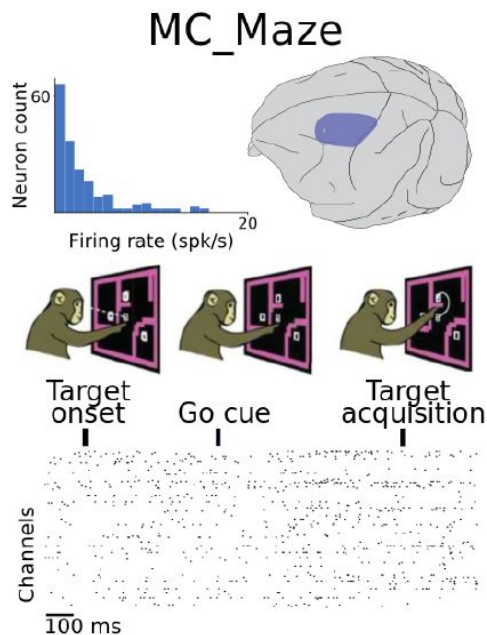
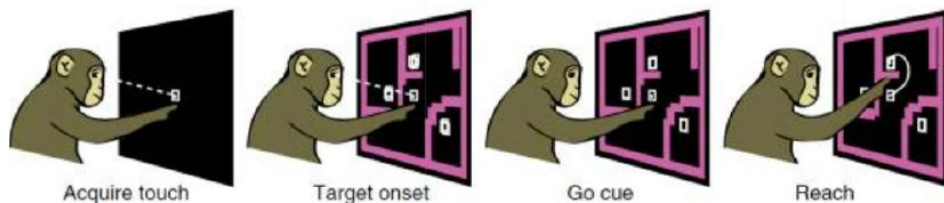


Neural latent benchmarks dataset - MC_Maze



Paper: *Cortical preparatory activity: representation of movement or first cog in a dynamical machine?*

Experimental Task Structure

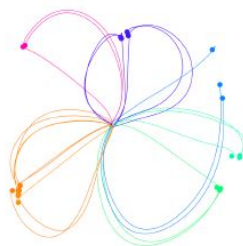


Subject reached repeatedly within a maze (each maze configuration specified by the target location x barrier location)

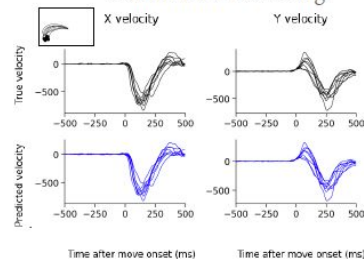
- Rich set of “straight” and “curved” reaching, all start at the center (0, 0)

Neural Decoding Problem

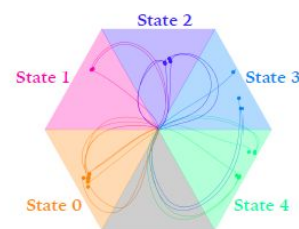
Reaching Trajectories



Continuous Decoding

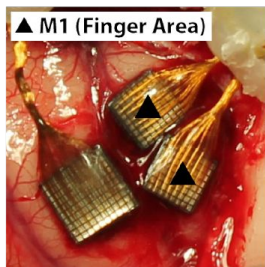


Discrete Decoding



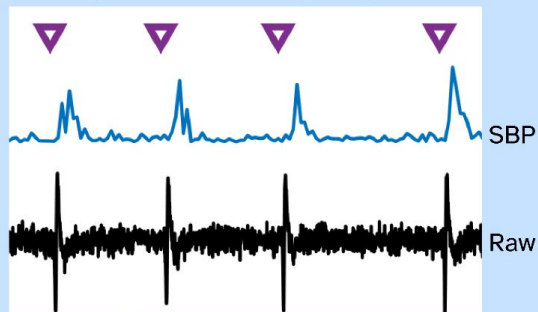
Monkey finger moving dataset

Implant:

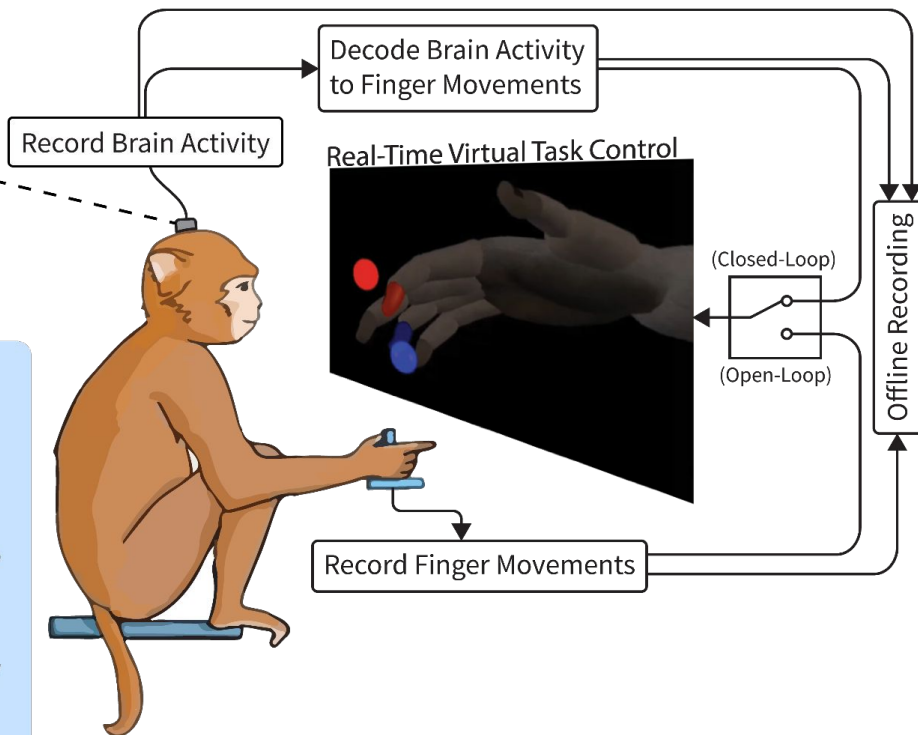


Feature:

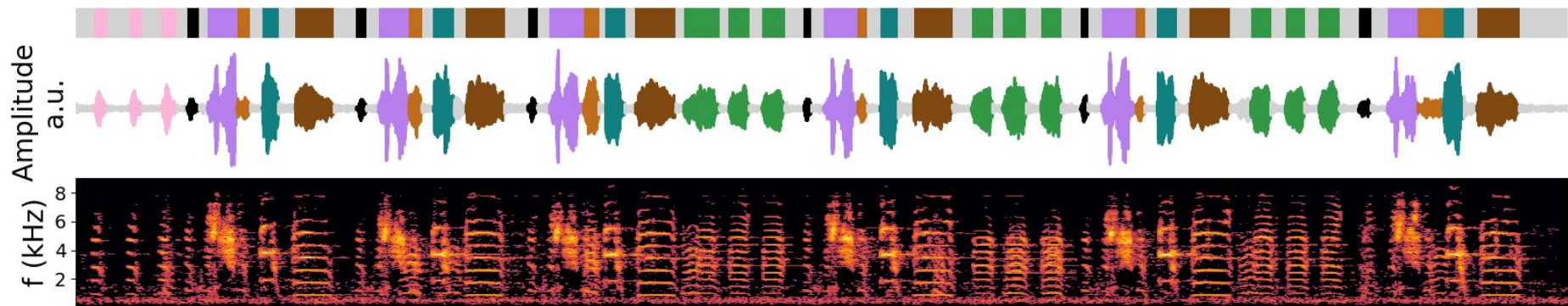
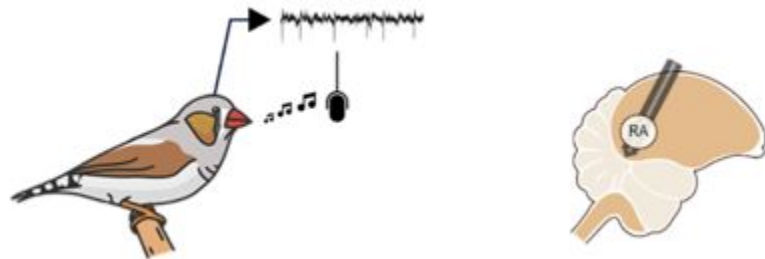
Spiking-Band Power (SBP)



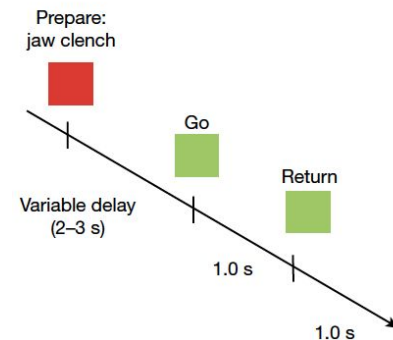
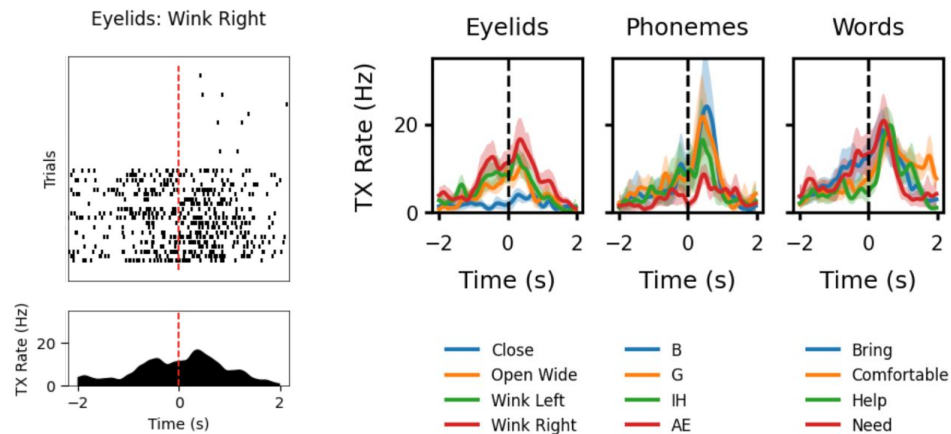
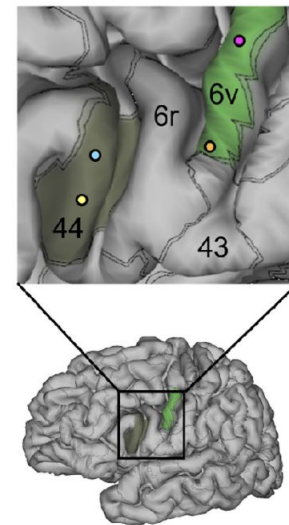
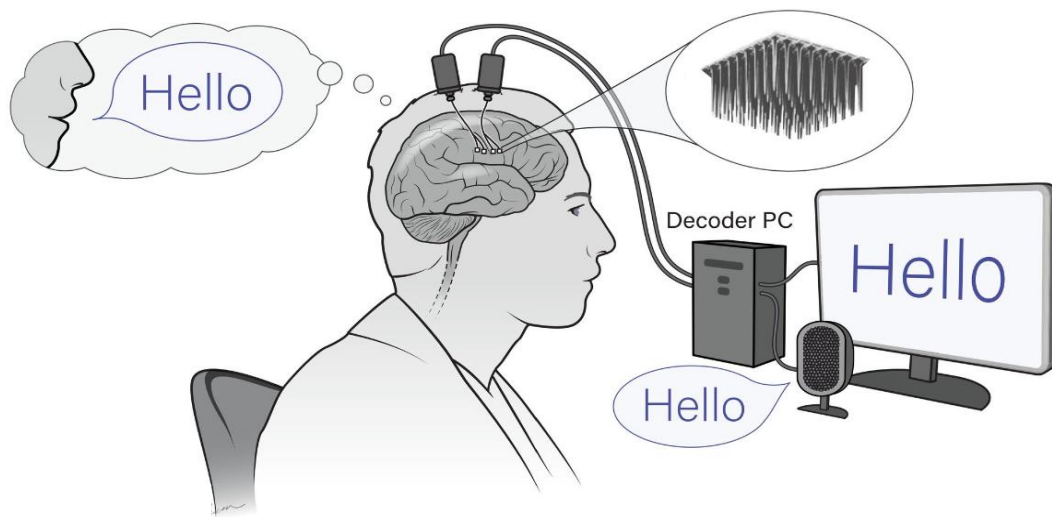
Experimental Task:



Zebra finch dataset



Willet speech dataset



Looking Ahead

11:00 - 12:00 AM Dataset Intro Session

- Room 1 : monkey finger movement, monkey arm reaching
- Room 2: bird vocalization, human speech

1:00 - 2:00 PM Chose Dataset and Project Pitch