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| ***Year*** | ***2015*** | | ***2016*** | | | ***2017*** | | |
| Term | *MT* | *HT* | *TT* | *Sum* | *MT* | *HT* | *TT* | *Sum* |
| *Reproducing bi-directional change in M4 neuron in a network of integrate and fire neurons with STDP in a circuit with dopaminergic feedback loop..*  *Refine simulations by adding information from Higue et al 2015 on output neurons and test learning rules.*  *Make experimental verifiable predictions that rules out or validates learning mechanism*  *Write paper on bi-directional valence learning* |  |  |  |  |  |  |  |  |
| *Model a recurrent mushroom body with state dependent memories* |  |  |  |  |  |  |  |  |
| *Write second paper* |  |  |  |  |  |  |  |  |
| *Investigate complex dynamics of dopaminergic neurons (i.e relief learning)* |  |  |  |  |  |  |  |  |
| *DPhil write up* |  |  |  |  |  |  |  |  |