Translational Neuromodeling – Final Project

Participant ID: ___

Instructions.

This experiment will consist of **two sessions** of **150 trials** each. Each **trial** consists of three **steps**.

> **Step 1:** You receive a visual cue, which can be either a circle or a square (equal probabilities)
> **Step 2**: You are asked to predict whether the stimulus in **Step 3** will occur or not.
> **Step 3**: You either receive an auditory stimulus, or not.

The probabilities that govern the cue-stimulus contingency change over time. They follow the following scheme:

$$\mathrm{p}(\mathrm{tone}|\mathbf{square}) = 1 - \mathrm{p}(\mathrm{no\ tone}|\mathbf{square}) = \ 1 - \mathrm{p}(\mathrm{tone}|\mathbf{circle}) = \ \mathrm{p}(\mathrm{no\ tone}|\mathbf{circle})$$

This means that, at any given time, the predictive power of both cues is identical, that is

$$\mathrm{p}(\mathrm{tone}|\mathbf{square}) = \ \mathrm{p}(\mathrm{no\ tone}|\mathbf{circle})$$

Please answer the following questions on a scale from 0 to 10 as quickly and accurately as possible.

1) **How do you feel today?**
   [0 = very poor | 10 = great]
   ——————————————————————

2) **How well do you think you performed the task**?
   [0 = I believe I got almost all trials wrong | 10 = I believe I got almost all trials right]
   ——————————————————————

3) **In general, how easily do you become nervous or anxious in everyday life?**
   [0 = not easily at all | 10 = very easily]
   ——————————————————————