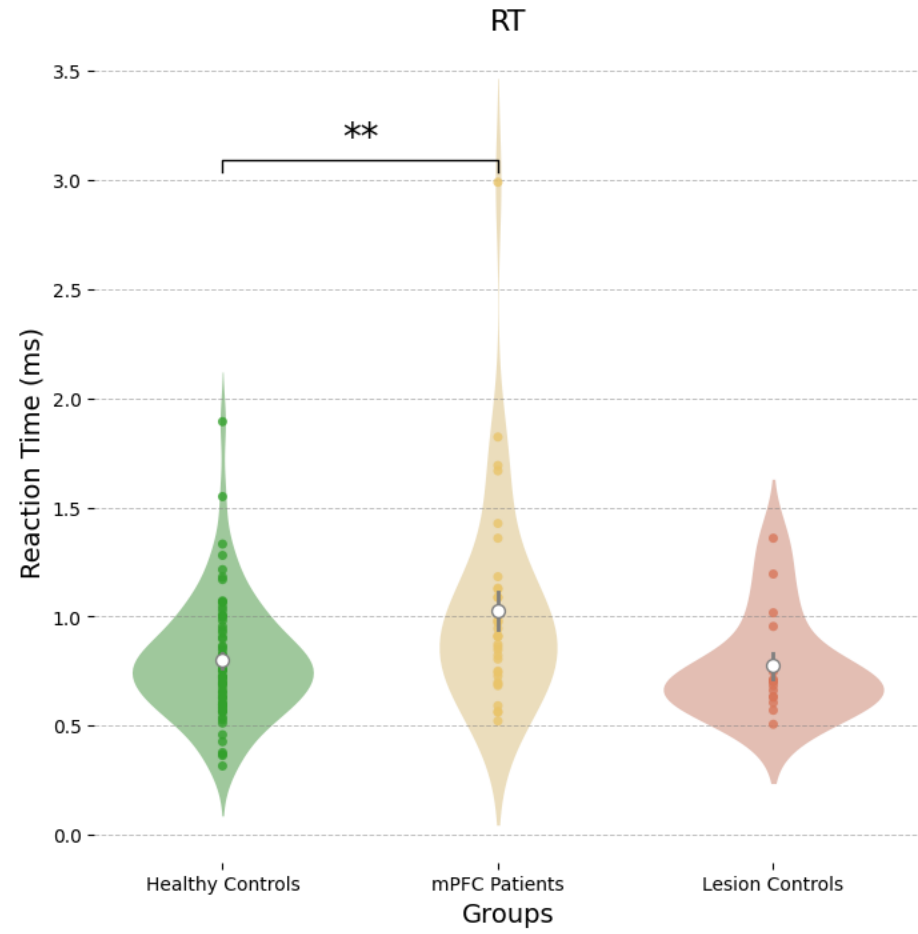
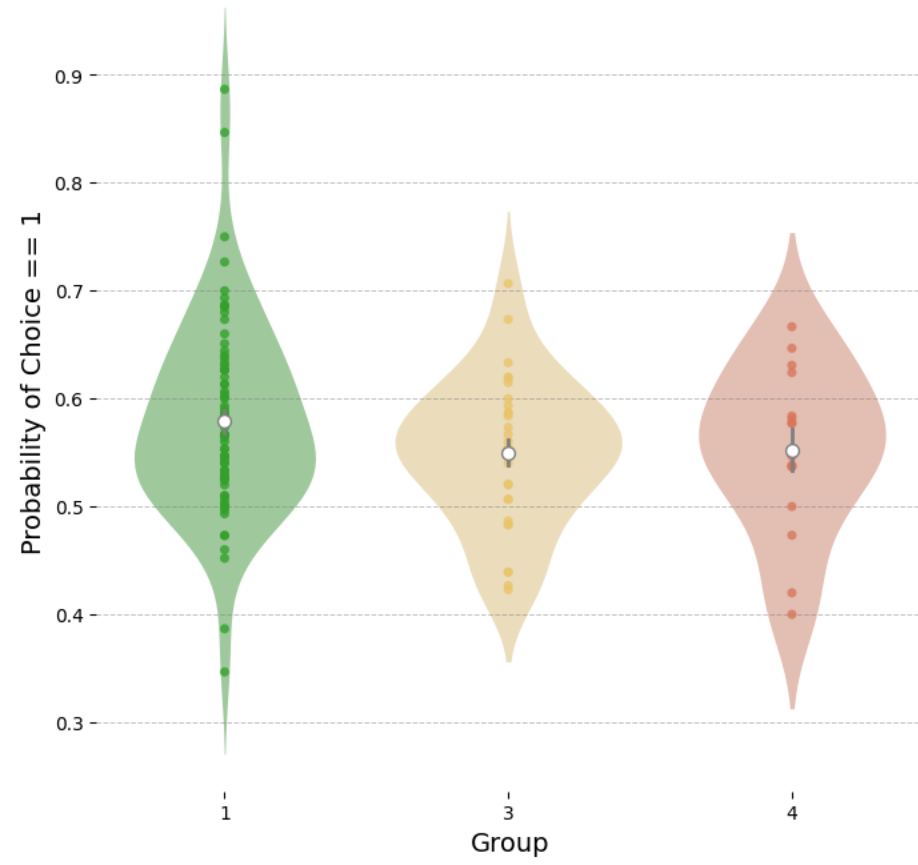


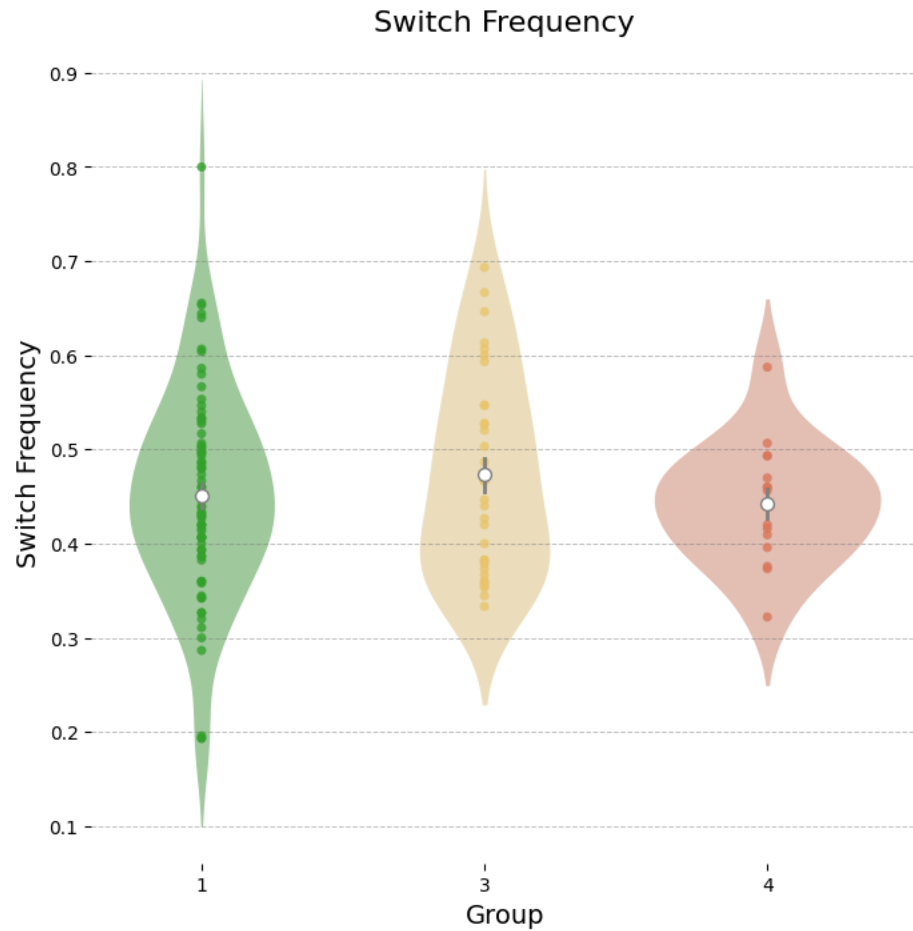
- Group 1 indicates Healthy Control
- Group 3 indicates mPFC patients
- Group 4 indicates Lesion Control

# Basic behavioral plots



P(work)





Group statistics for choice change probability:

	mean	std
group		
1	0.451279	0.109785
3	0.473030	0.105032
4	0.442477	0.063250

T-test results:

Comparison between Group 1 and Group 3: p-value = 0.3340

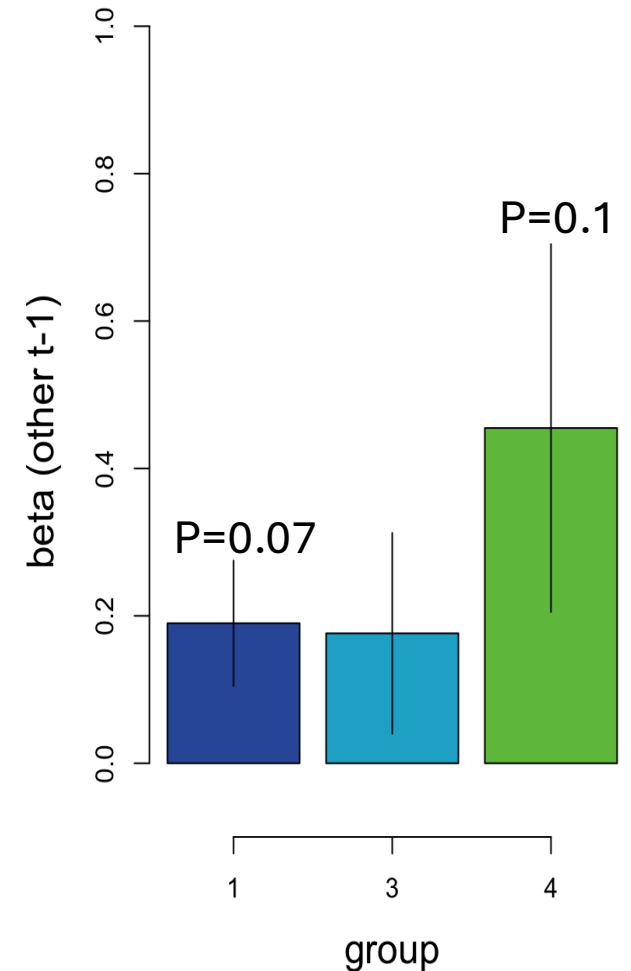
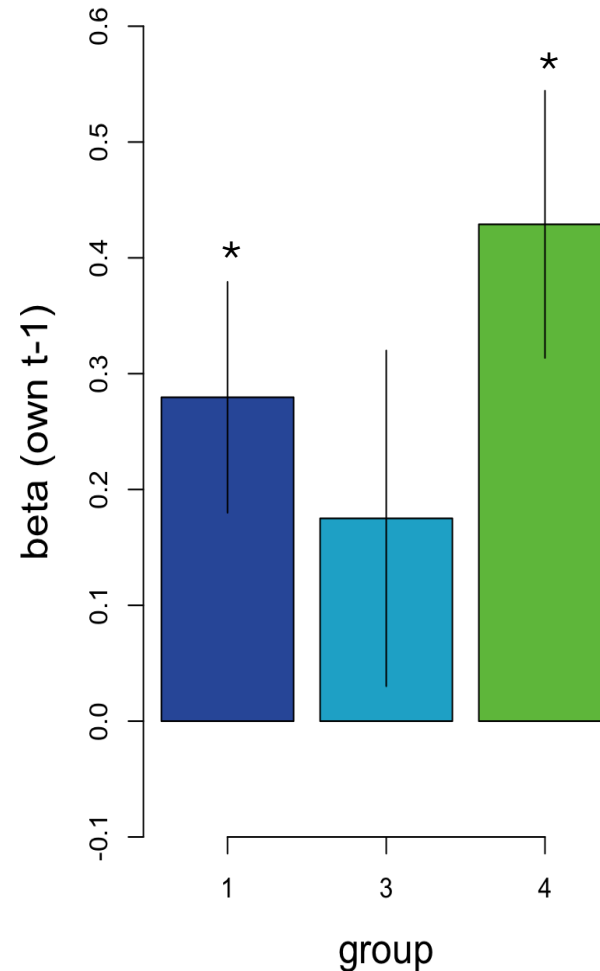
Comparison between Group 1 and Group 4: p-value = 0.6682

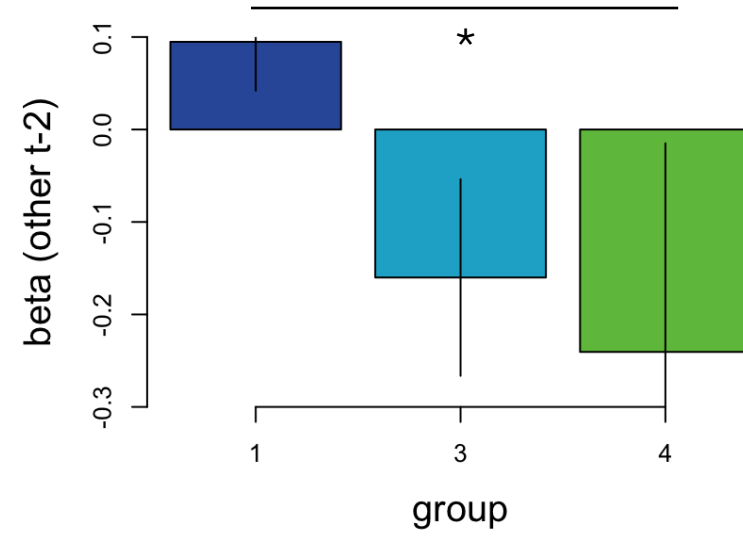
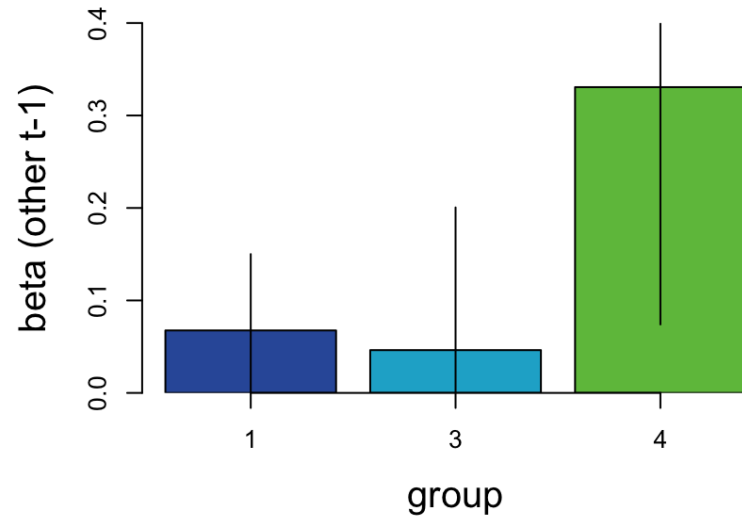
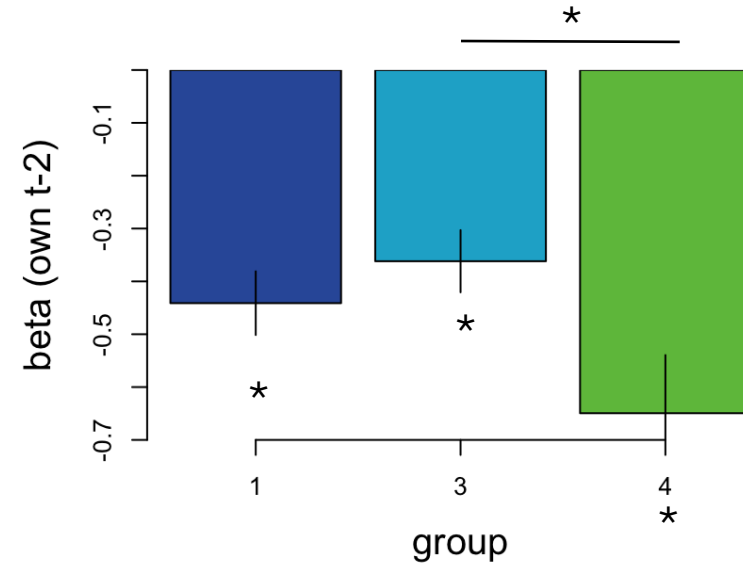
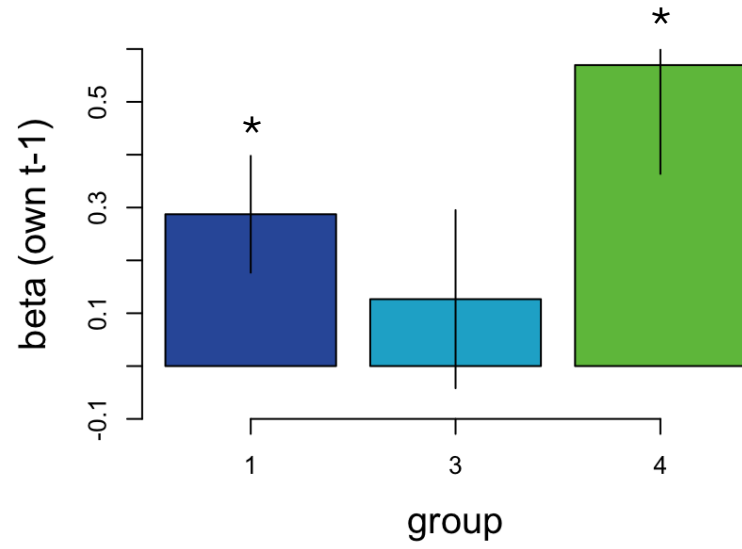
Comparison between Group 3 and Group 4: p-value = 0.2128

There is no significant difference between each group

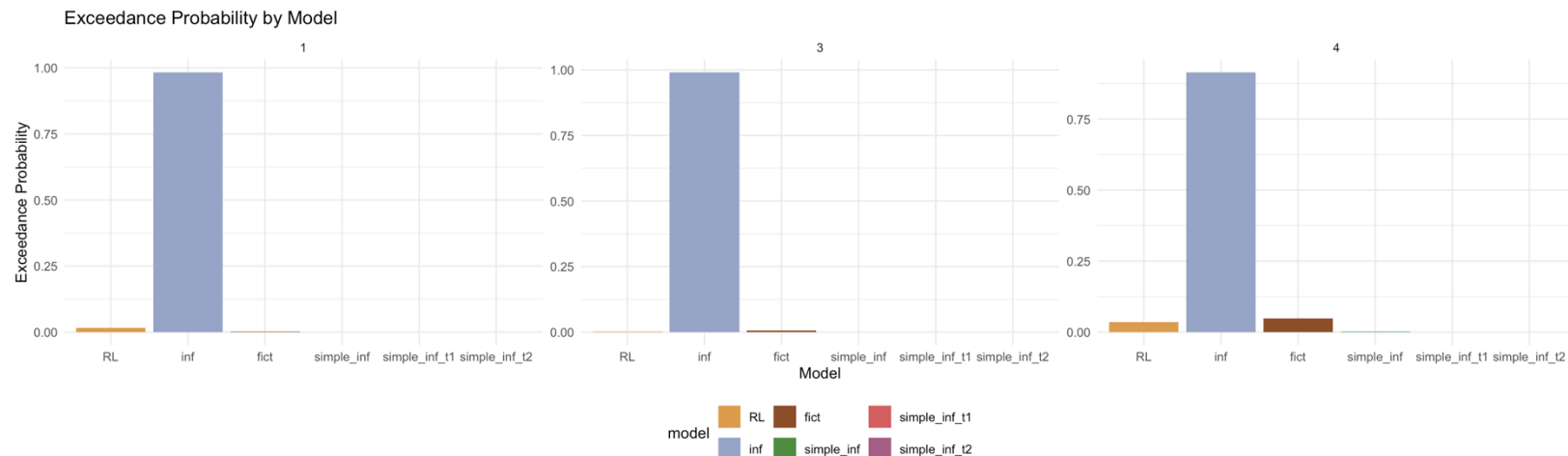
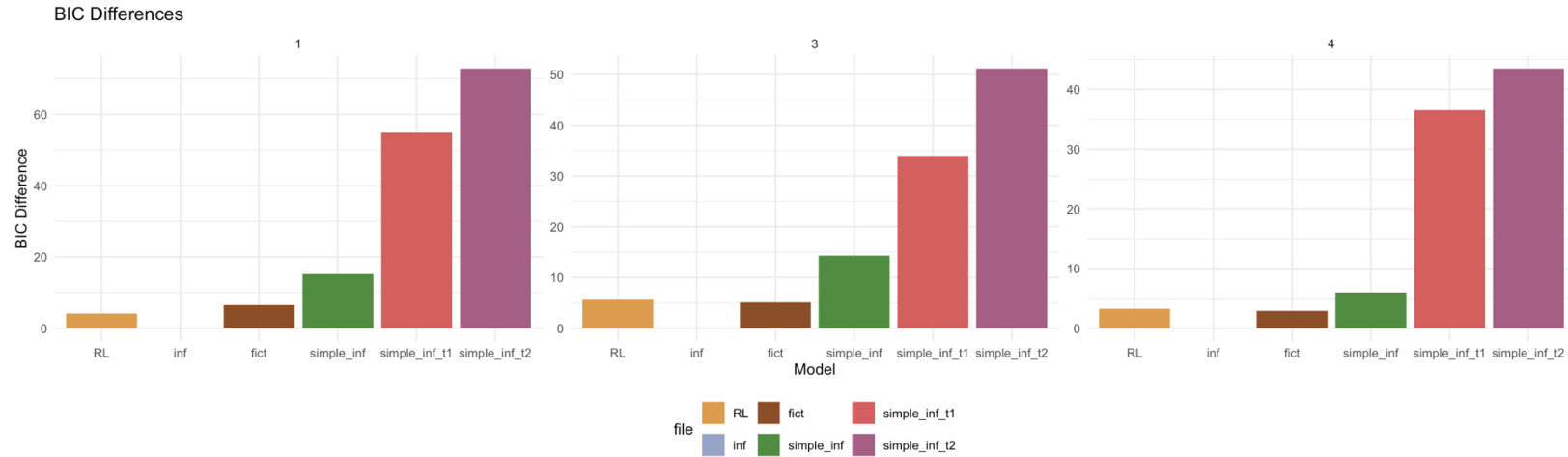
# Random effects logit regression

HC and LC tend to repeat their previous choice.  
But no difference between them.





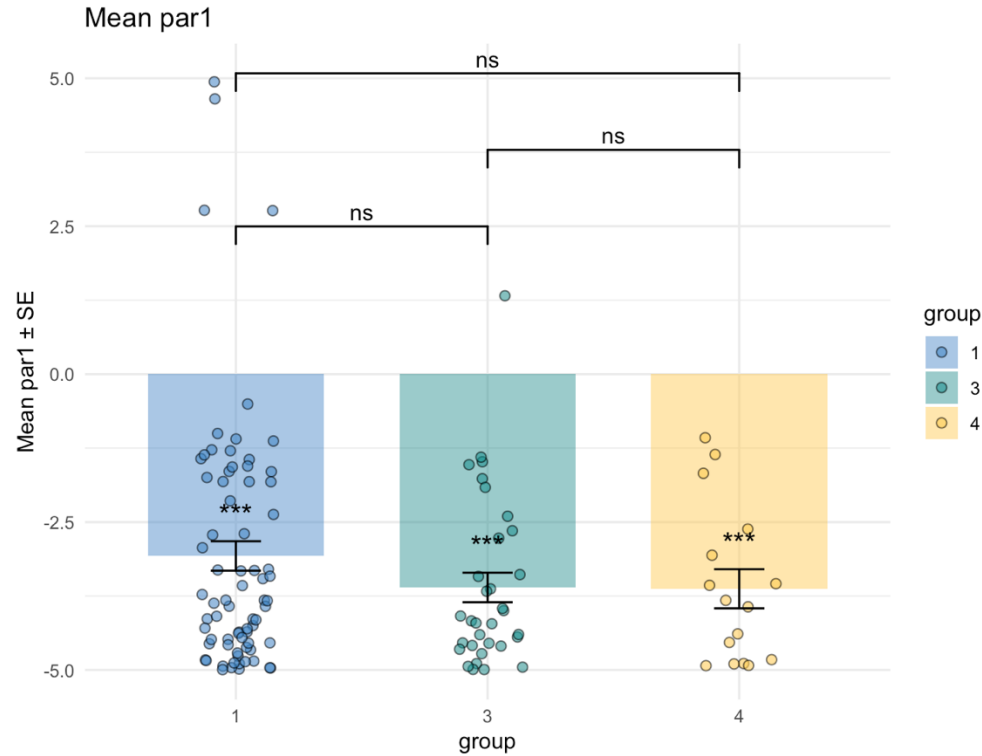
# Model comparison(without bias)



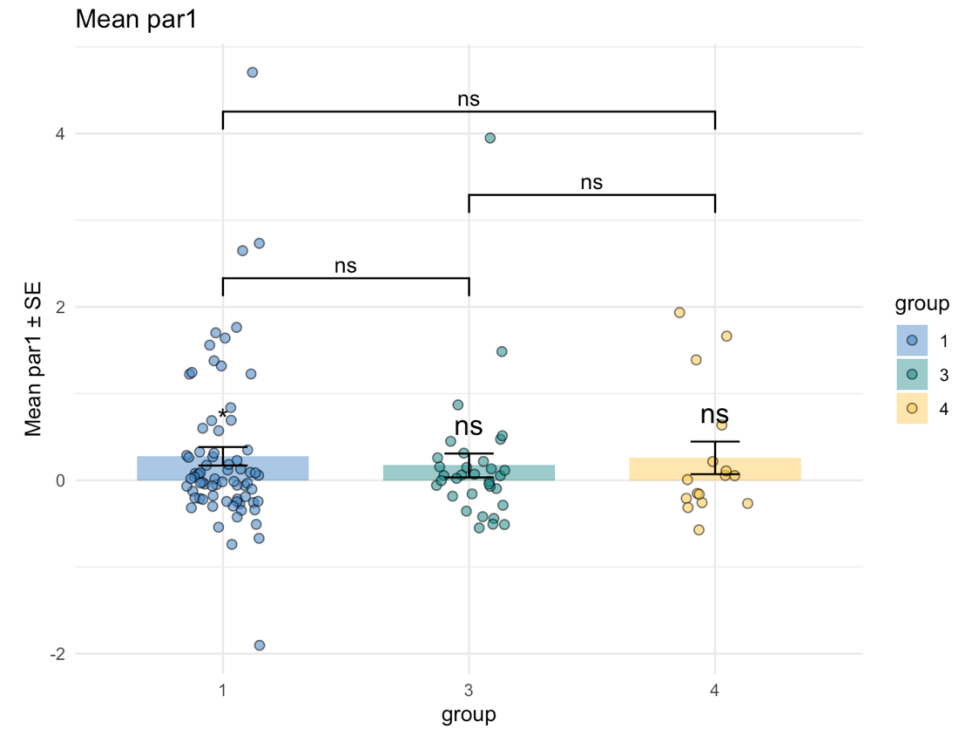
- Q\_learning models
- Influence learning models
- Fictitious play models
- Simple-influence learning models
- Simple-influence learning(consider 1 trial back)
- Simple-influence learning(consider 2 trials back)

(all the results are gained after 50k times of grid search)

# Drift rate



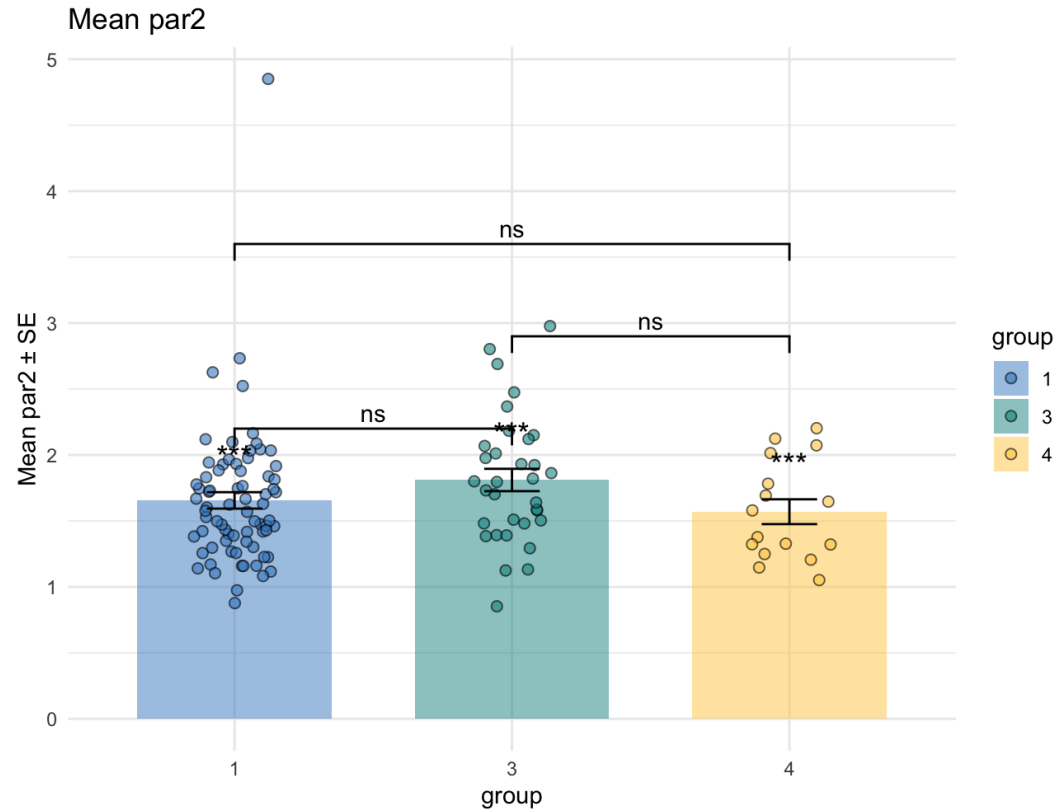
Influence model



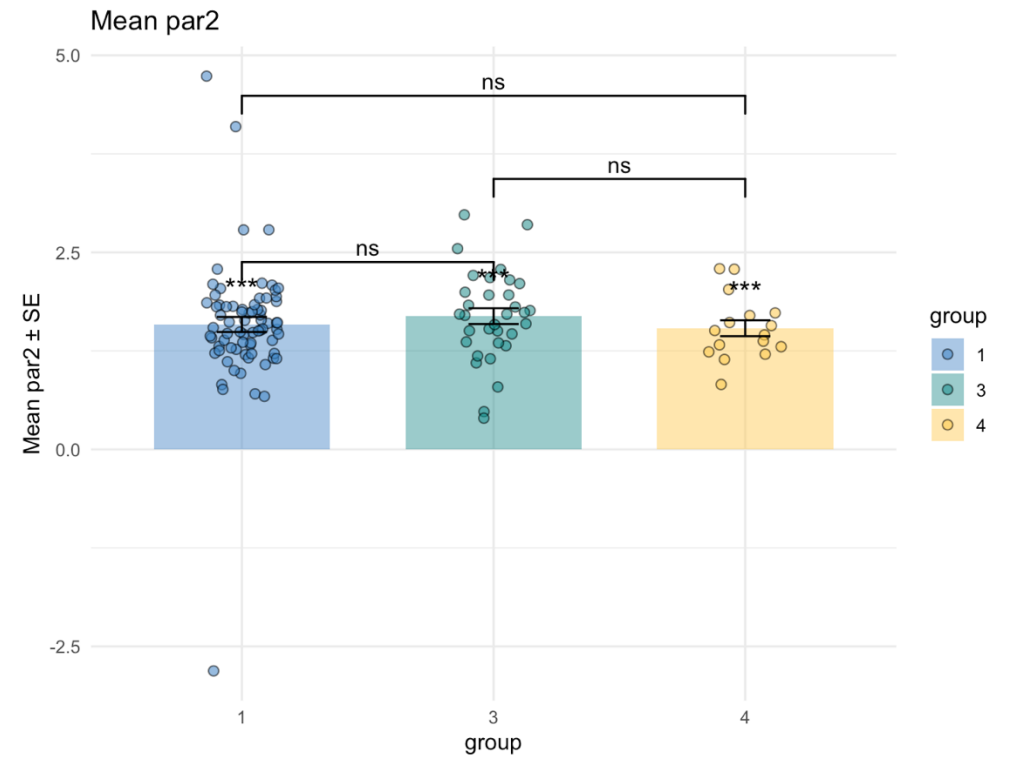
Simple influence model



# boundary

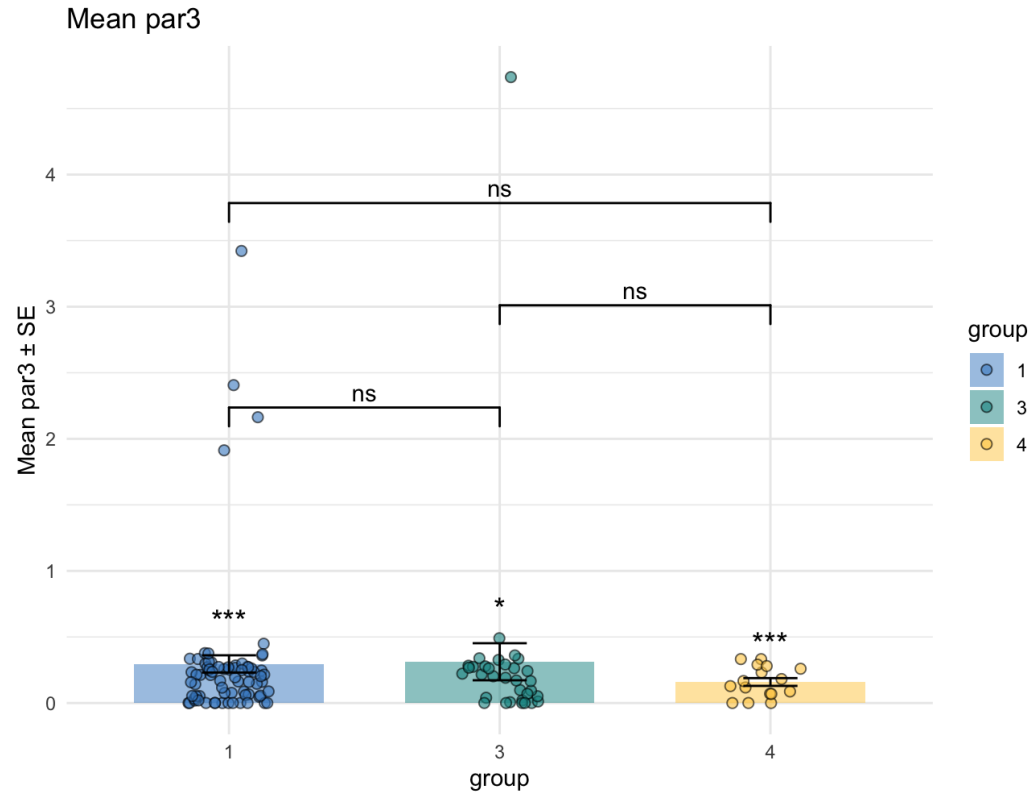


Influence model

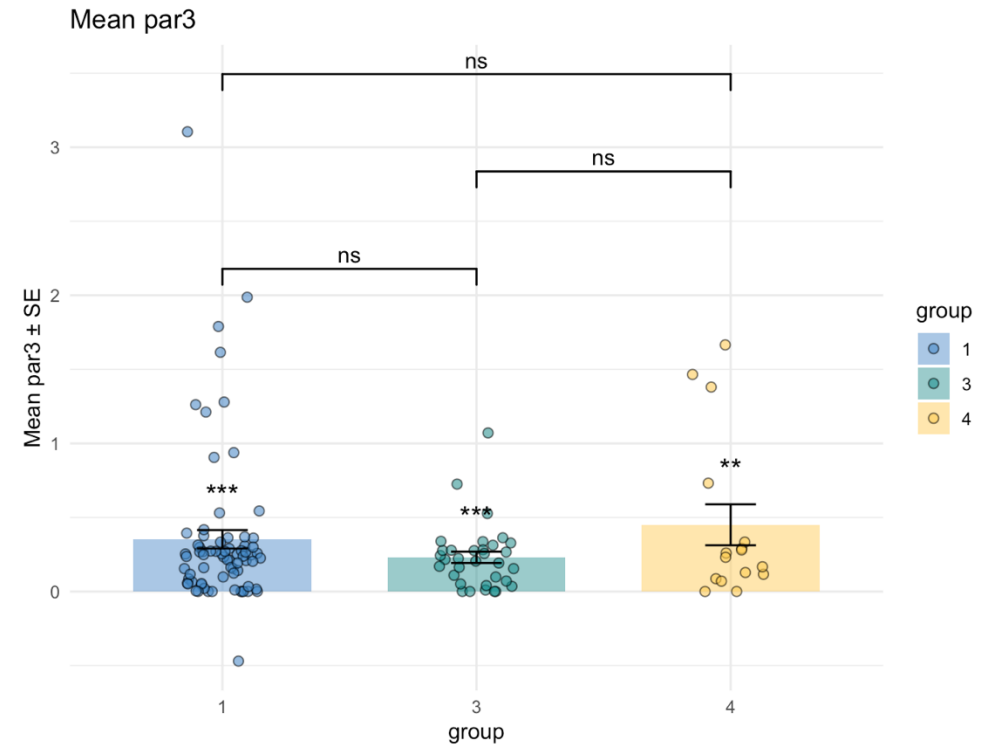


Simple influence model

# Non-decision time

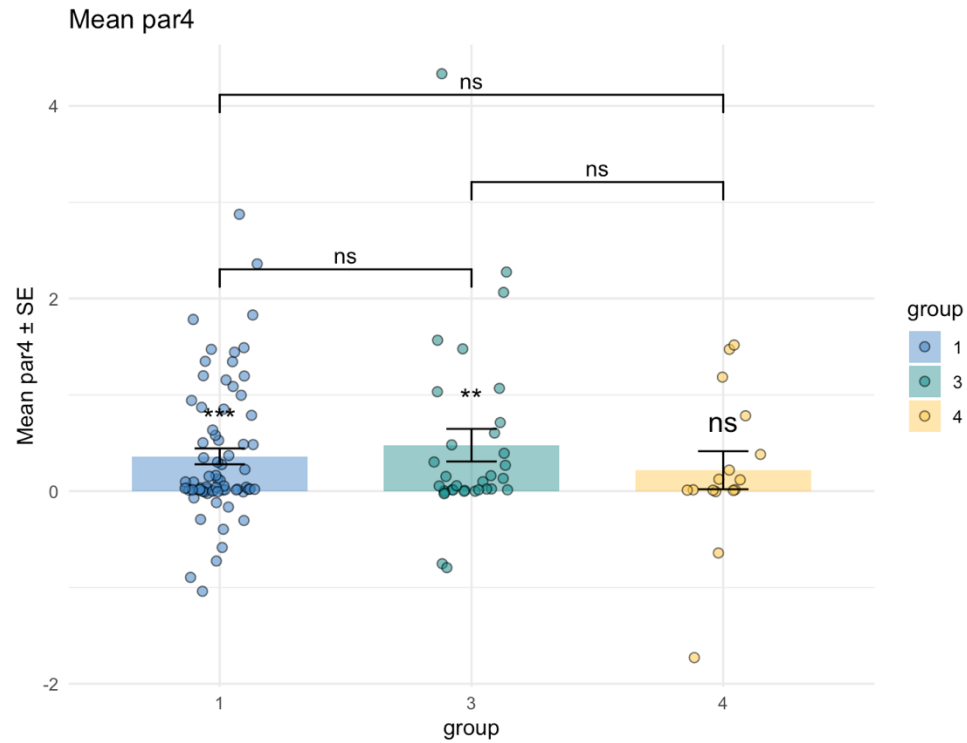


Influence model

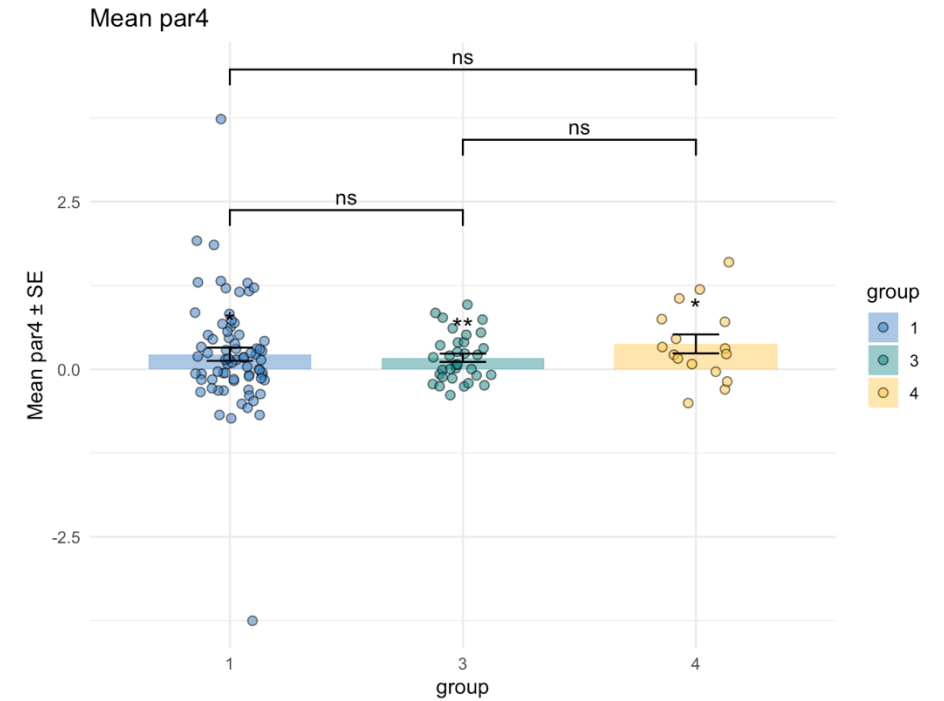


Simple influence model

# Fictitious play

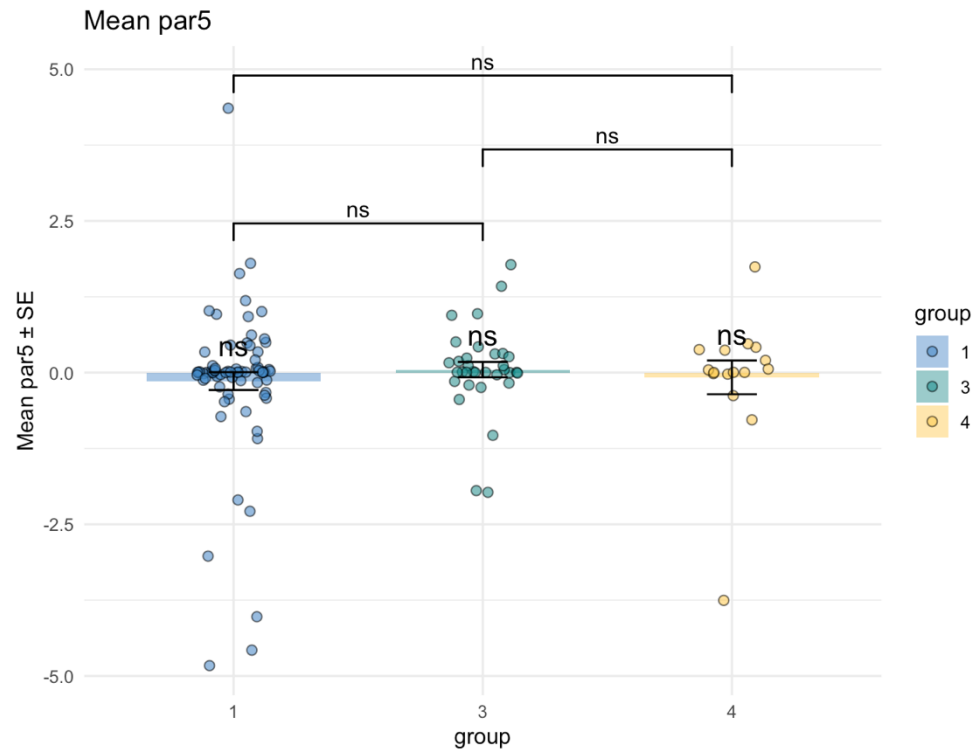


## Influence model

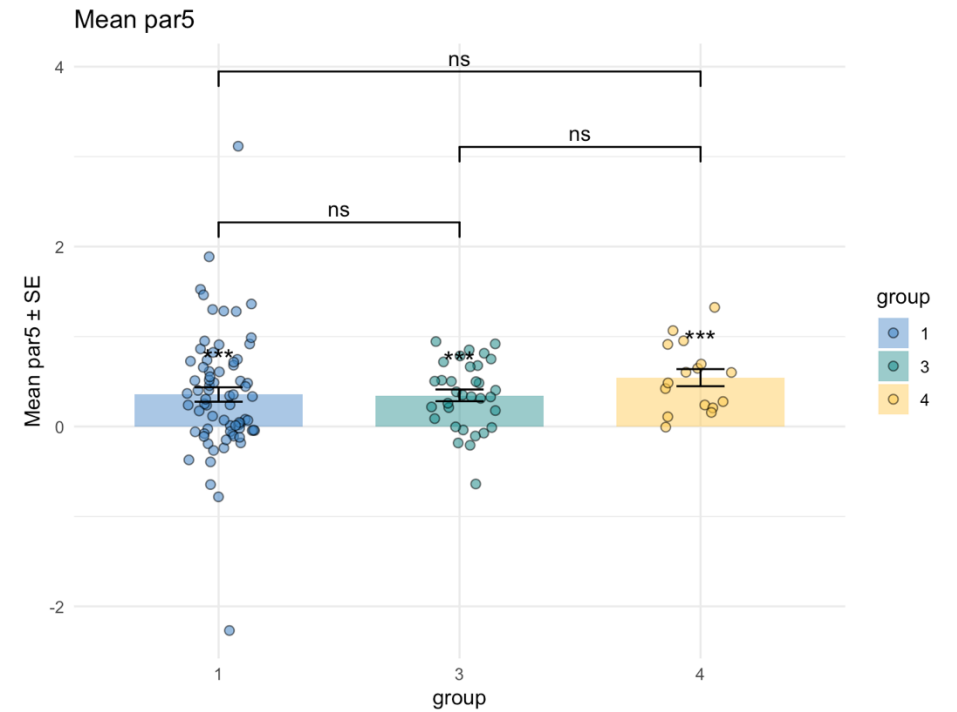


## Simple influence model

# Influence play



Influence model



Simple influence model