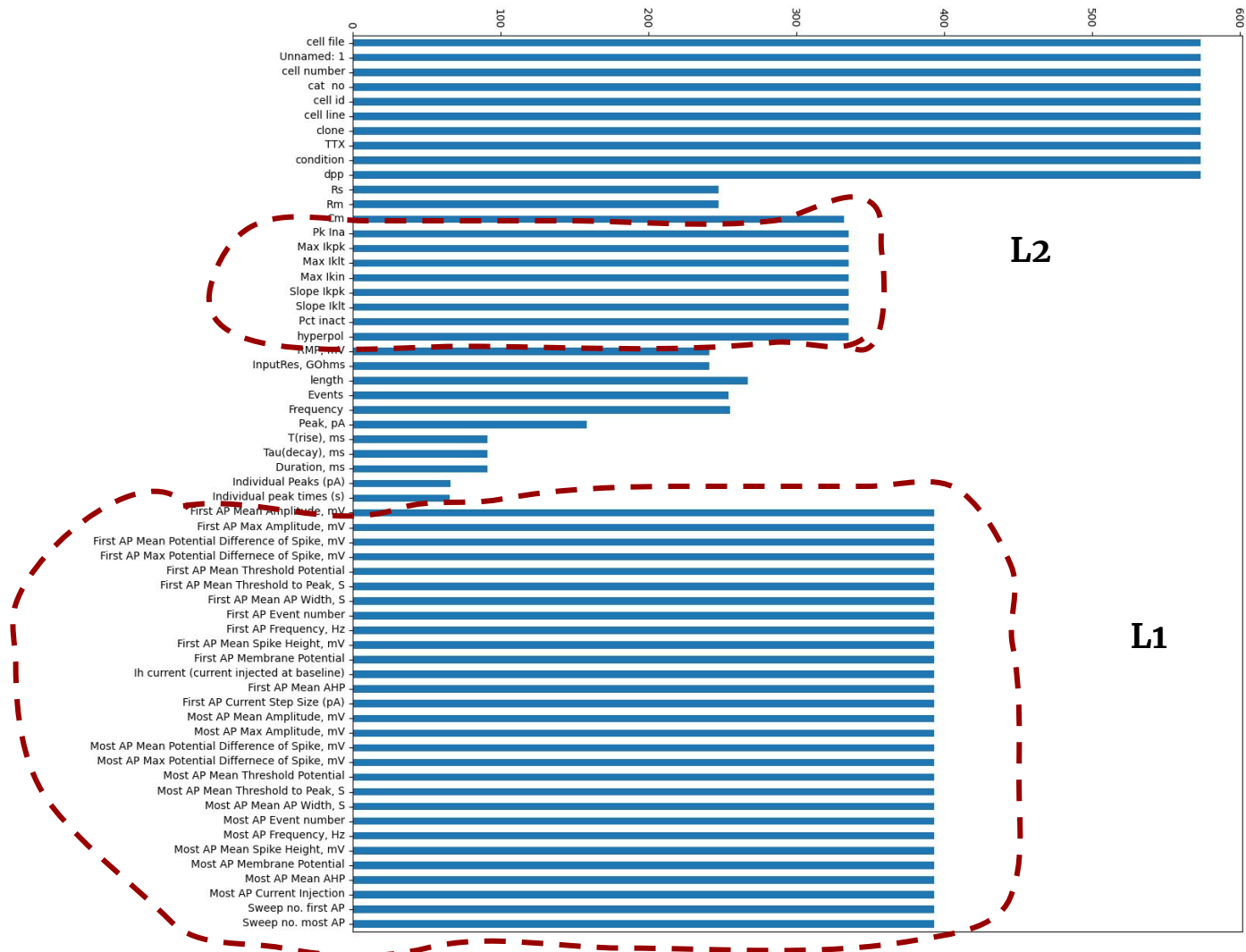


Ephys data: More about variation

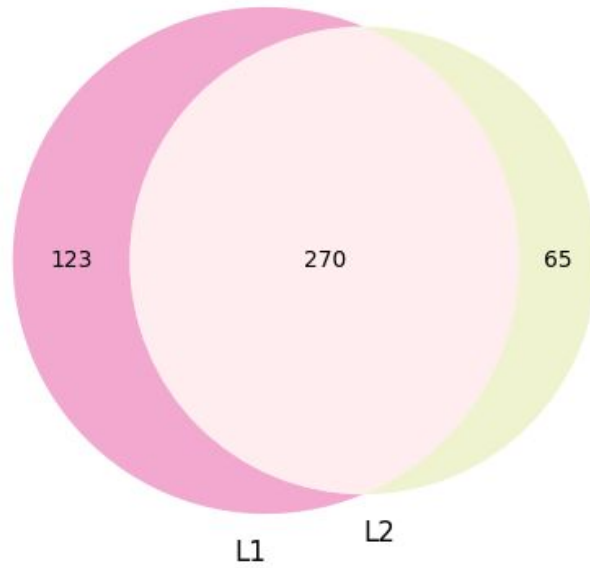
Mohorianu Lab

Liviu Pîrvan
13 October, 2023
Meeting

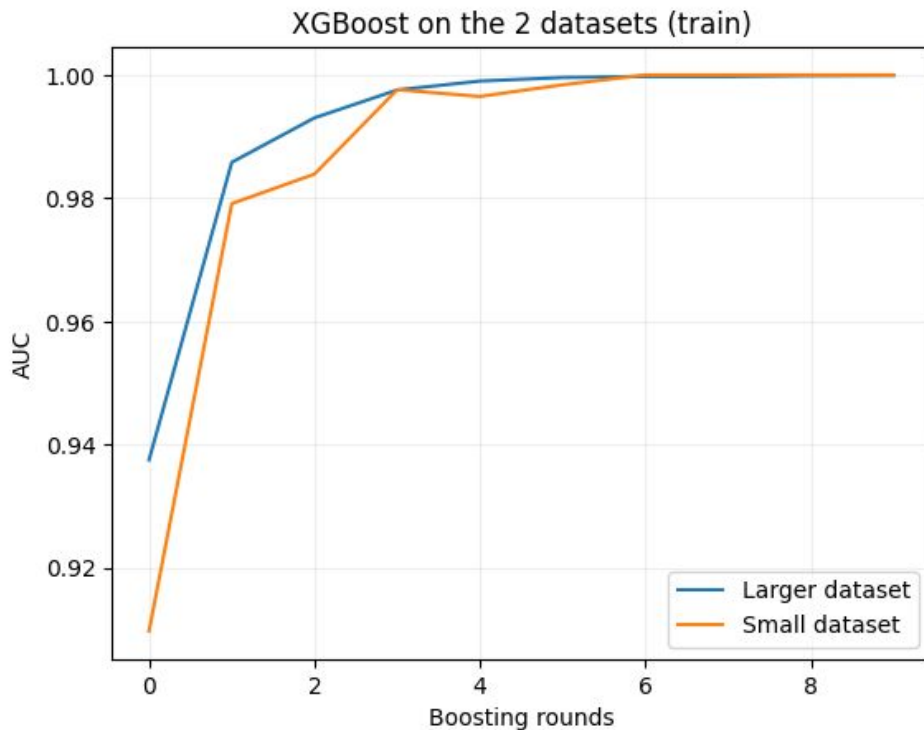
Recap...



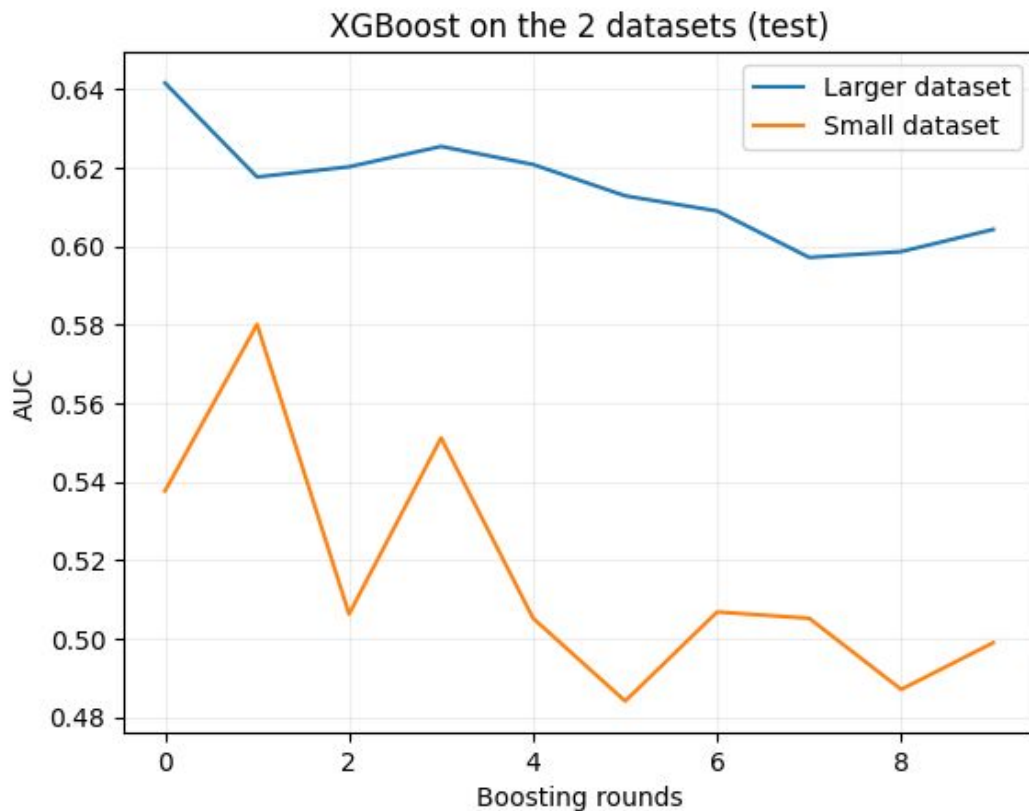
Number of present elements from L1 and L2



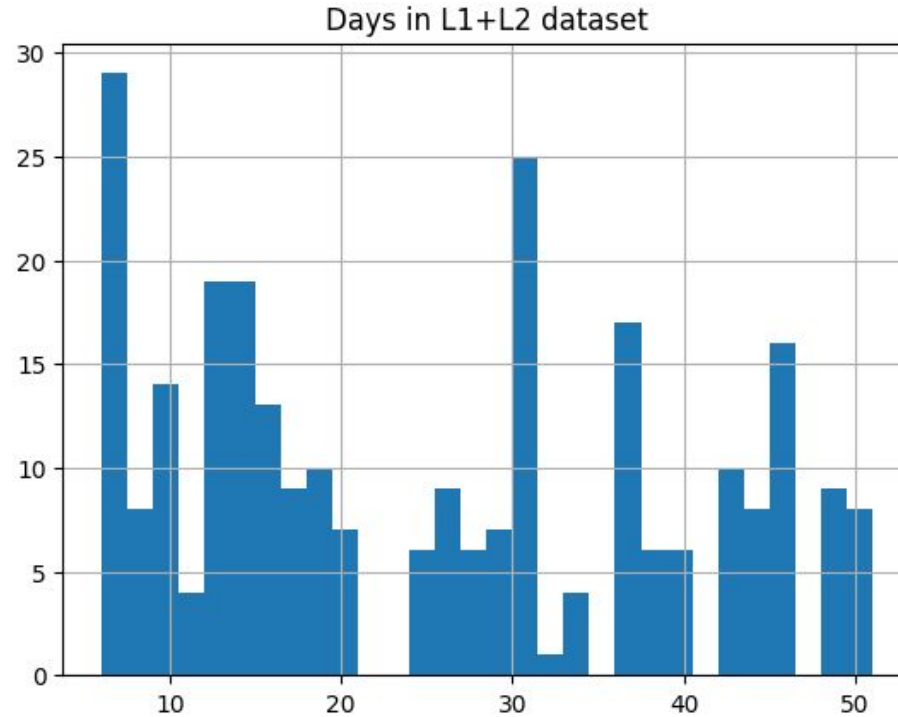
XGBoost performs better on the larger dataset



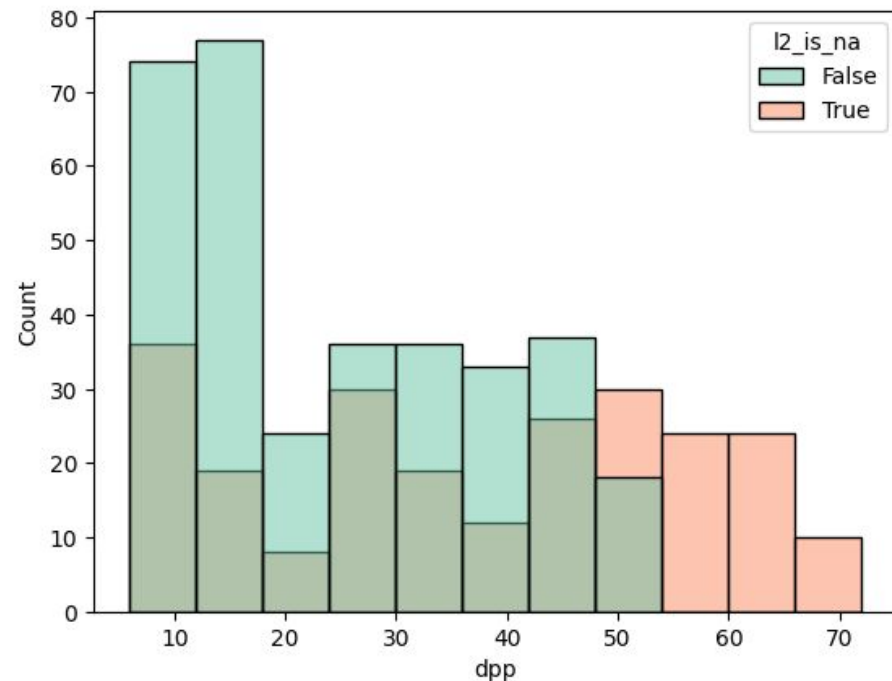
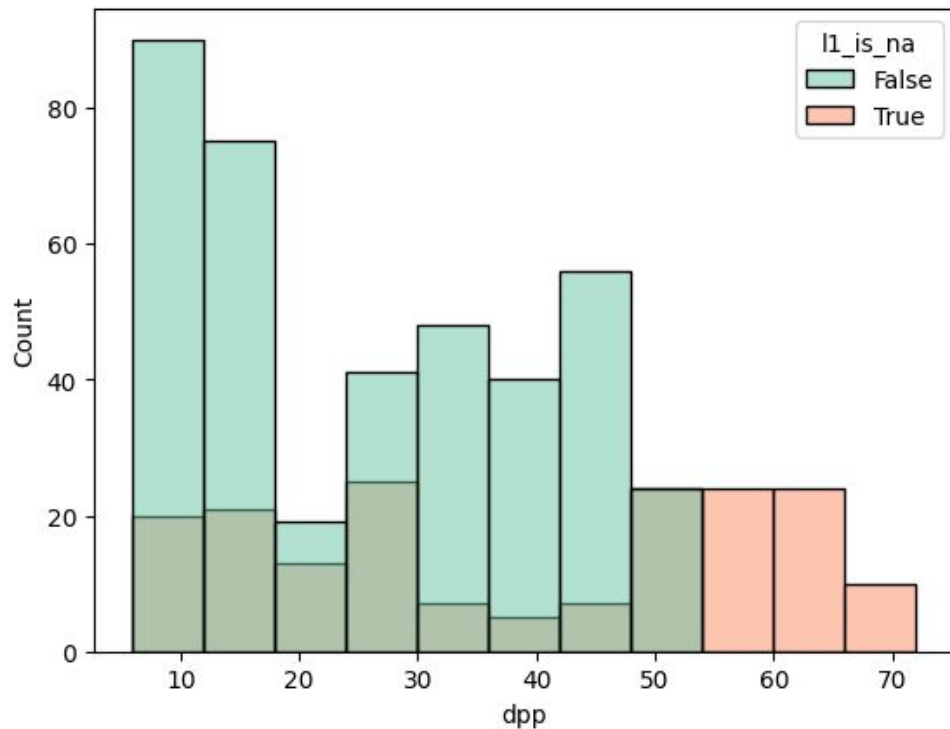
XGBoost performs better on the larger dataset

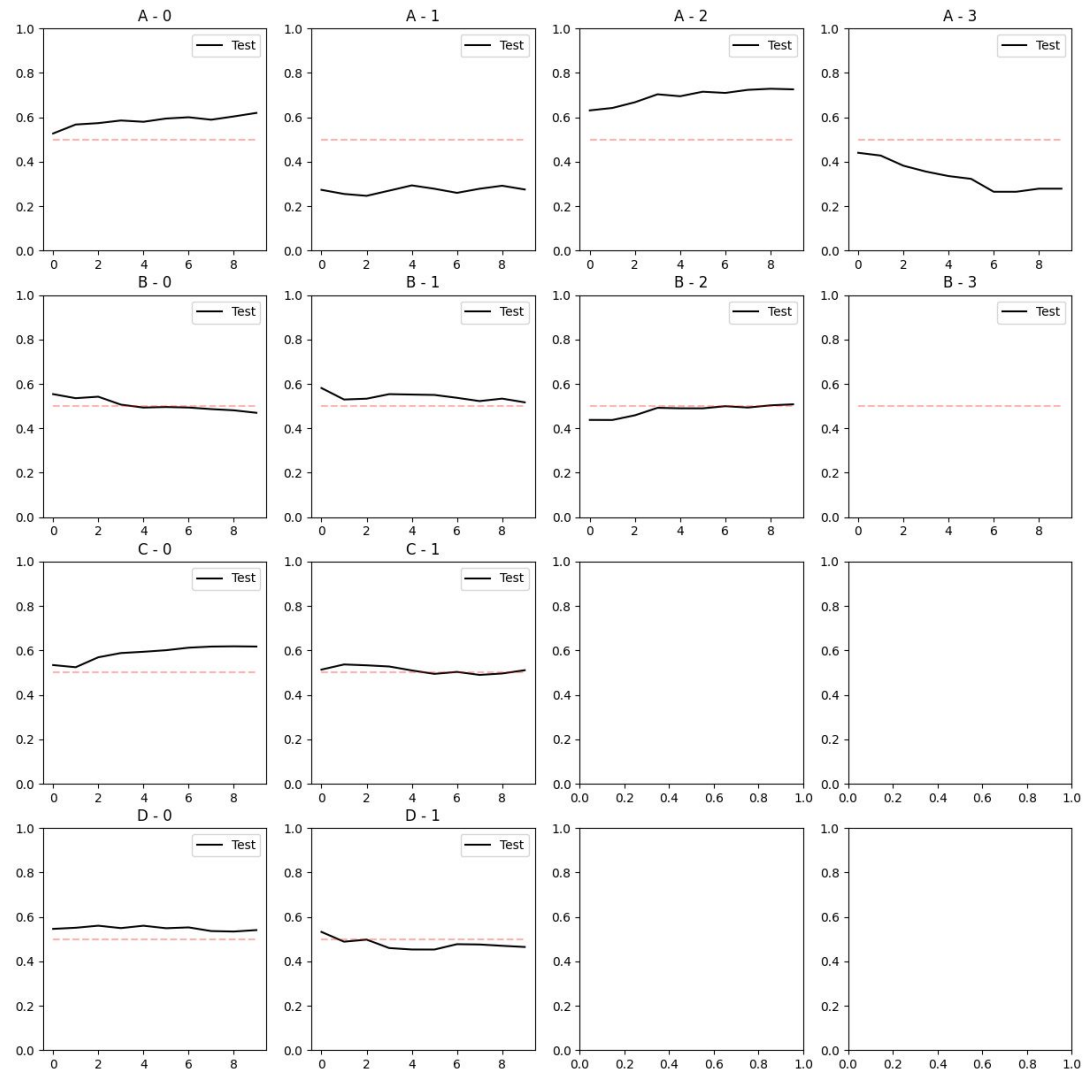


Frequency of days in the L1+L2 dataset



Later timepoints have only NA values for L1 and L2

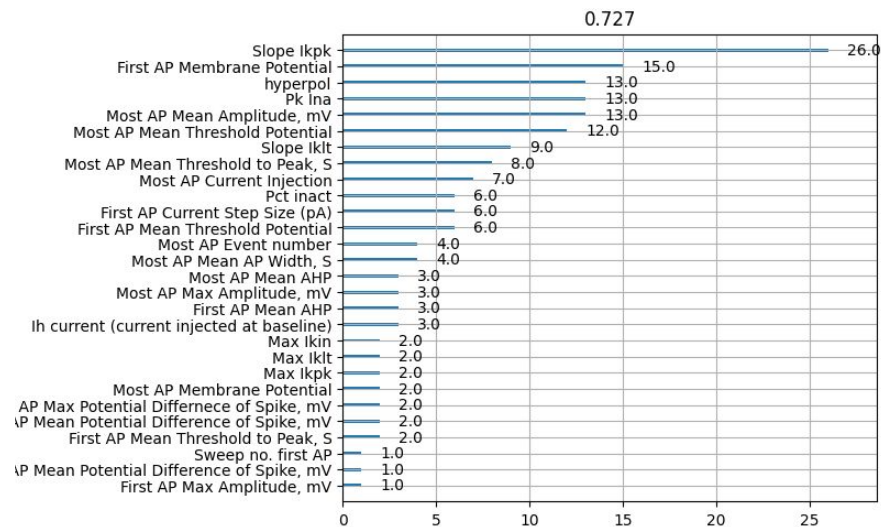
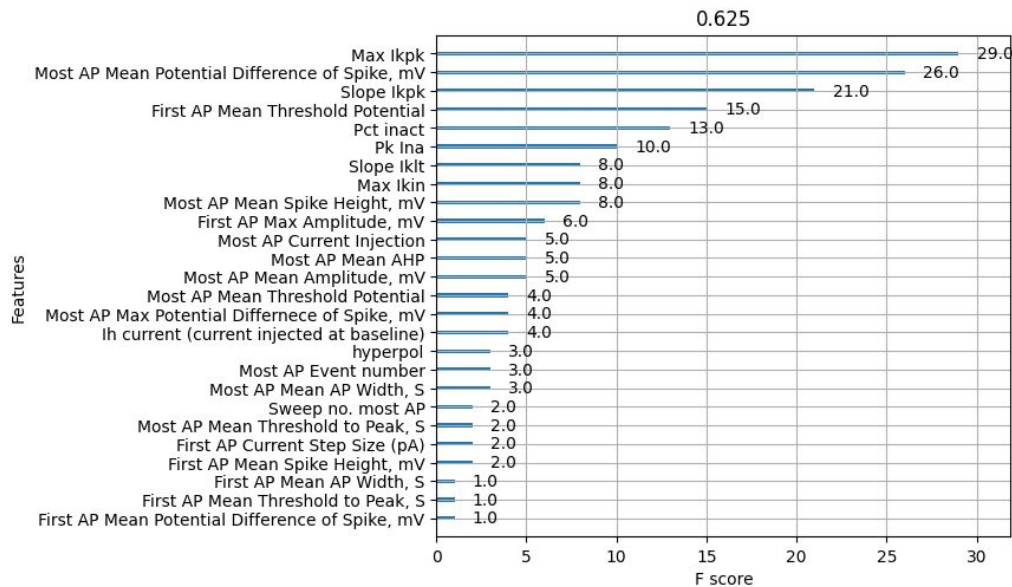


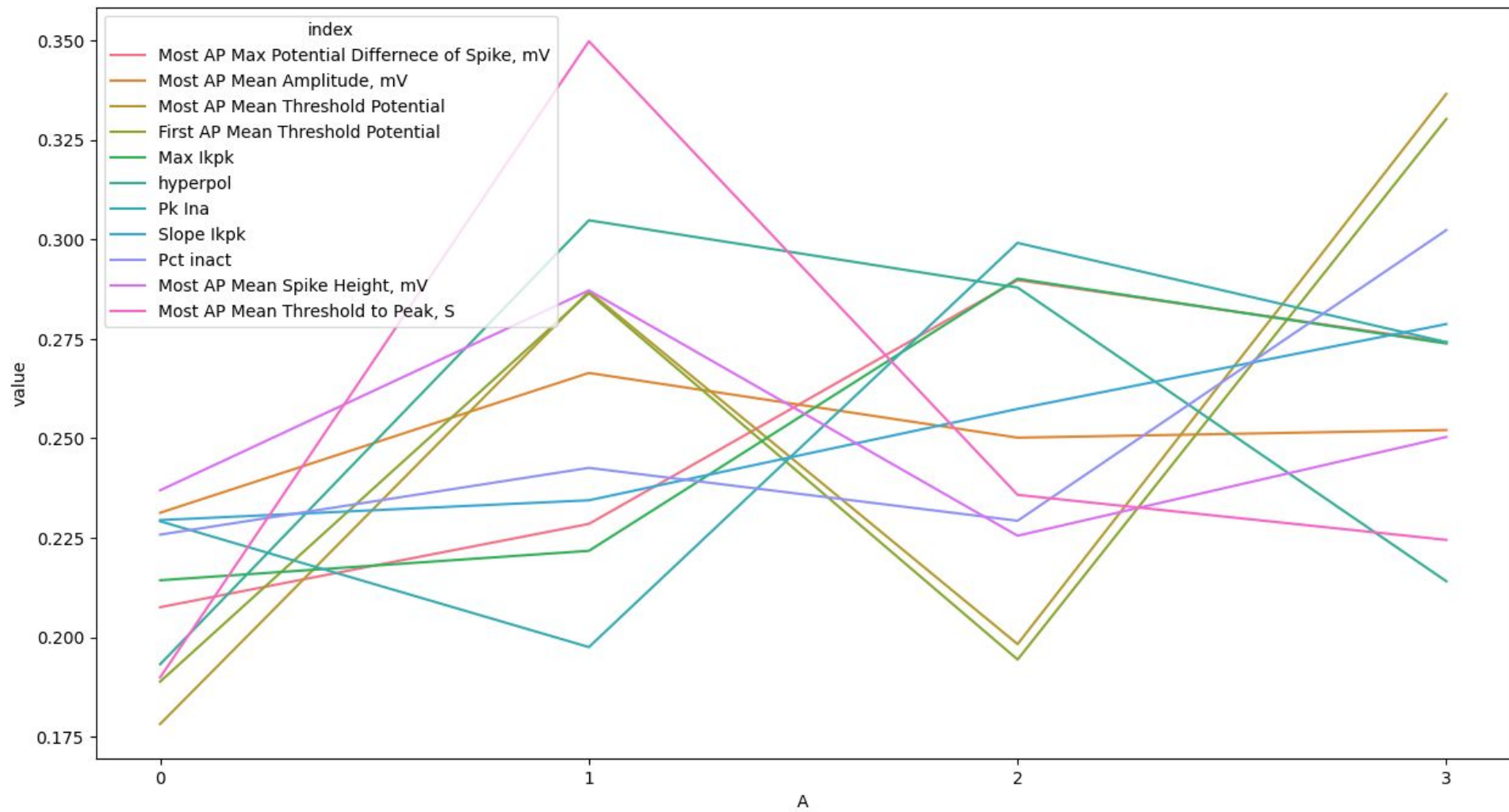


Proposed time ranges

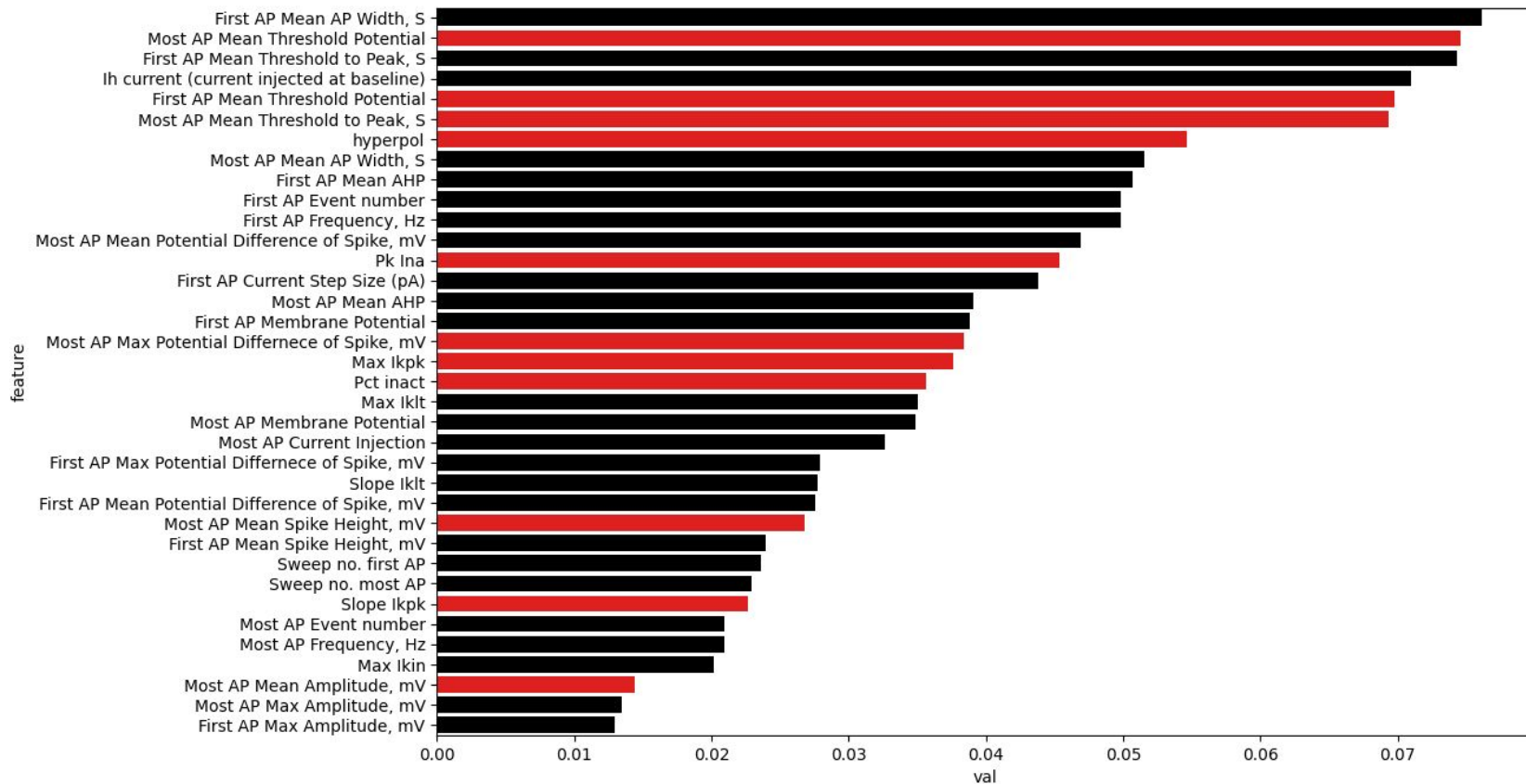
- A:0-14, 15-28, 29-42, 43-56, 57+
- B:0-21, 22-35, 36-49, 50-63, 64+
- C:0-28, 29-56+
- D:0-35, 36-63

A1 and A3



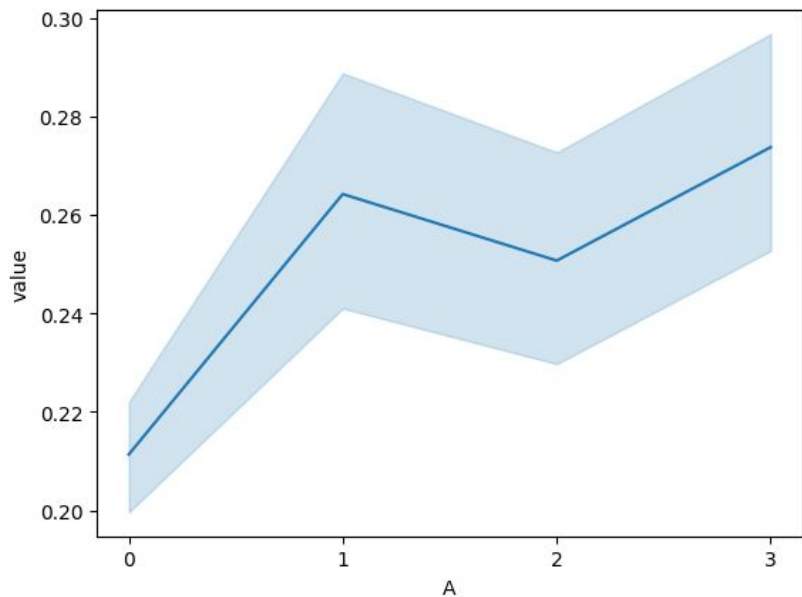


Std of std for all features (red = important features)

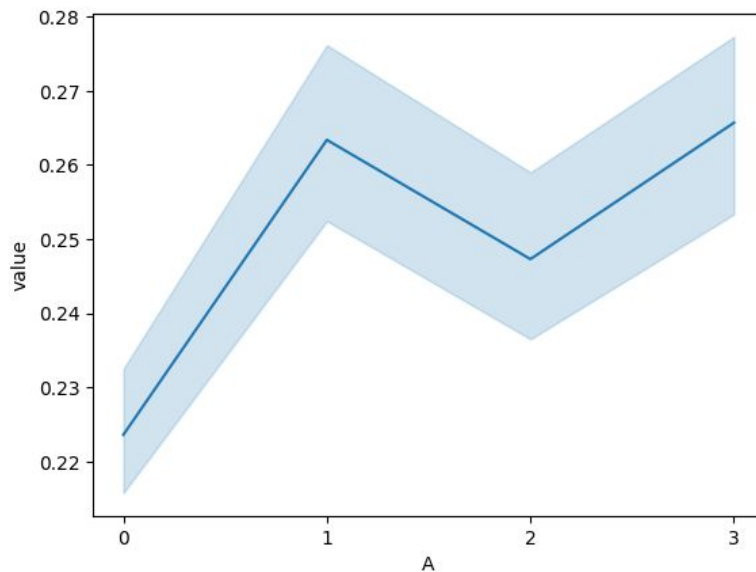


Mean features std per time point

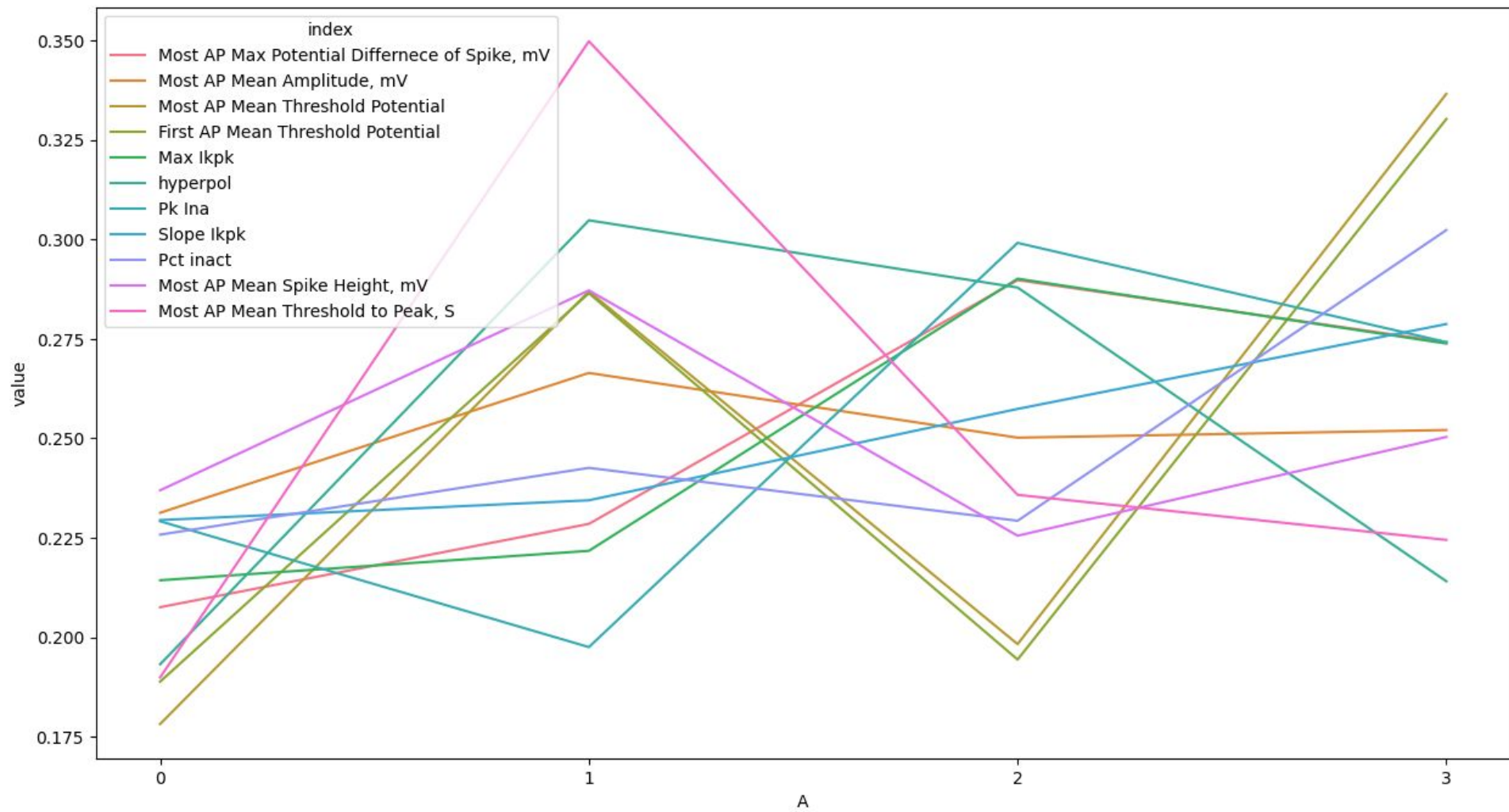
Subset features



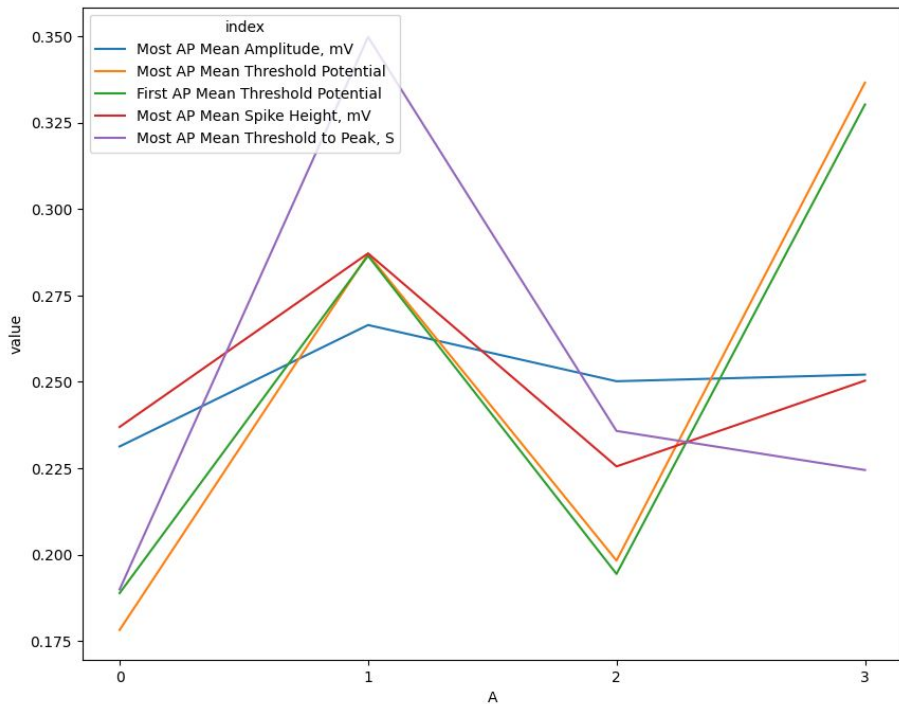
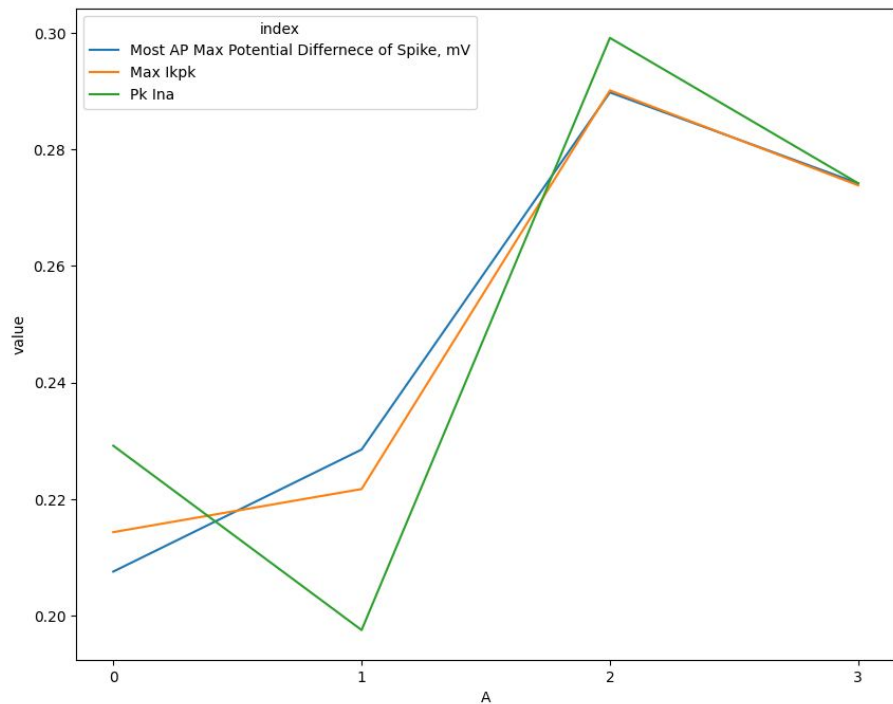
All features



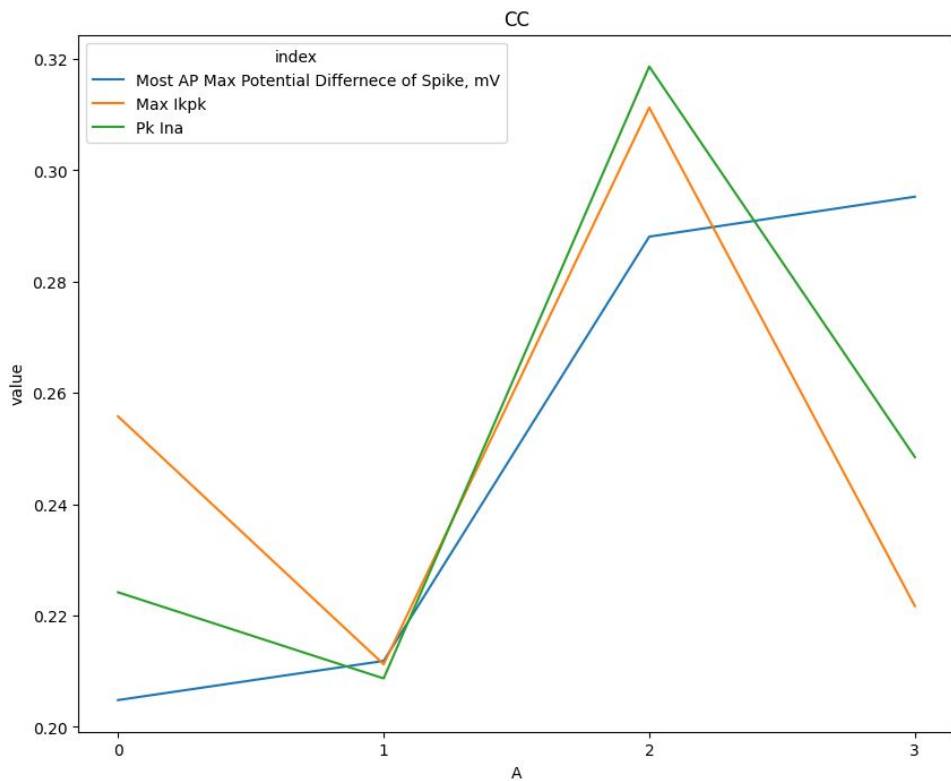
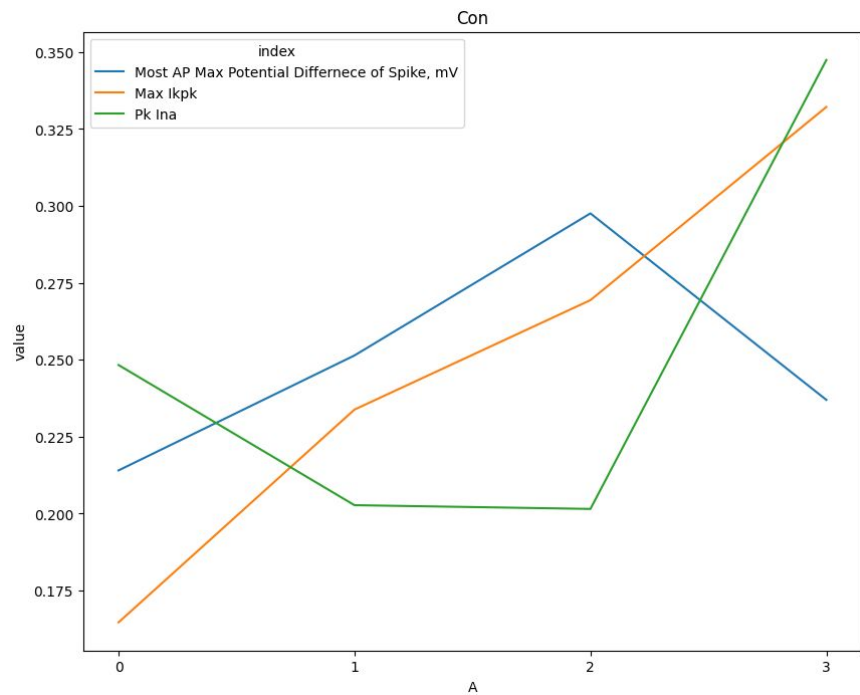
Further investigation into variation



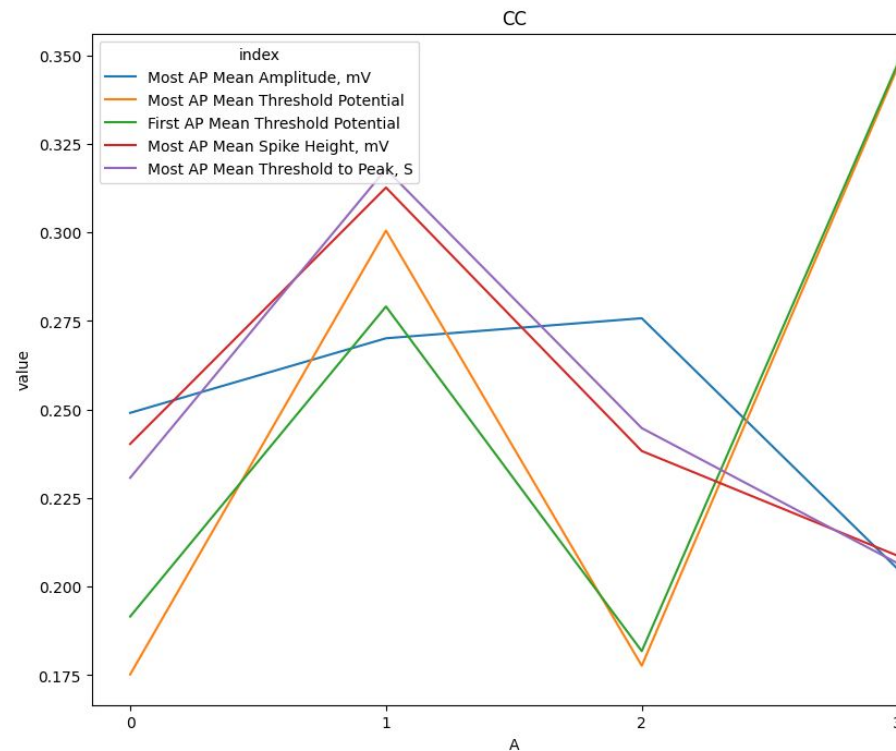
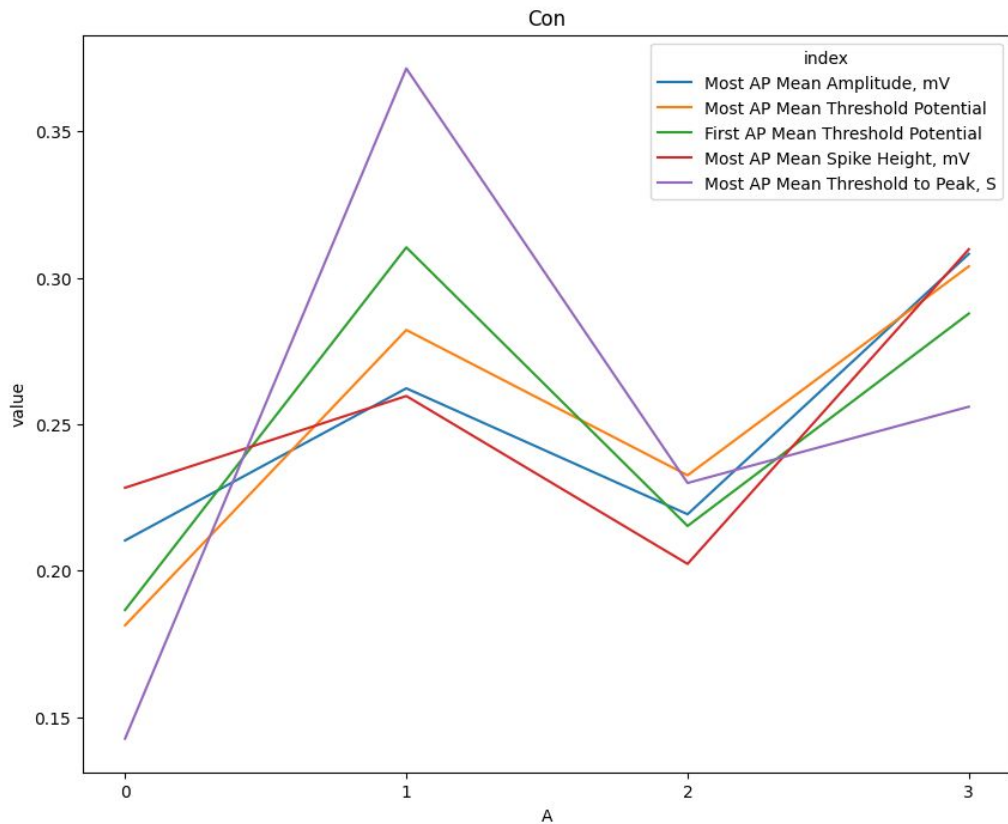
Splitting by groups



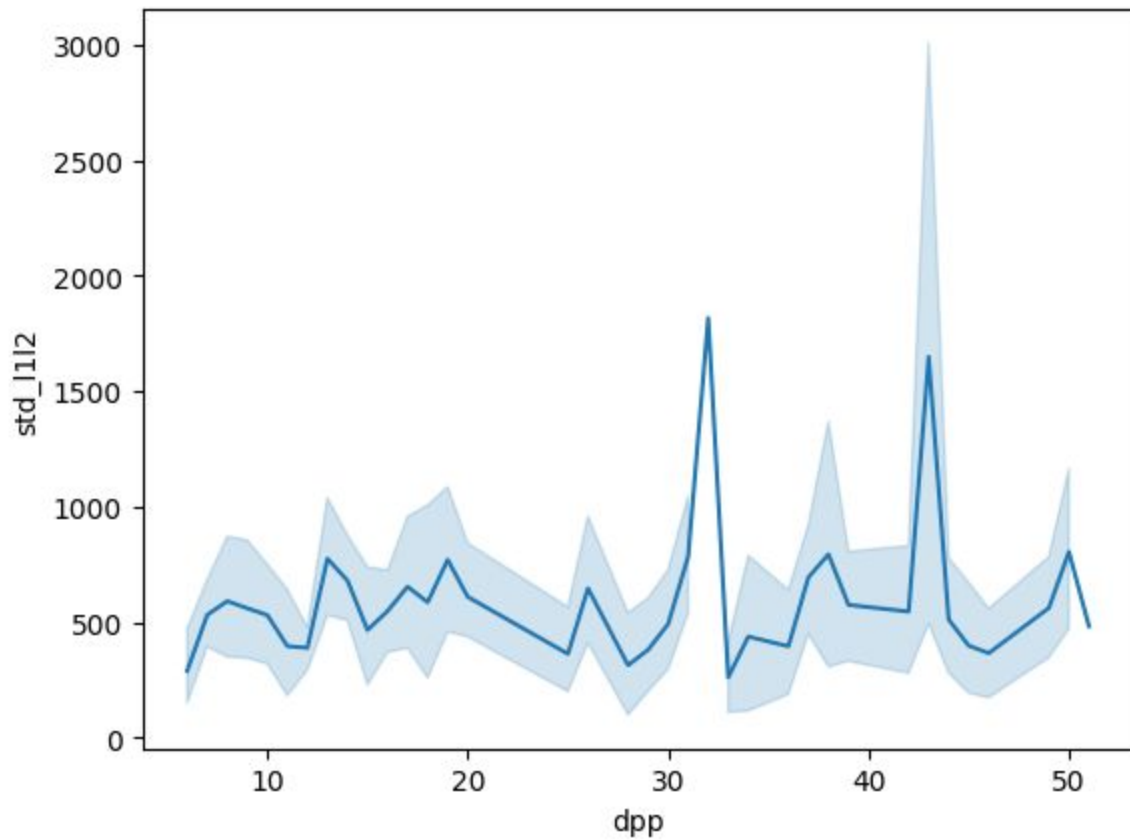
Splitting groups by conditions



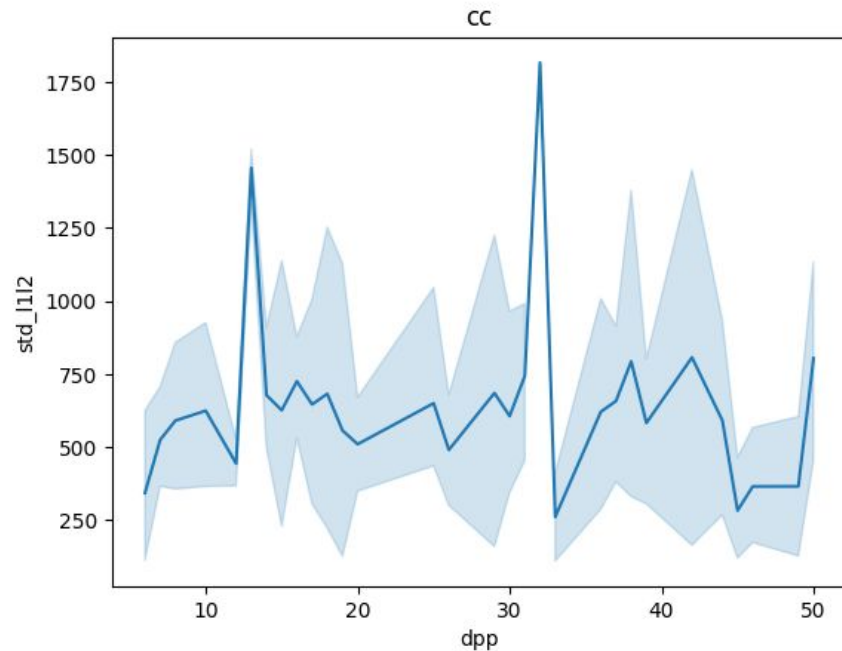
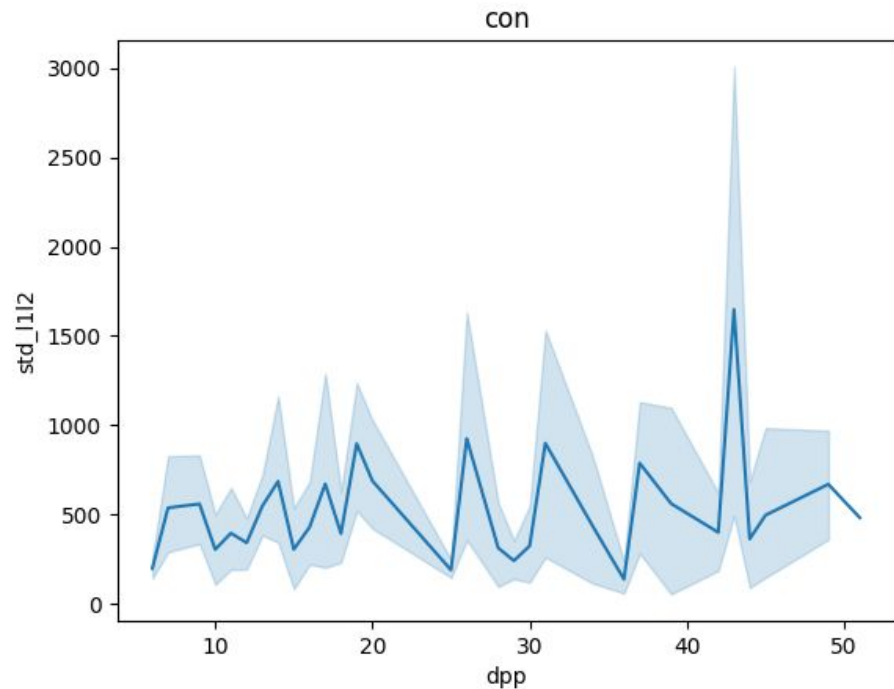
Splitting groups by conditions



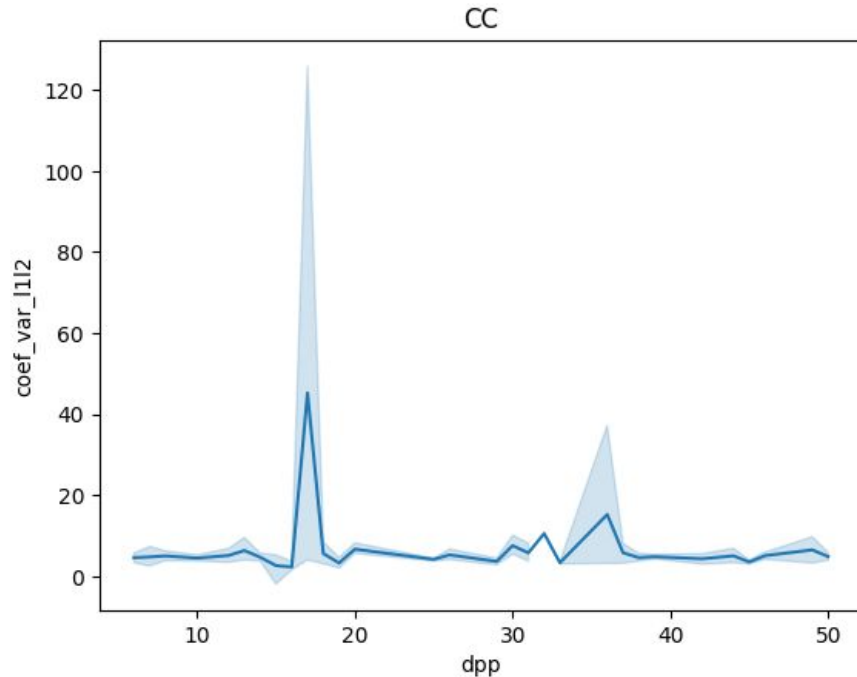
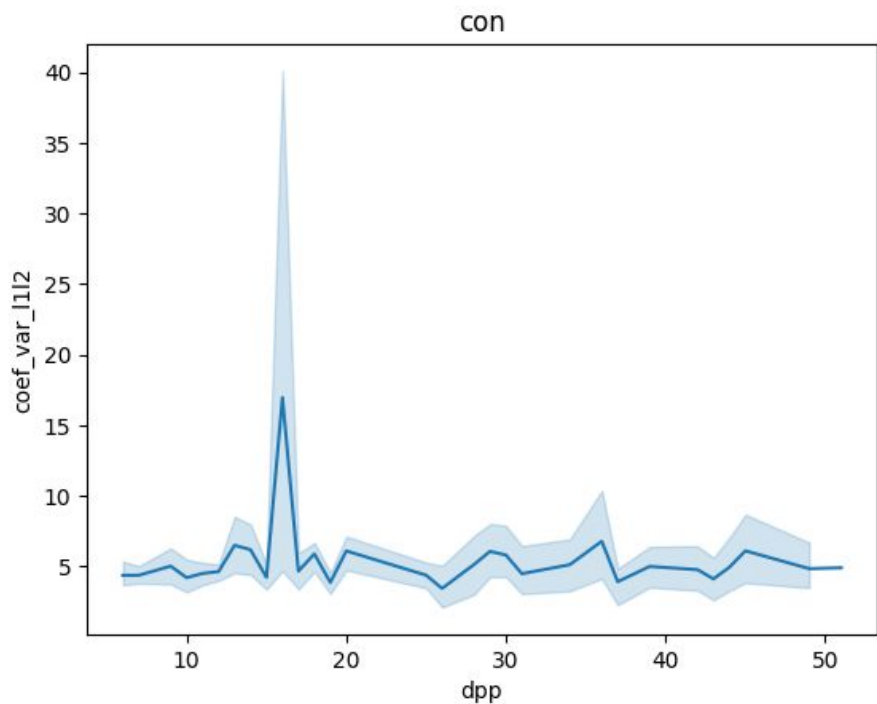
Std over time (no time ranges)



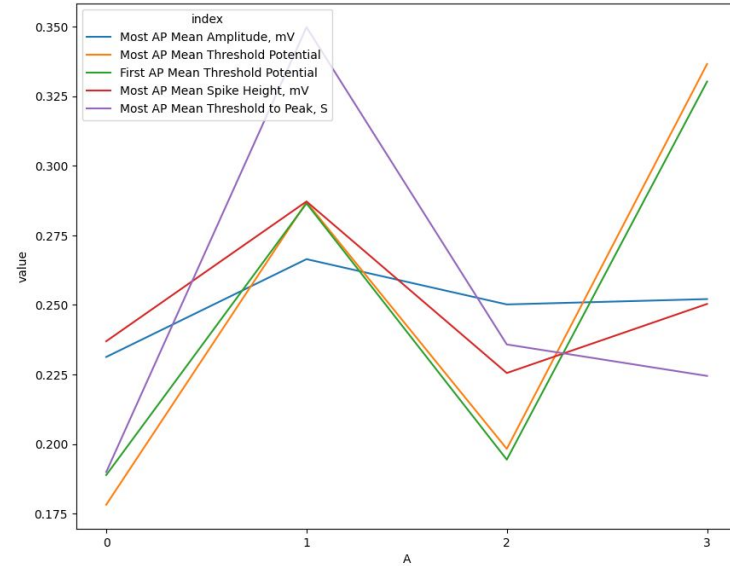
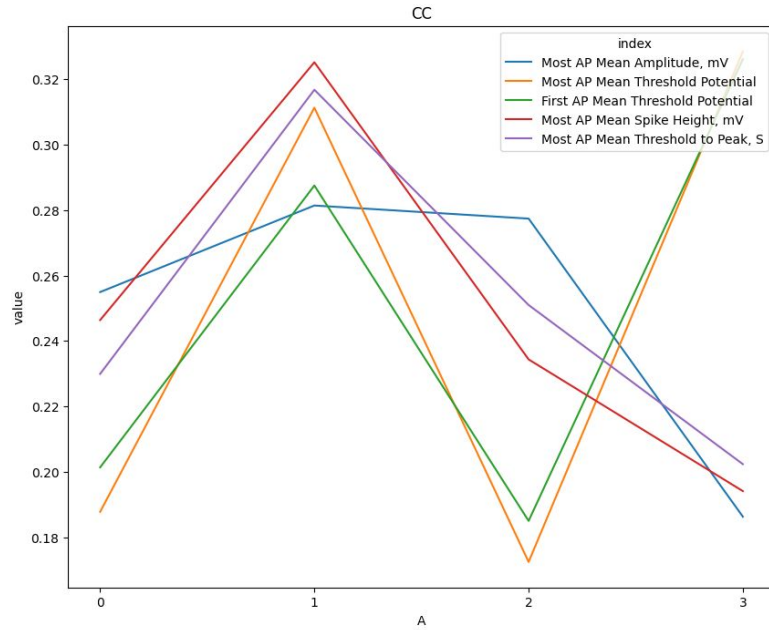
Std over time by condition (no time ranges)



Coefficient of variation over time (no time ranges)



Coefficient of variation over time



Thora's email

Dear all,

Thank you Liviu to share this slides.

Sorry that I was not able to be present at the meeting I was at a conference out of the country.

I do think some of these data have been preliminary analysed but Irina before and then also the number of synaptic events, all we needed was separation of the bimodal curve of the synaptic input sizes into miniature and spontaneous. Is this still being in the plan?