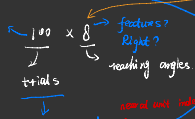


Spike trail: 98 neural units:

→ check the Test Data.mat File

This can be something like instance in ML

reached 182 times along each of 8 different reaching angles.



Neural Data
• Spikes: 98×672
• hand Pos: 3×672
Hand Position Data

RMK: the neural and arm trajectory are taken from 300 ms before movement onset until 100 ms after movement end

• why do we have dimension of 672?

this is the sampling dimension I believe

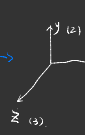
It can be different from trial and reach angle

• what does our reaching angle mean here? Does it mean that we are going to show a straight line according to this angle?

• A time-discretized sequence of poses and poses with time step of 1 ms

• a_j represents the presence or absence of a spike in the neural unit in the time window

• $\text{trial} \in \mathbb{R}^T$, $\text{angle} \in \mathbb{R}^T$ → this is a piece of data information
trial 46: $\begin{bmatrix} 1.102 \\ 1.81 \end{bmatrix}$, angle 46: $\begin{bmatrix} 1.78 \end{bmatrix}$



• hand position in [mm] at each time step of 1 ms

• Reaching angle: [30, 70, 110, 150, 190, 230, 310, 350] / 180°