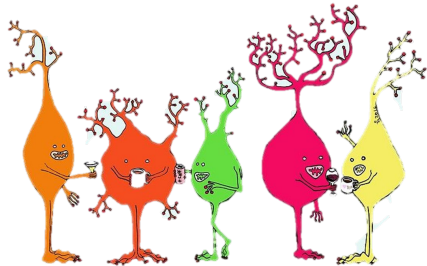


Pod name : Bichak

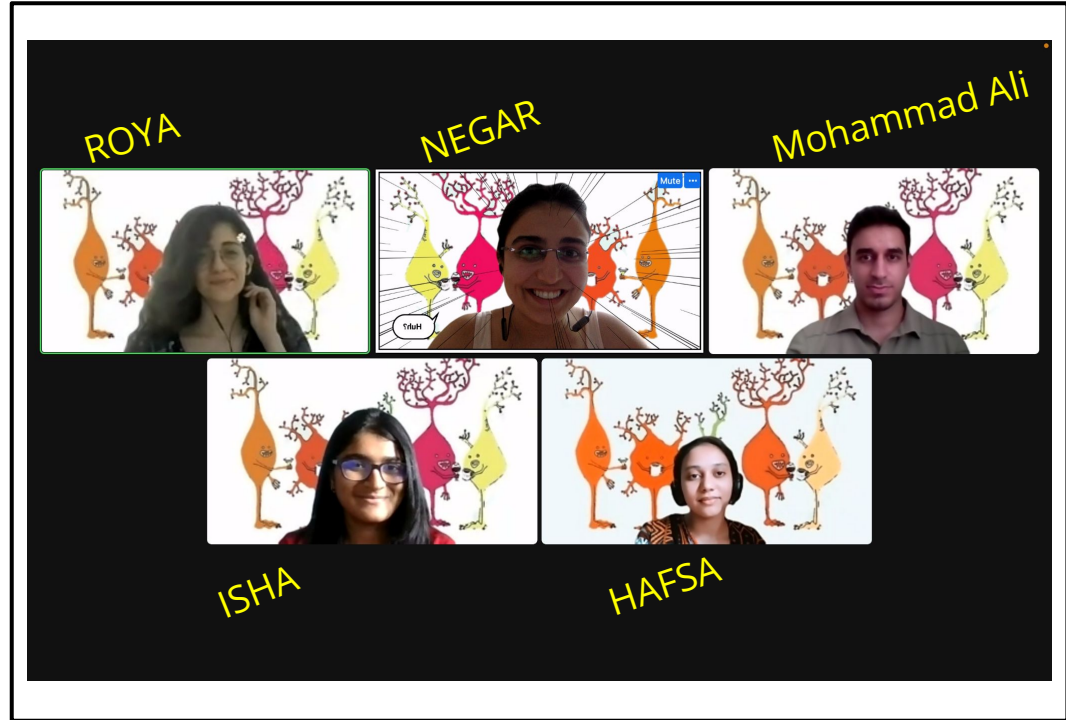
Our great TAs: Rishabh & Ritu

Group name :

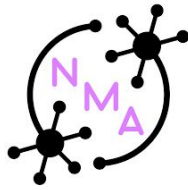
Confused Neurons



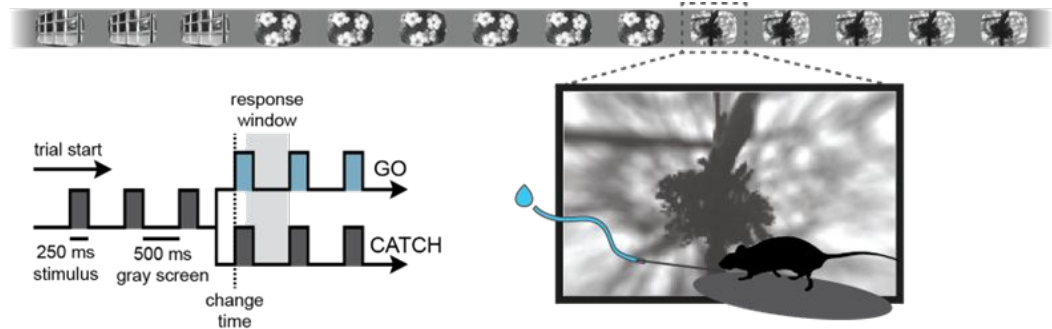
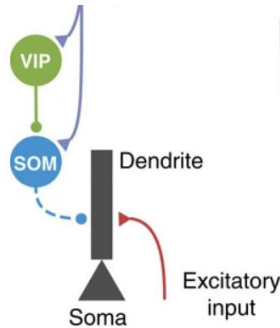
What have Allen's mice done?

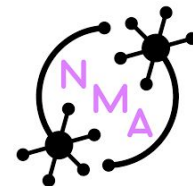


Questions:

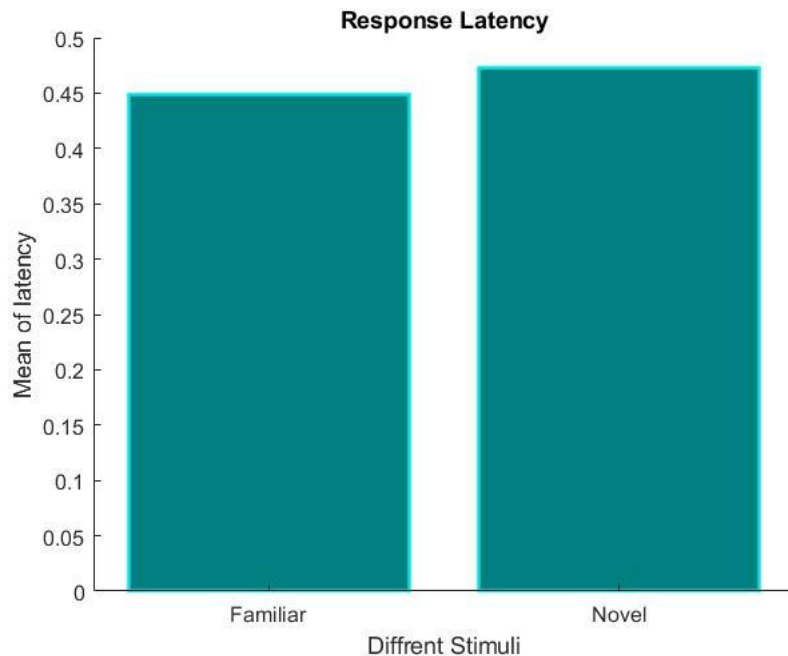


- Is there a difference in response latency between novel sessions and familiar sessions?
- Can we show mice detection is better in Familiar sessions ?
- Can we use SST/VIP spiking activity to predict Hit and Miss trials?
- Can we use SST spiking activity to predict novel and familiar images?

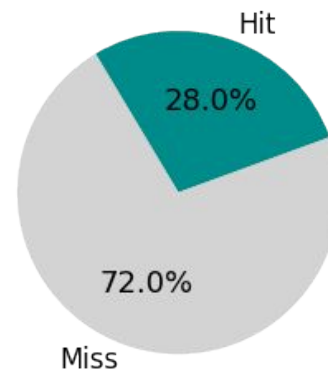




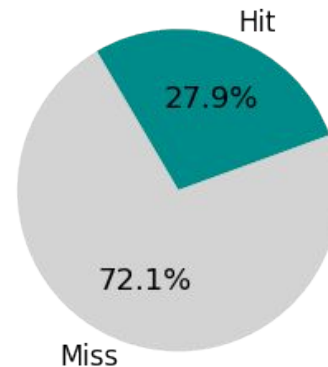
Behavioural Inference



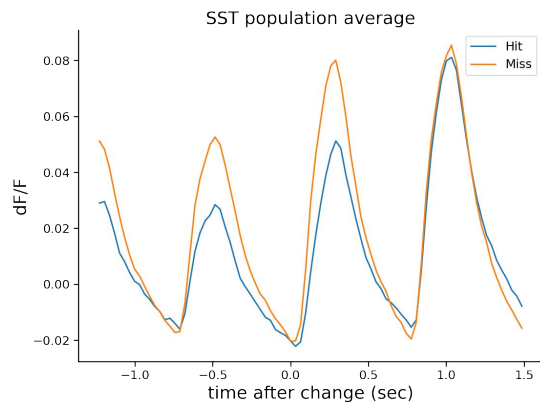
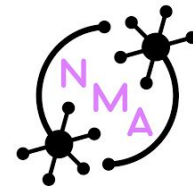
Novel sessions



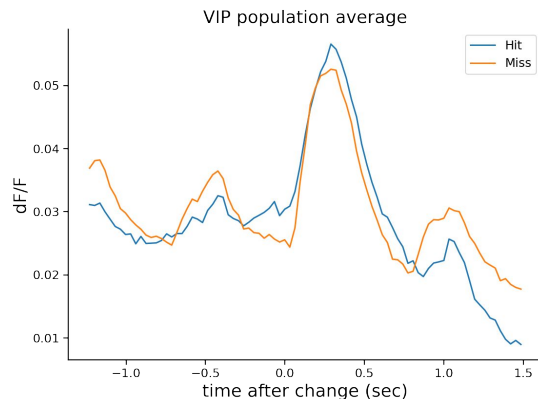
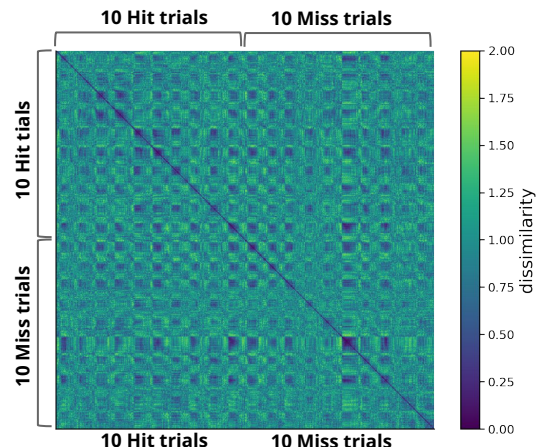
Familiar sessions



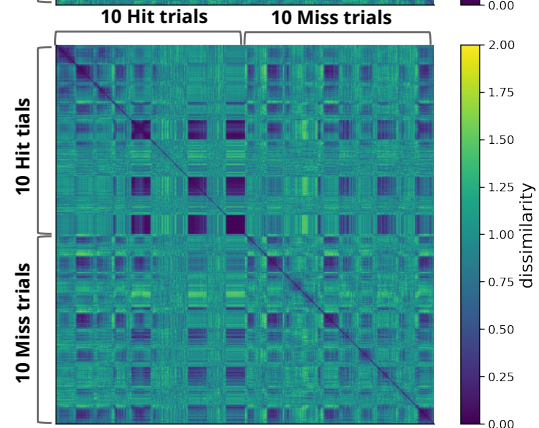
Hit/Miss ,can be predicted?



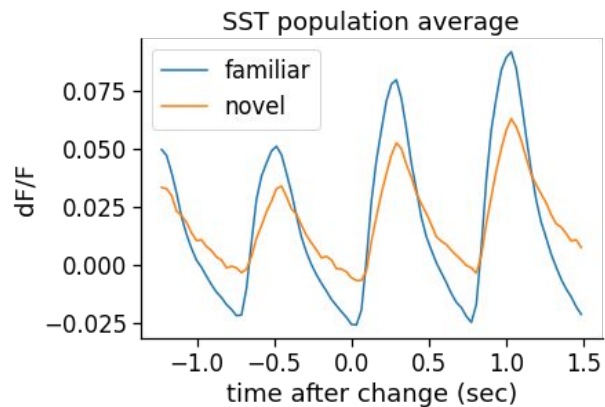
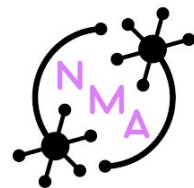
cosine similarity: 0.952



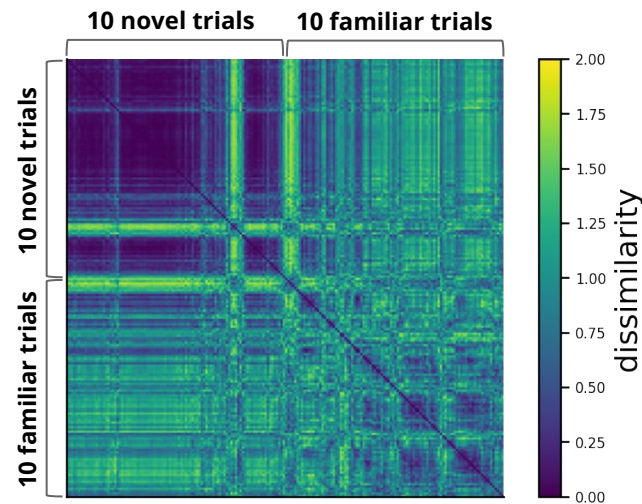
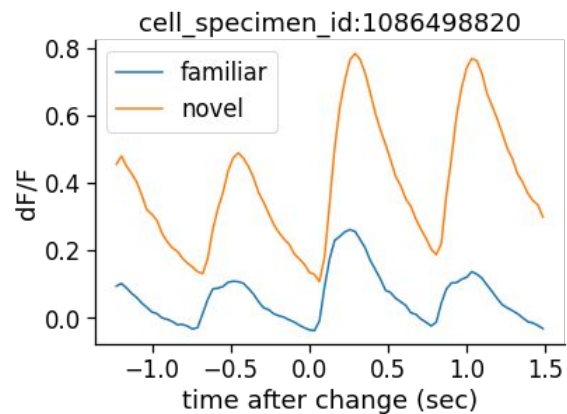
cosine similarity: 0.988



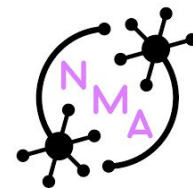
Familiar/Novel prediction



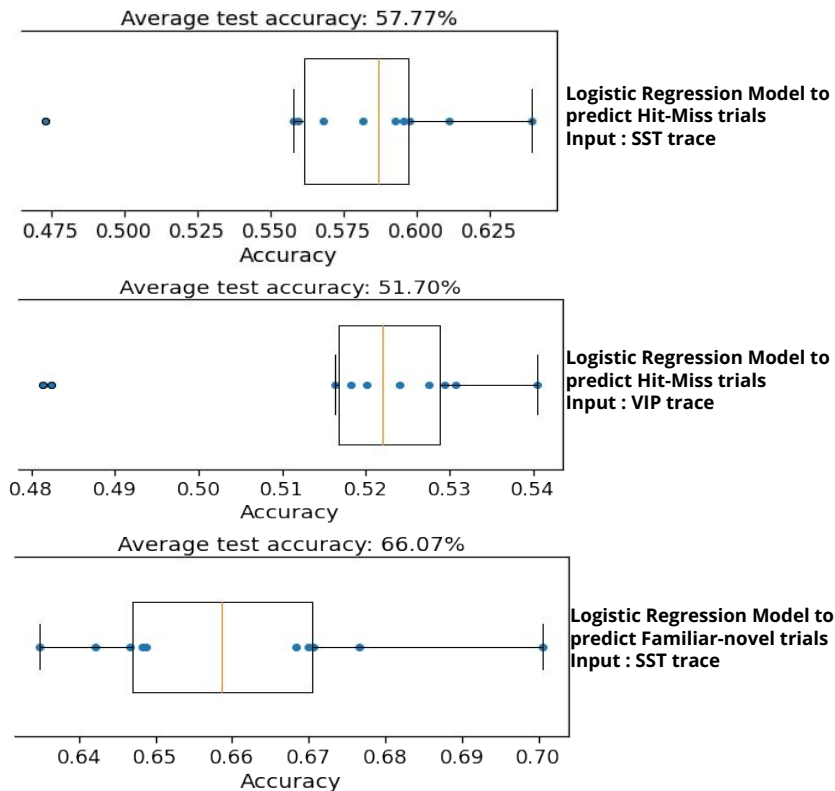
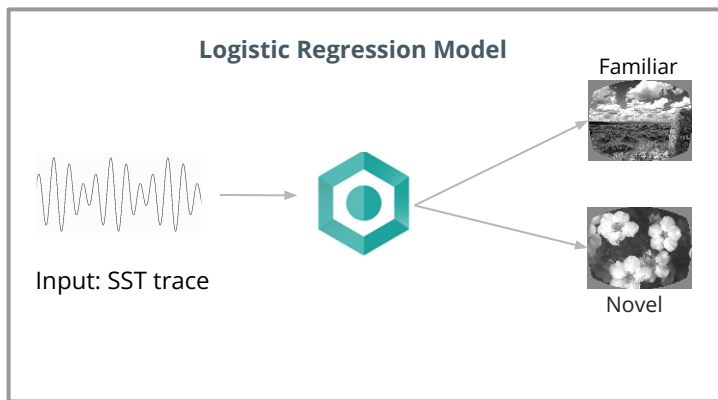
cosine similarity: 0.906



Prediction models



- Trying well known and simple model
- STT cells model behave the same with respect to the novel and familiar images?



Conclusion

- The activity of SST in novel and familiar trials was almost different.
- SST spiking activity could be used to predict stimuli in models related to vision.
- **Further study:** Comparing SST/VIP activity in pre-changed and changed trials would be helpful.

