





A Biologically Plausible Spiking Neural Model of Eyeblink Conditioning in the Cerebellum

²National Research Council of Canada Waterloo Collaboration Centre | https://nrc.canada.ca/



comparison. [4]

(E) Learned eyelid

velocity trajectory

decoded from the

Purkinje cell activities.



[3] Llinás, R. R. (2010). Olivocerebellar System. In G. Shepherd & S. Grillner (Eds.), Handbook of Brain Microcircuits (2nd ed.). [4] Heiney, S. A., Wohl, M. P., Chettih, S. N., Ruffolo, et al. (2014). Cerebellar-dependent expression of motor learning during eyeblink conditioning in head-fixed mice. Journal of Neuroscience. [5] Voelker, A. R., & Eliasmith, C. (2018). Improving Spiking Dynamical Networks: Accurate Delays, Higher-Order Synapses, and Time Cells. *Neural Computation*, 30(3).