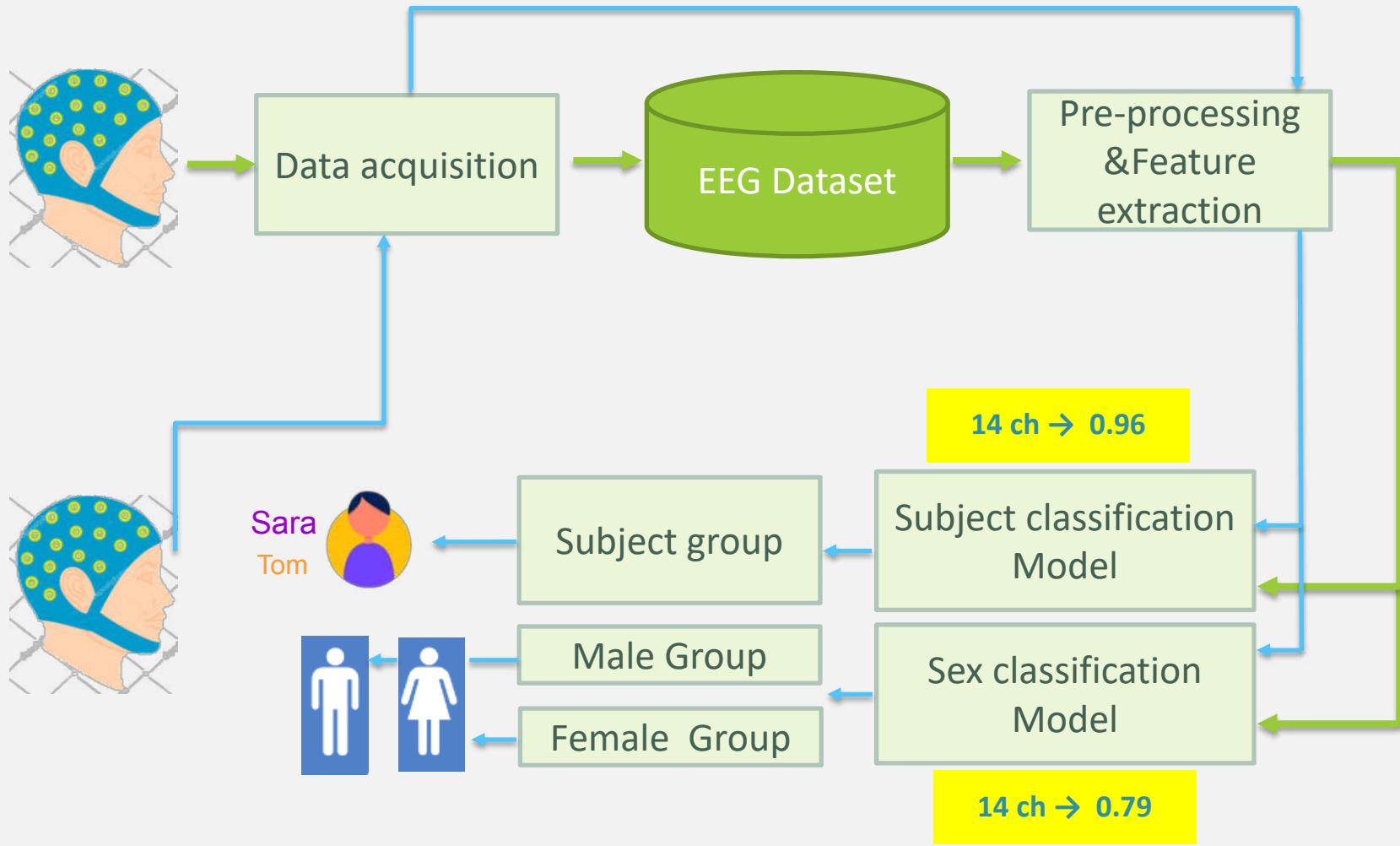


Subject Identification  
From fingerprints to brainprints

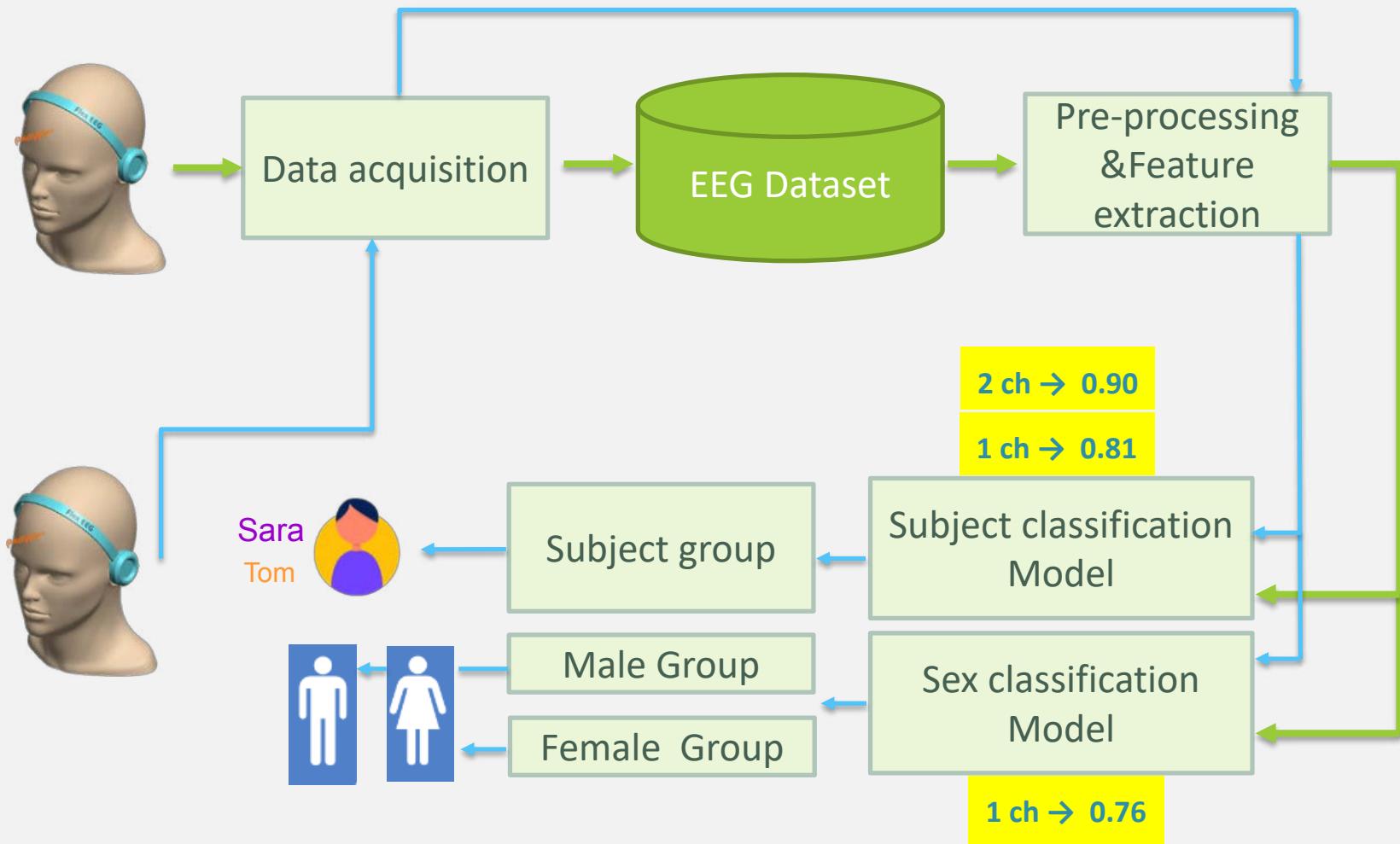


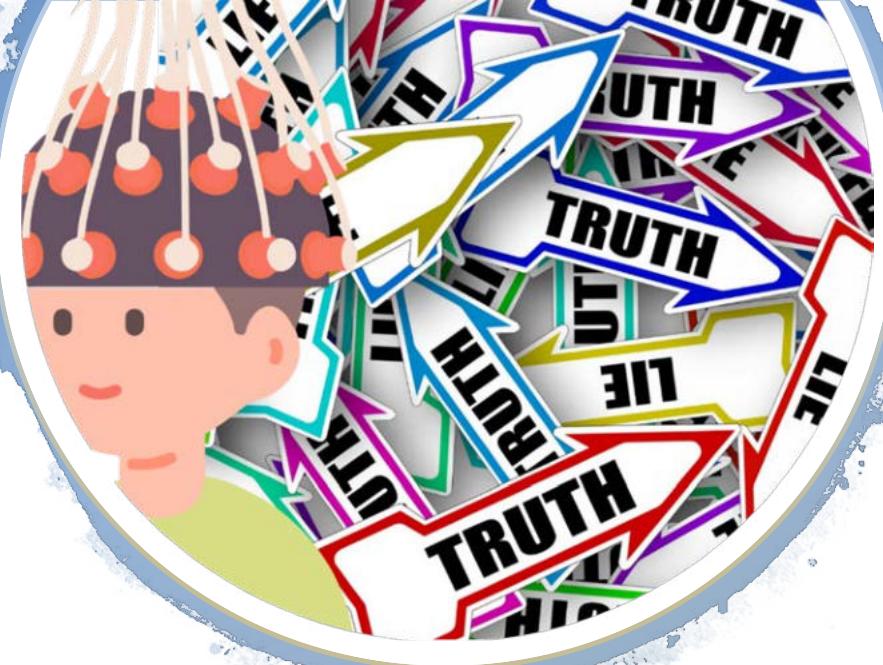
Sex identification

# Subject and Sex Identification



# Channel Reduction





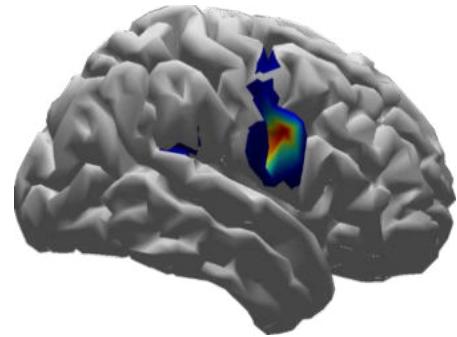
## Lie Detector

<https://www.ntnu.no/ansatte/marta.molinias>

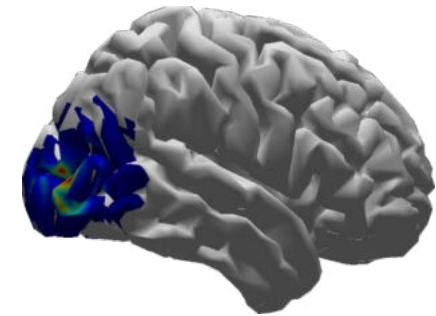




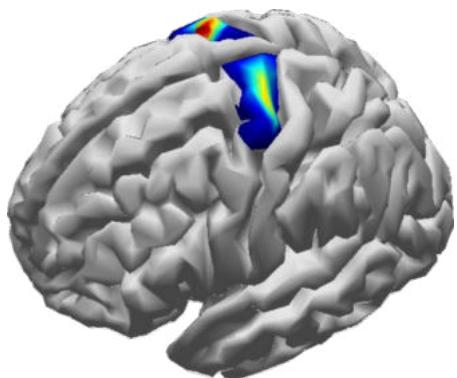
# Alcohol detector



Auditory  
Activity

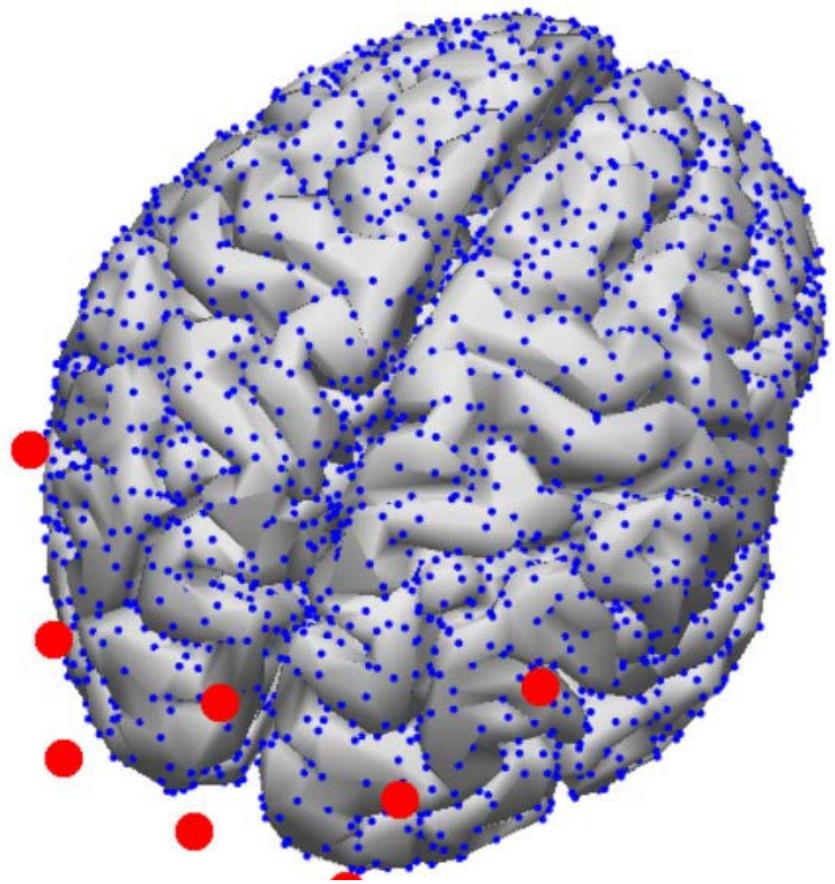


Visual Activity

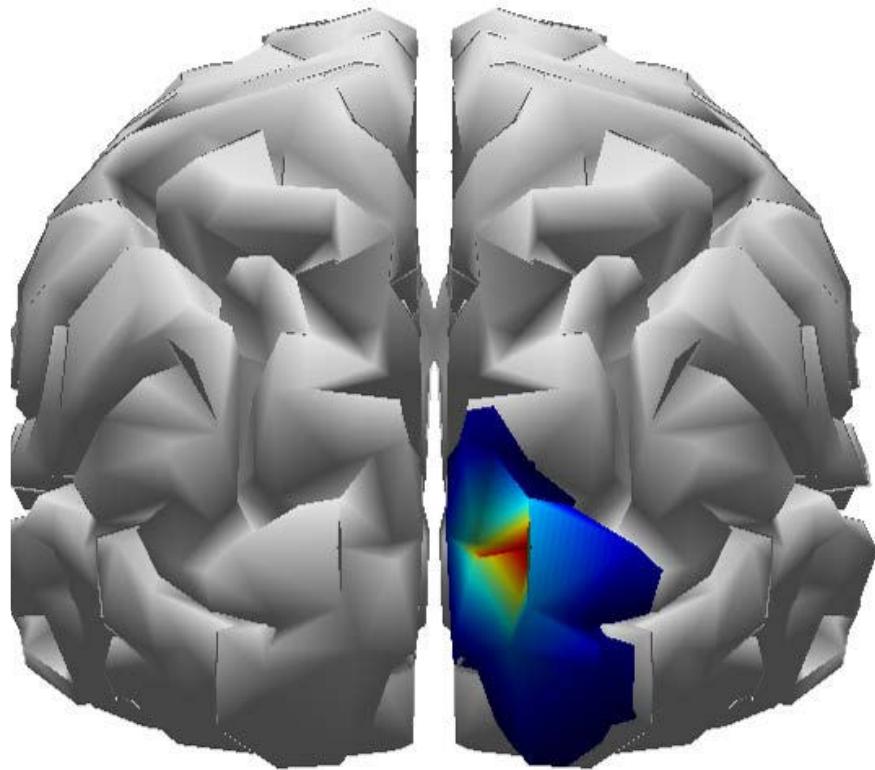


Motor Activity

# Brain Mapping/Neuroimaging



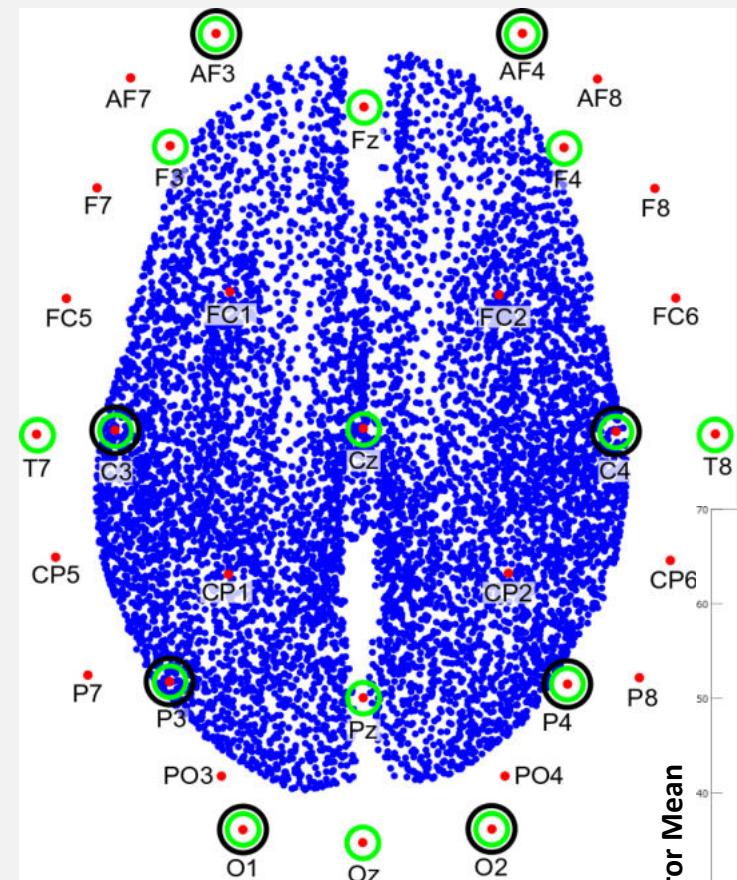
Brain Model & Electrodes  
around Visual Cortex



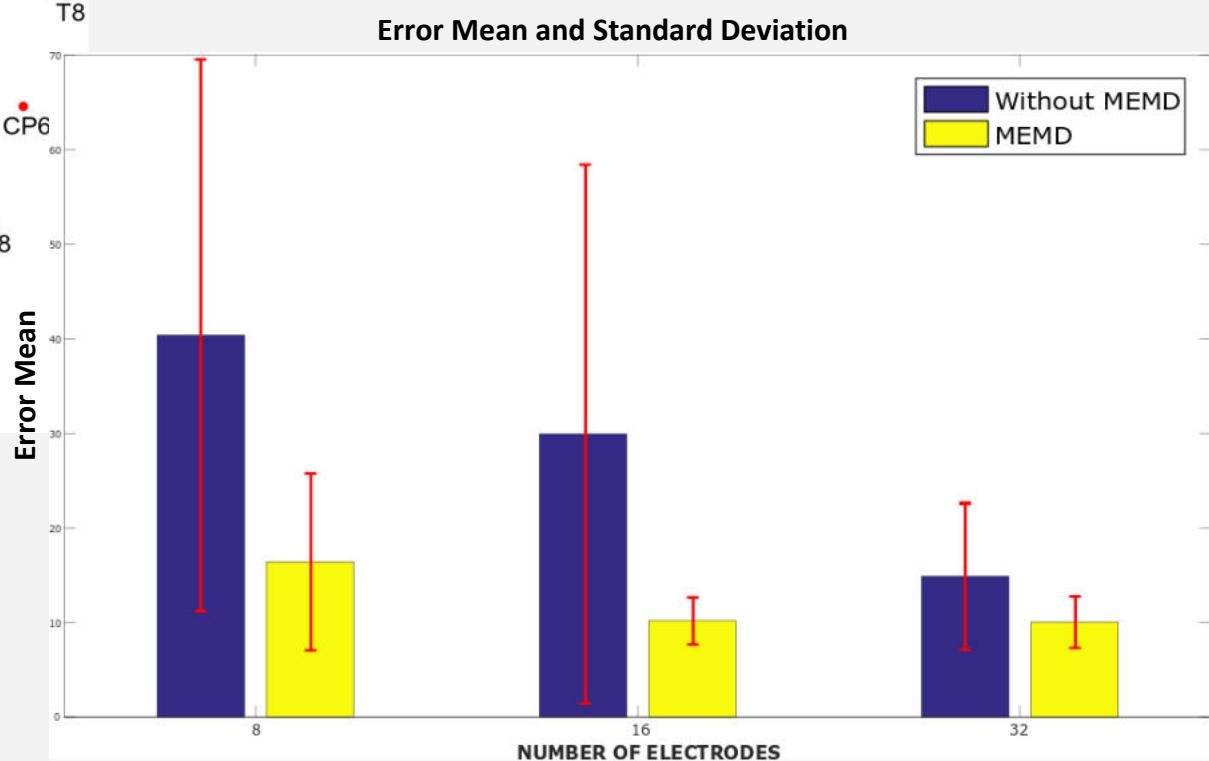
Reconstructed Activity  
in the Visual Cortex

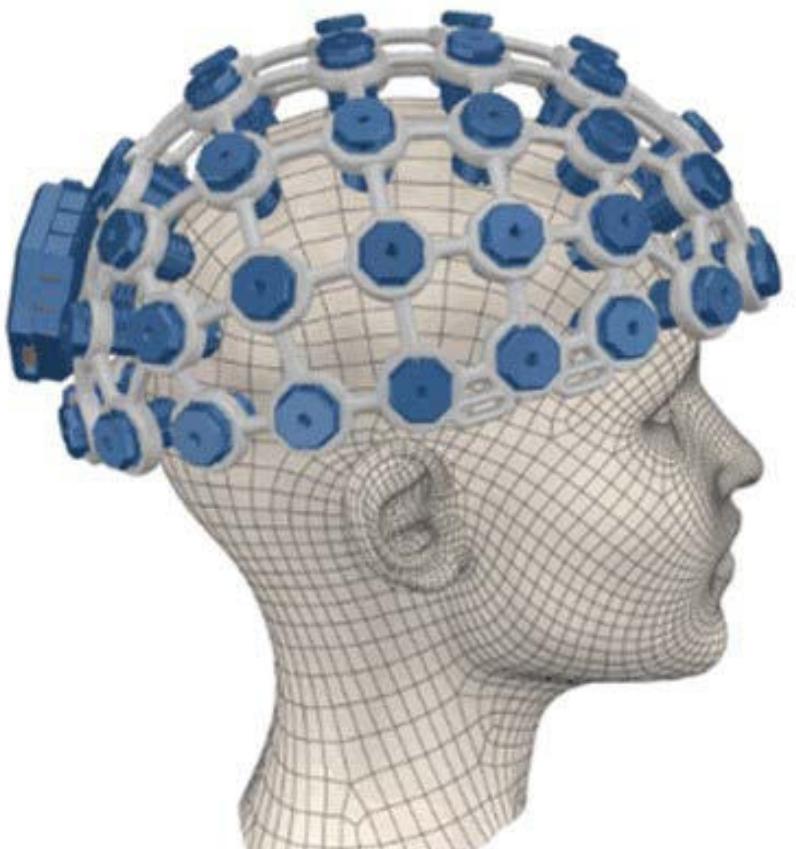
Mapping the Occipital Lobe using visual  
stimuli data and local electrodes

# Brain model-based electrode reduction



- 8196 Sources
- 32 Reduced Electrodes
- 16 Reduced Electrodes
- 8 Reduced Electrodes

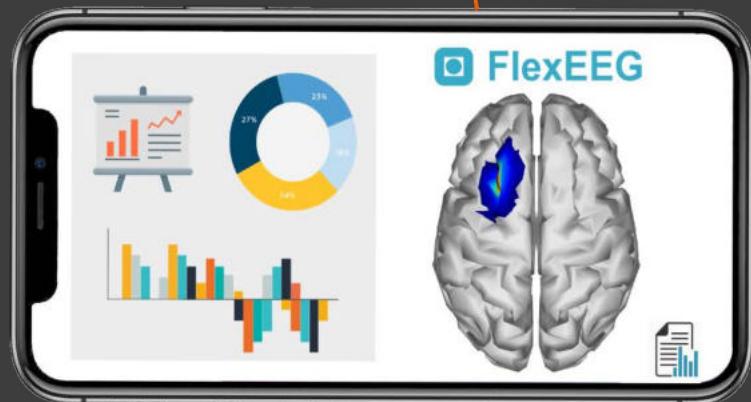




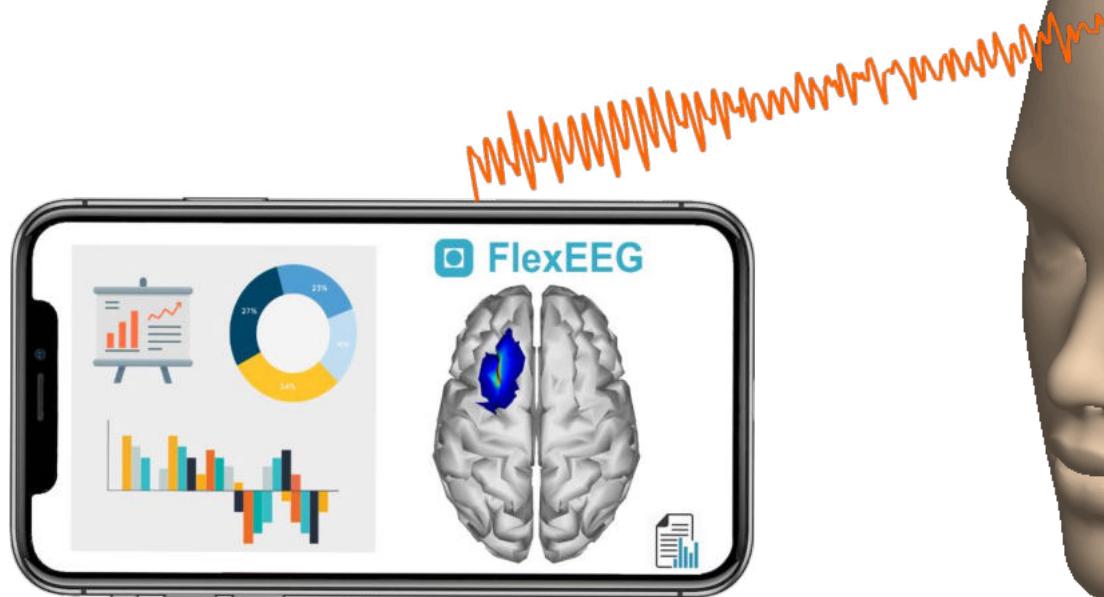
# David & Goliath

# FlexEEG

# FlexEEG



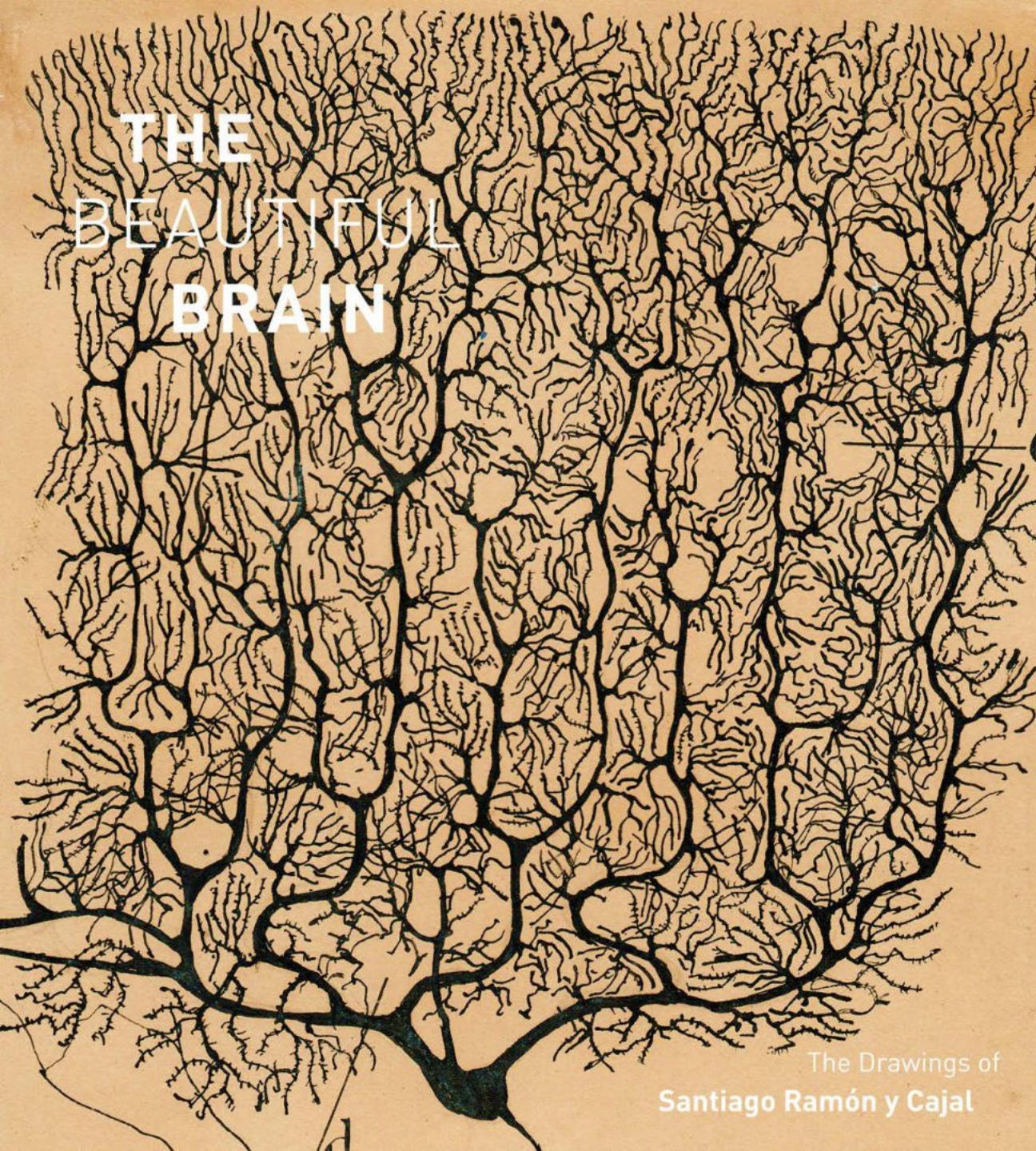
# FlexEEG





# Flying a drone

# THE BEAUTIFUL BRAIN



"Every man can,  
if he so desires,  
become the sculptor  
of his own brain"

*Ramon y Cajal*

"The reasonable man adapts himself to the world: the unreasonable one persists in trying to adapt the world to himself. Therefore all progress depends on the unreasonable man. "

- George Bernard Shaw