(Working Title) Appendix: Task Switching Replication Cognitive Control under varying Posture

Authors
Texas A&M University - Commerce

November 14, 2021

Abstract

Appendix of all figures, tables and materials generated by the project. Not all figures and tables may be used in final document, so can refer to this document for details of data analysis, visualizations, summary tables and other products of this project.

Appendix

Tables

Some text here.

Figures

Table 1: Summary of experiment participants results. Number of samples, and the average head and torso displacement during experiment are shown.

part	date	samples	head	torso
1	2021-11-10 10:21	47313	2.9716	3.7108
2	2021-11-10 11:15	56914	1.5779	3.9911
3	2021-11-10 12:20	45214	2.3325	3.5064
4	2021-11-10 13:18	43433	8.3482	10.8110
5	2021-11-10 14:22	43511	2.1401	2.8497
6	2021-11-10 15:12	35283	1.9824	3.5356
7	2021-11-11 15:07	46522	2.5832	2.6806
8	2021-11-11 16:36	75436	3.7156	4.4358
9	2021-11-12 10:09	51769	2.9460	3.6241
10	2021-11-12 11:10	46269	2.3017	2.6263
11	2021-11-12 12:35	41928	2.3433	2.1368
12	2021-11-12 13:50	43413	2.8110	3.4173

Table 2: Fit of logistic regression model with response (correct or incorrect) as the dependent variable, and average torso joint movement leading up to the response as the independent variable.

Dep. Variable:	correctValue	**No. Observations:**	4578
Model:	Logit	**Df Residuals:**	4576
Method:	MLE	**Df Model:**	1
Date:	Sun, 14 Nov 2021	**Pseudo R-squ.:**	2.557e-05
Time:	16:00:16	**Log-Likelihood:**	-1636.7
converged:	True	**LL-Null:**	-1636.7

	coef	**std err**	**z**	**P> |z|**	**[0.025**	**0.975]**
const	2.0538	0.073	28.086	0.000	1.910	2.197
jointTorsoDisplacement	-0.0002	0.001	-0.292	0.771	-0.001	0.001

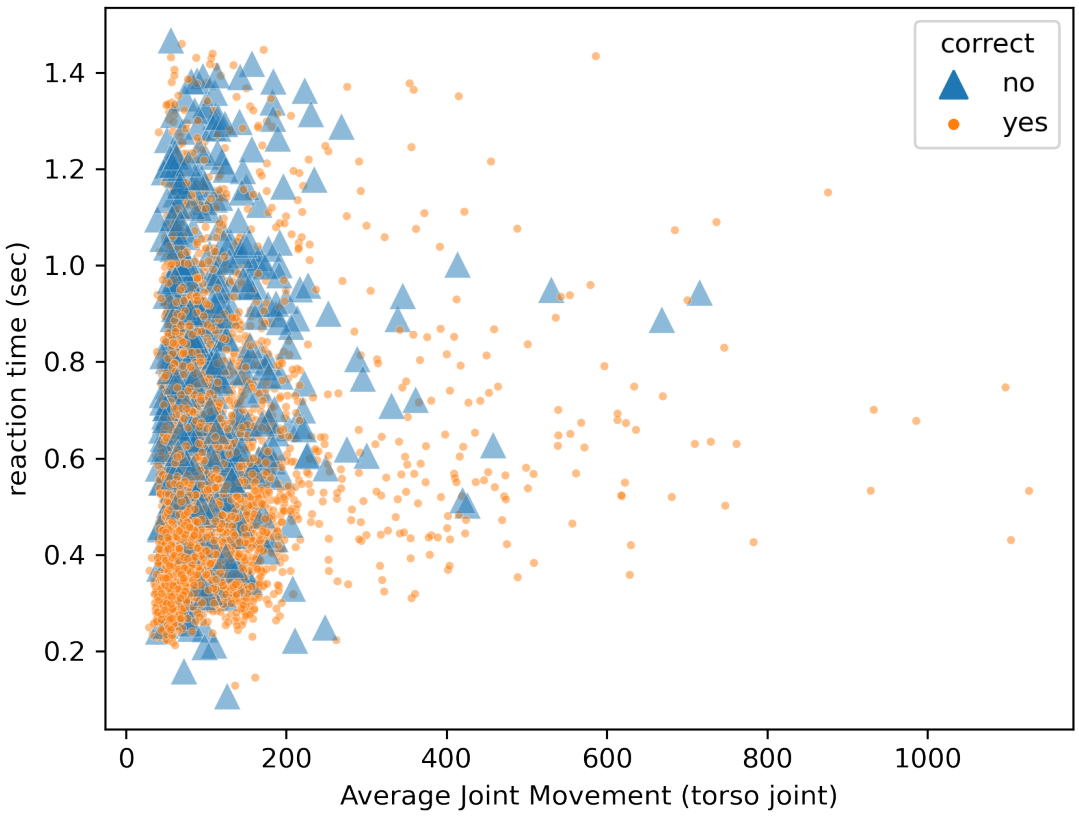

Figure 1: Reaction time of participants plotted as a function of average joint movement (displacement) captured from Kinect tracking sensor. Correct and incorrect responses are indicated by marker color and shape.

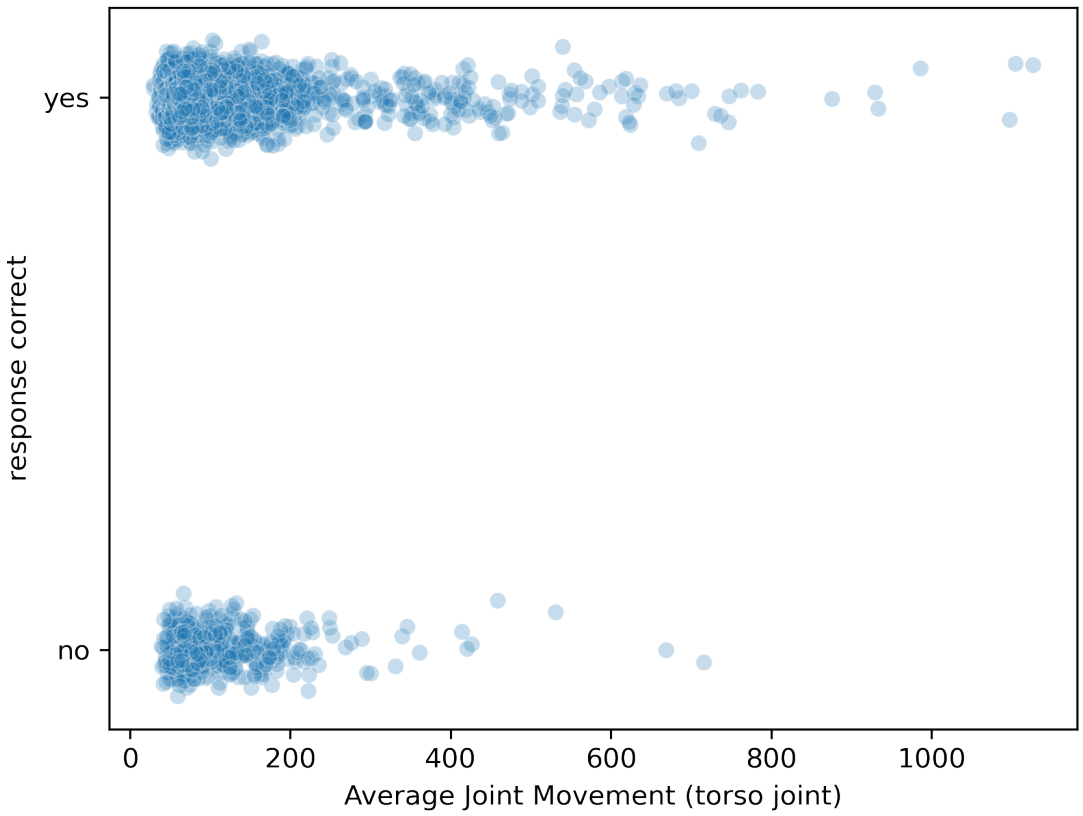

Figure 2: Response (correct or incorrect) as a function of average joint movement (displacement) captured from Kinect tracking sensor.