

Group 2: Project 4

- 1) Implement the temporal context model described by Manning et al. (2011) and show how it accounts for neural context reinstatement.
- 2) Test whether the model can explain the findings of Howard et al. (2012).
- 3) Discuss why neural similarity shows forward-backward symmetry, but the free recall data show an asymmetry. How can the temporal context model account for this?

References:

Howard, M. W., Viskontas, I. V., Shankar, K. H., & Fried, I. (2012). A neural signature of mental time travel in the human MTL. *Hippocampus*, *22*, 1833–1847.

Manning, J. R., Polyn, S. M., Baltuch, G., Litt, B., & Kahana, M. J. (2011). Oscillatory patterns in temporal lobe reveal context reinstatement during memory search. *Proceedings of the National Academy of Sciences*, *108*, 12893–12897.