Pre-Analysis Plan

About Time II evaluates if school/district leaders' opinions about the use of math apps for PreK-K students can be influenced by research-based evidence.

The project consists on a randomized controlled trial, where school leaders who agree to answer a one-time survey will be randomized into a control or treatment group. Both groups will have a video embedded in the survey. The treatment group video will describe math apps and share the results of a research study about the effectiveness of math apps. The control group video will just give other neutral information describing math apps.

The model for the main analysis is:

$$Y_i = \beta_0 + \beta_1 T_i + \varepsilon_i$$

Where Y_i is the outcome variable for school/district leader i, and T_i is a binary variable indicating if school leader i is in the treatment group. The coefficient β_1 estimates the treatment effect.

The outcome variables are:

- Participant's answer to a question from the survey asking how likely the participant is to recommend math apps to PreK-K students for learning at home (values between 1 and 10).
- Participant's answer to a question from the survey asking how much the participant is willing to spend from school funds per student in order to provide math apps for students (values from $1 to $10)
- Interest and willingness of the participant to learn more about math apps. For this outcome the survey asks the participants if they are interested in signing up for a webinar hosted by researchers about the selection of high-quality math apps. The specific outcomes obtained from this question are:
  - Binary variable indicating if the participant reported being interested in attending this webinar.
  - Binary variable indicating if the participant attended the webinar or watched the recording of the webinar.
  - Continuous variable indicating how much time the participant spent watching the webinar or its recording.

The heterogeneous treatment effects will be estimated for two baseline characteristics: SES of the school/district leader's district, school/district leader's age, school/district leader's sex, and whether the school/district leader already recommends apps.