

NEVR3004

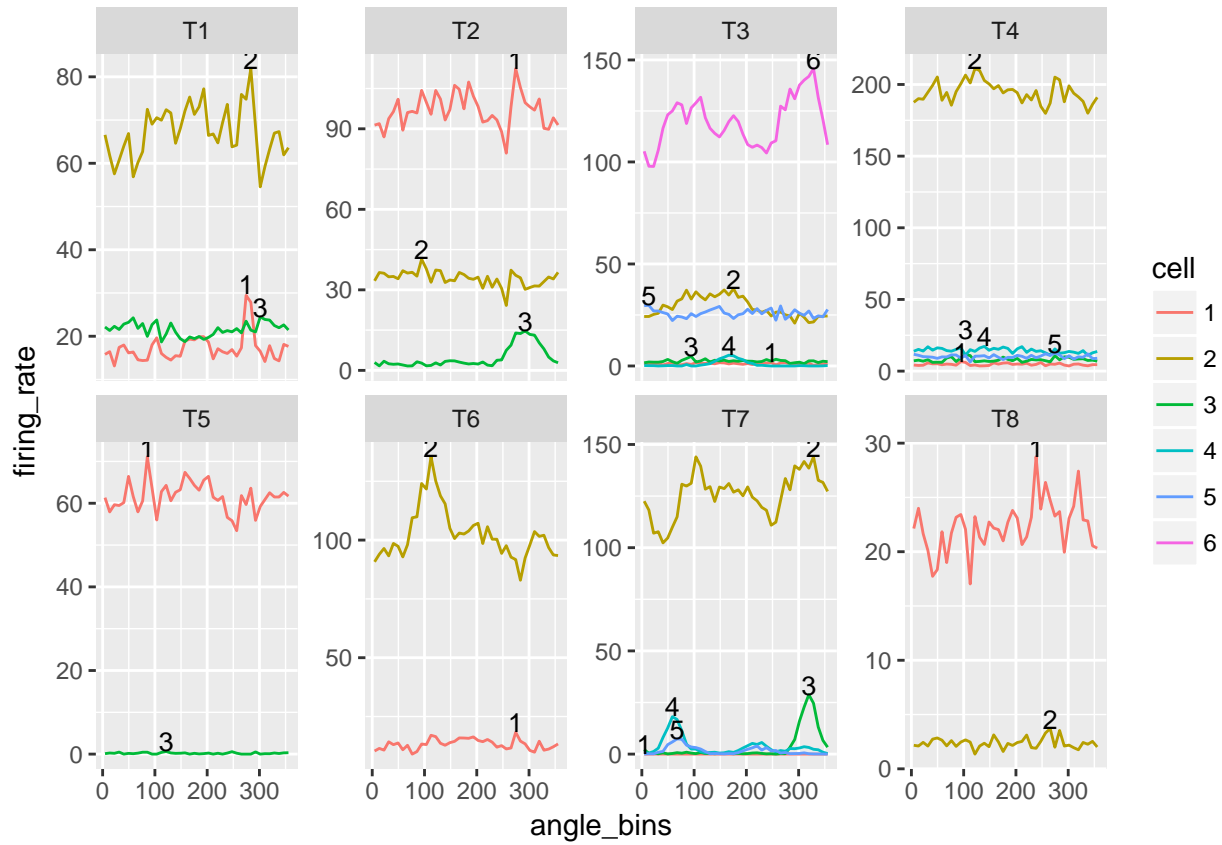
Rasmus Munter

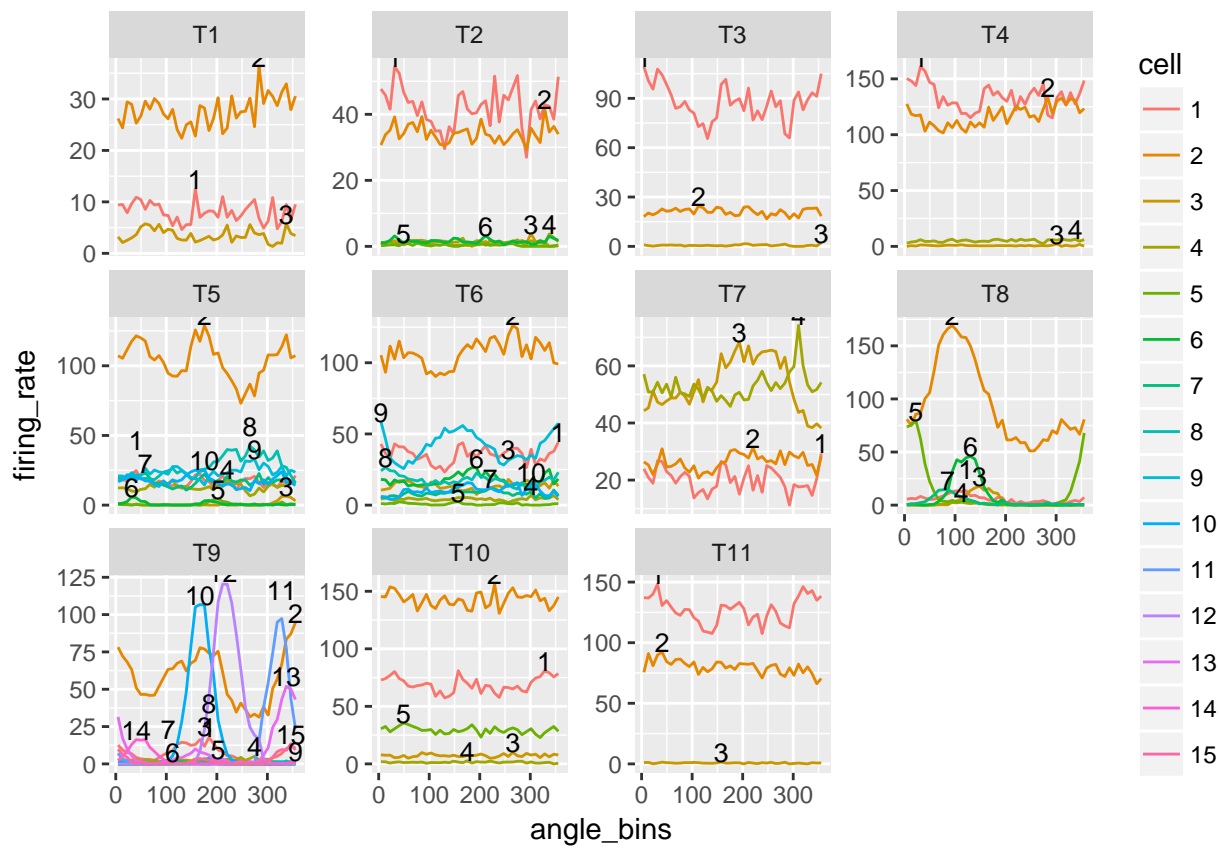
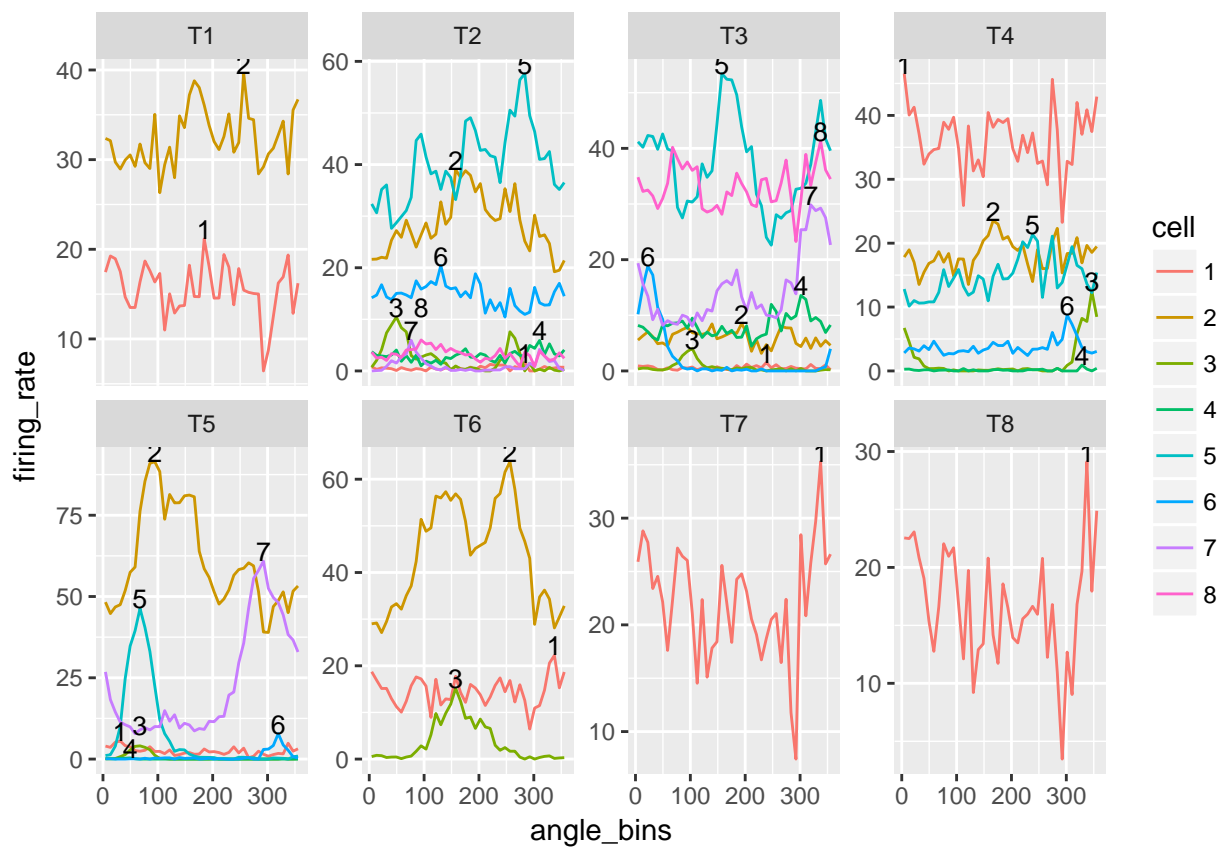
May 2, 2018

Project 1

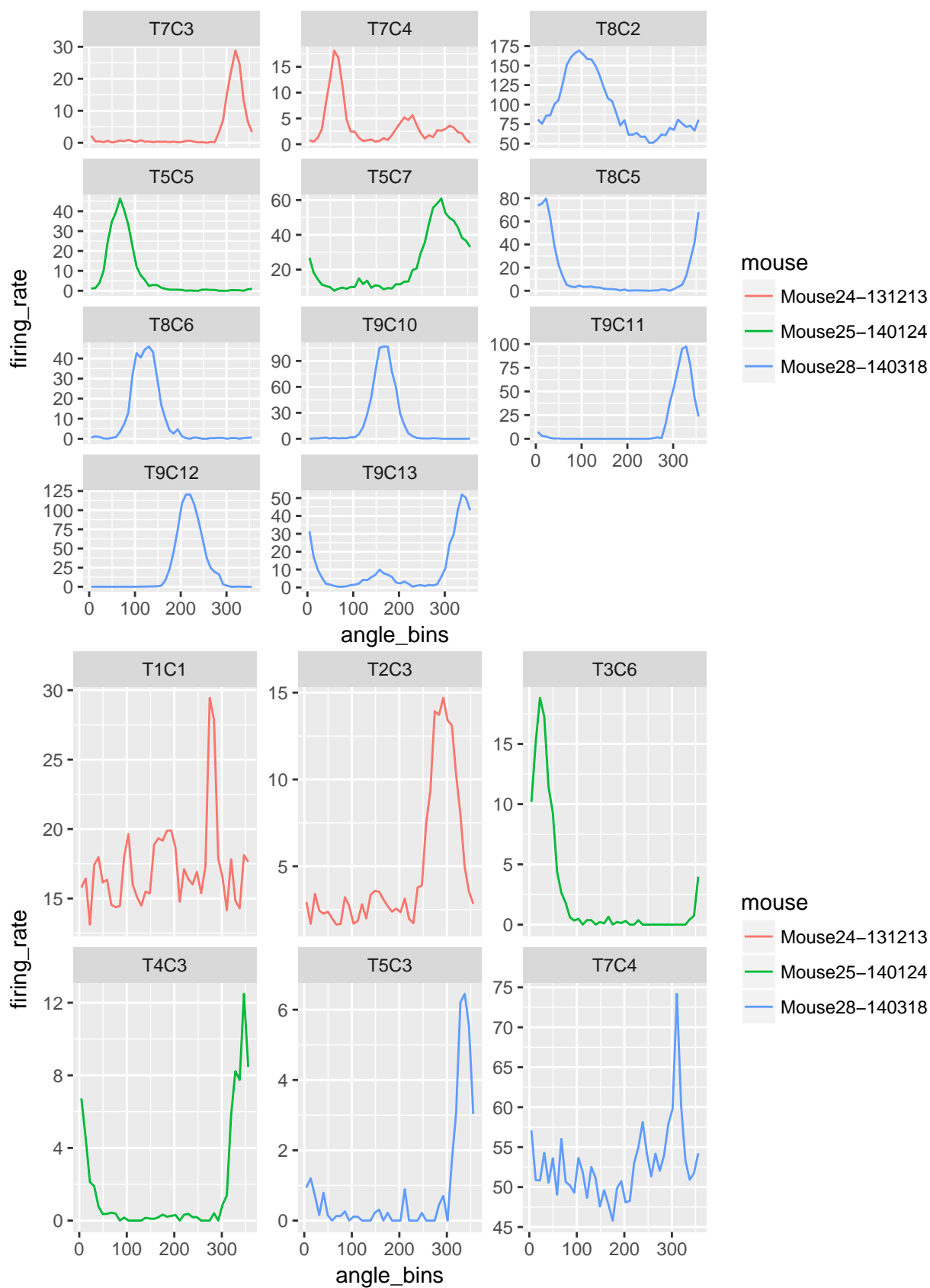
This is an investigation of neuron specificity to head direction in mice. The dataset consists of finished data from tetrodes in a mouse brain and has been preprocessed to extract the firing of individual neurons. To simplify finding neurons with a relation with head angle the following plot.

Visualising cells

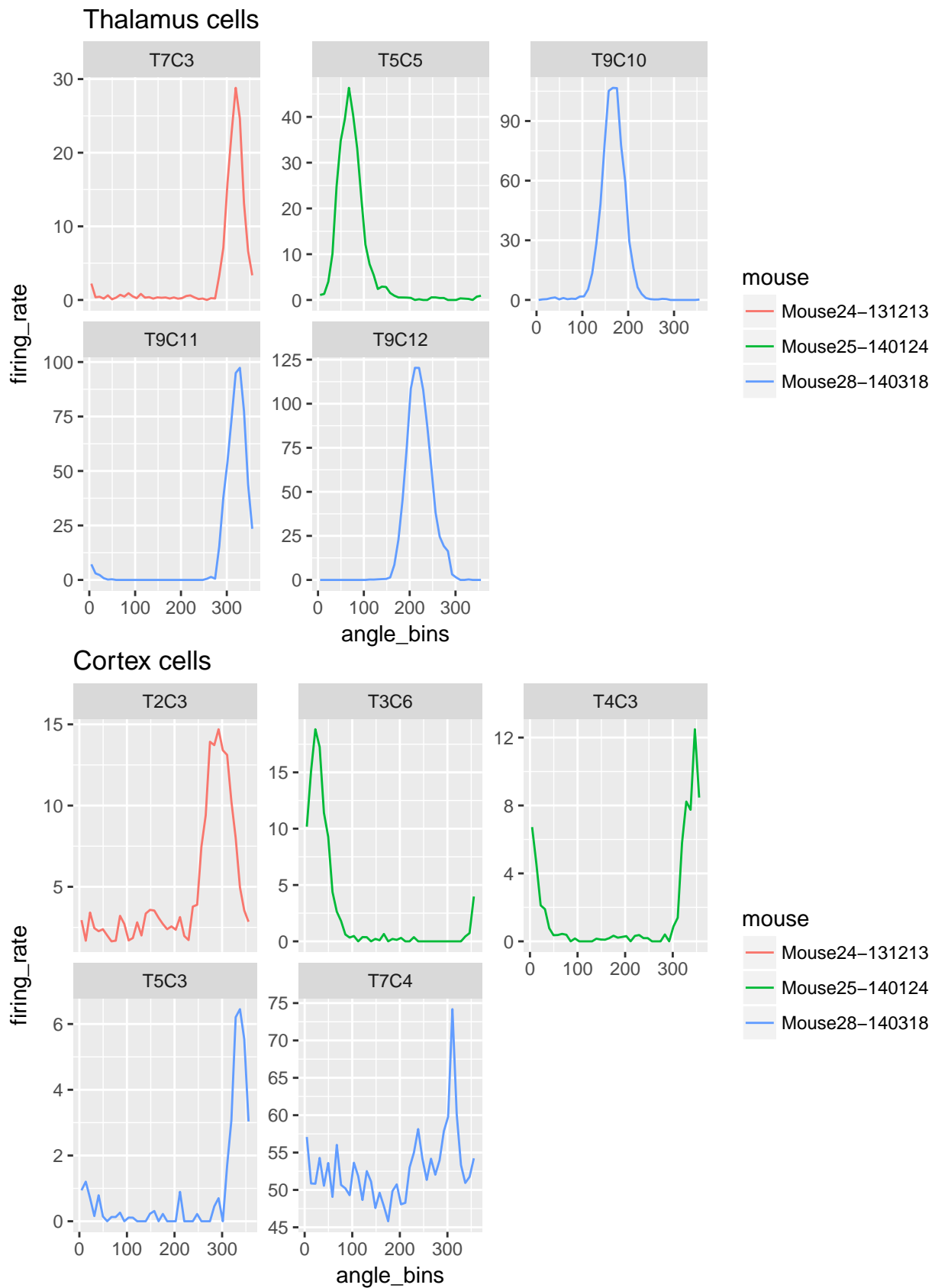




Extracting only good cells from the above



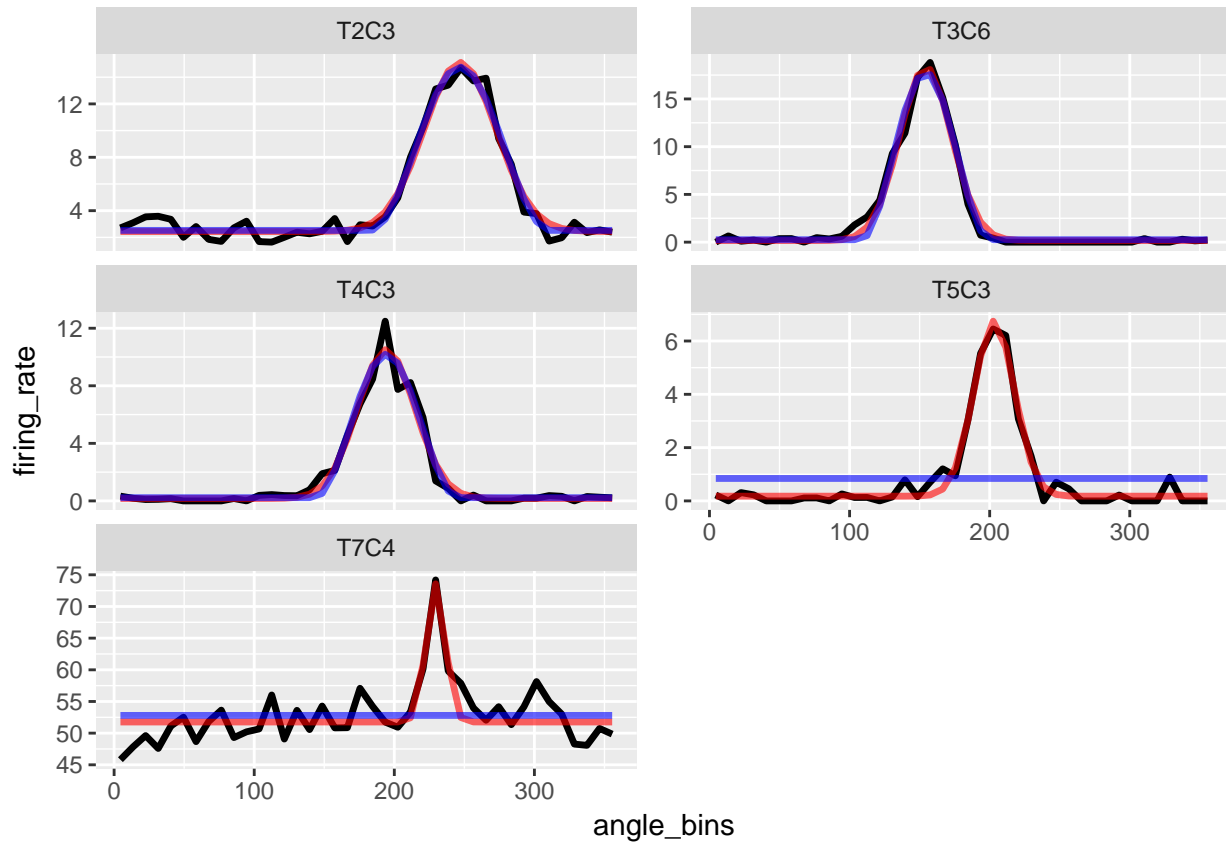
Extracting only good cells from the above



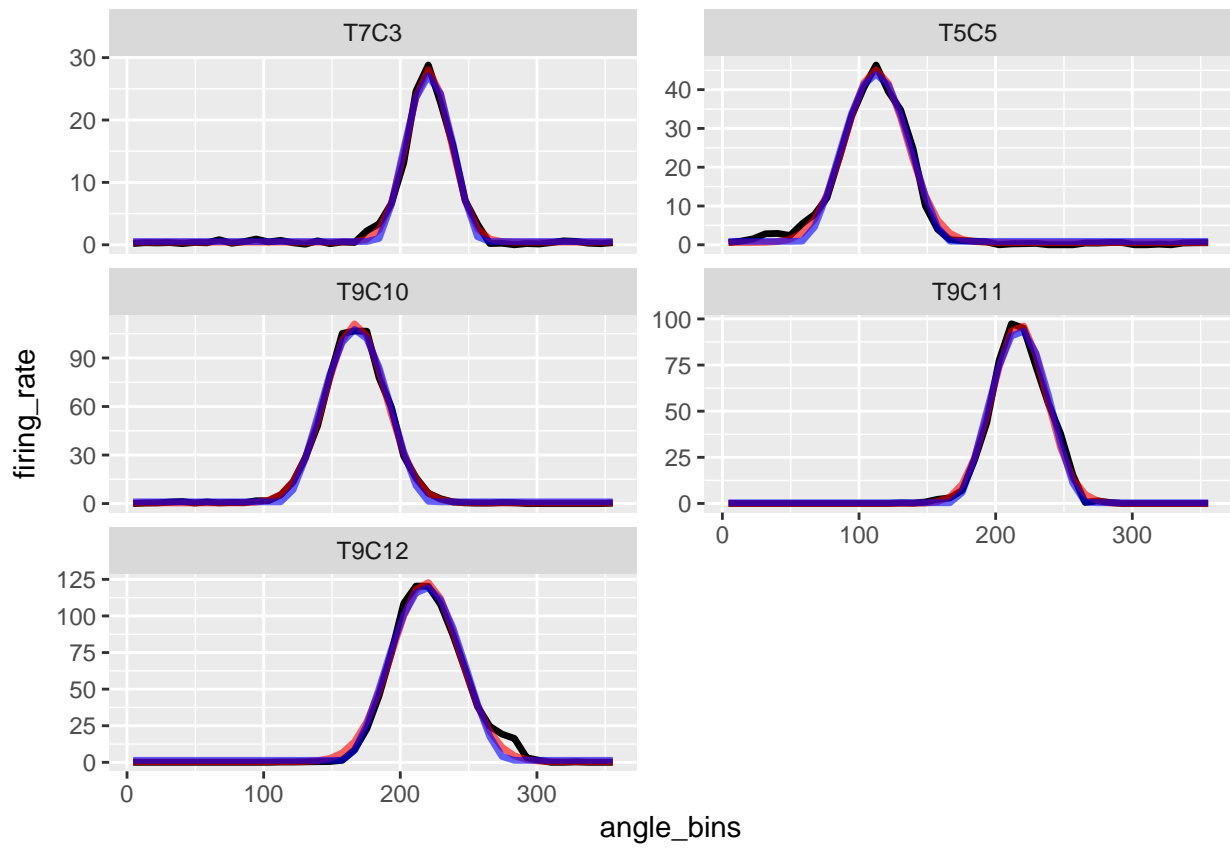
Shift data where tuning curves are close to border

Project 2

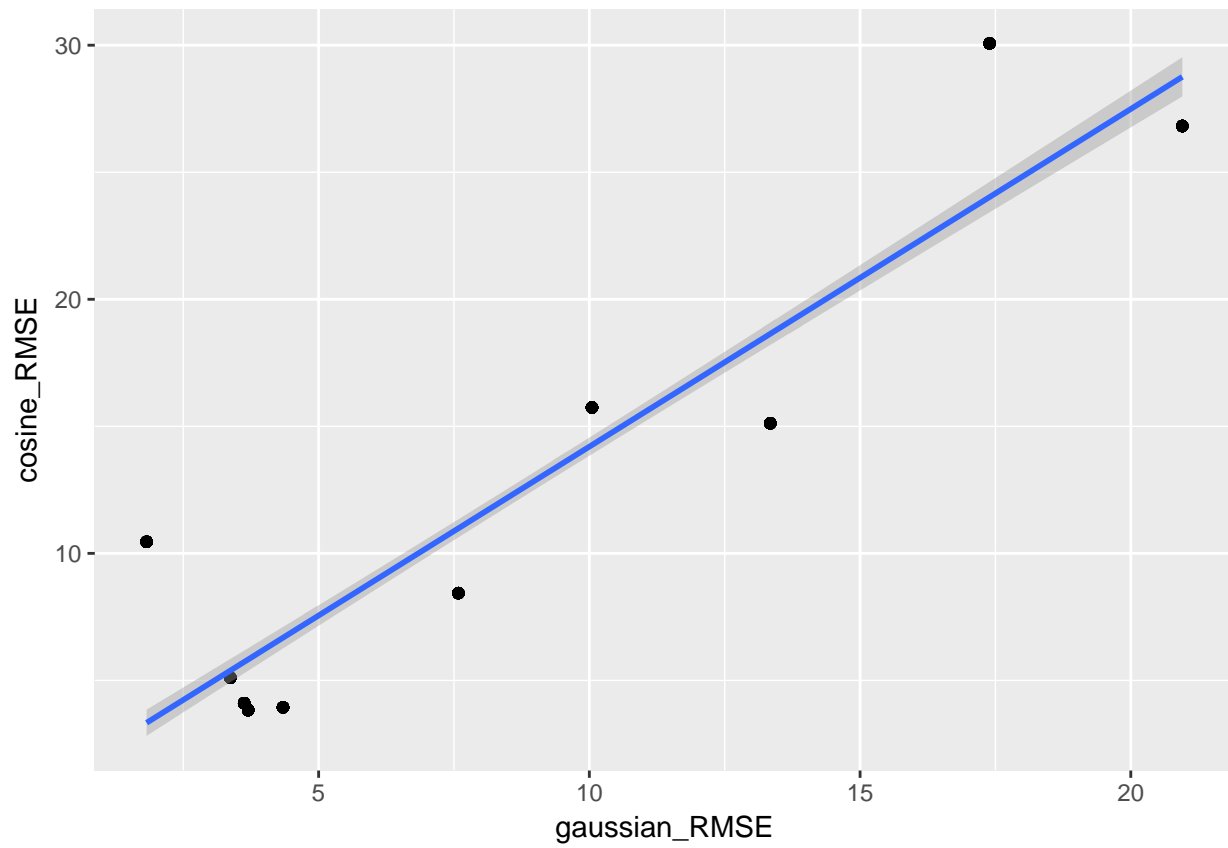
Cortex cell model



Thalamus cell model

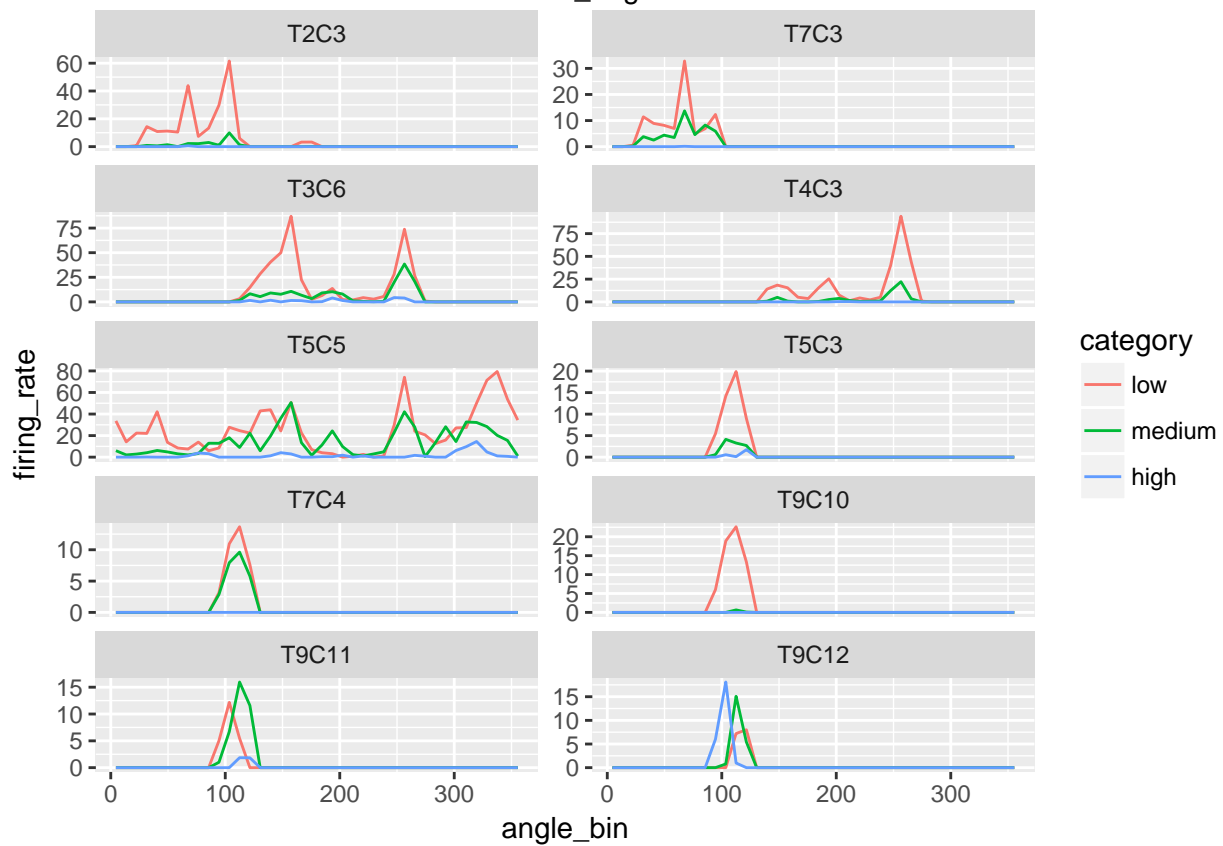
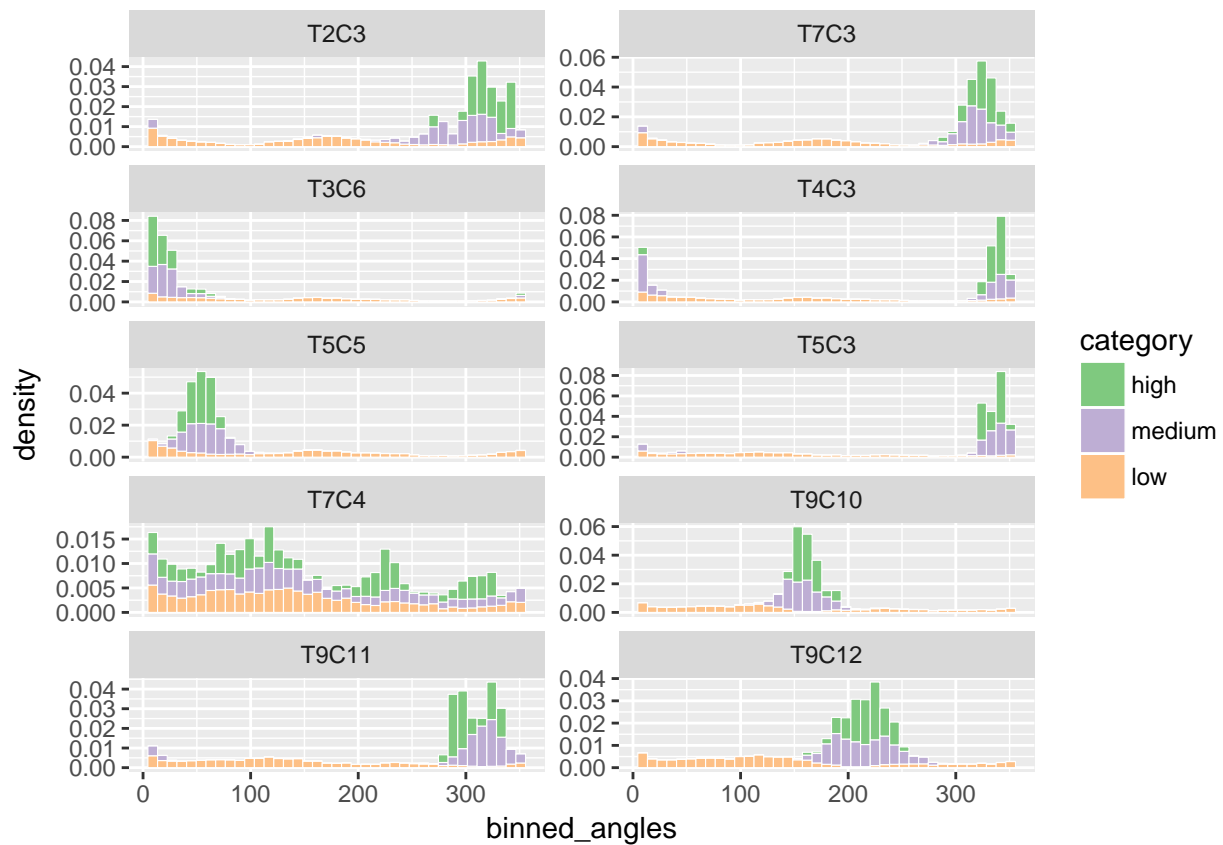


RMSE plot



Project 4

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## Warning: Removed 15364531 rows containing non-finite values (stat_bin).
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Project 5