1) Have any data been collected for this study already?
No, no data have been collected for this study yet.

2) What’s the main question being asked or hypothesis being tested in this study?
This is a replication from Study 2 of Hagen, Krishna, & McFerran (2017). From the paper, “Study 2 tests whether requiring less (vs. more) physical involvement in helping oneself to food leads consumers to select larger portions (H1) and whether this effect is reduced for healthy food (H3). Furthermore, participants in all conditions choose from the same set of discrete portion sizes.”


3) Describe the key dependent variable(s) specifying how they will be measured.
Portion size selected on an 8-point scale, ranging from (1) 4 ounces to (7) 16 ounces in 2 ounce increments. (0) none at all is also an option.

4) How many and which conditions will participants be assigned to?
2 X 2 design. Food type (healthy vs unhealthy) X 2 (physical involvement: low vs high). Participants will be randomly assigned to conditions by Qualtrics.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.
We will conduct identical analyses to those in the paper. First, we will drop participants from the analyses if they indicate that they have a nut allergy or are lactose intolerant. The analyses from the paper, which we will conduct include a 2 (healthiness: healthy vs. unhealthy) × 2 (physical involvement: less vs. more) analysis of variance (ANOVA) on the dependent variable, portion size choice.

The paper predicts an attenuated interaction, which we will also probe and further analyze as in the paper. We expect planned contrasts to show that when people think about getting healthy almonds, they selected similar portions whether they have to serve themselves or the snack is already served for them. However, when people think about having unhealthy M&Ms, we expect them to select significantly smaller portions when they have to serve themselves than when the snack is already served for them.

6) Any secondary analyses?

7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.
The original used a sample size of 75. Because this is a replication, we will use a sample size 2.5 times larger to power the replication sufficiently enough to detect an effect. This yields a planned sample size of 187.5, which will be rounded to 188.

8) Anything else you would like to pre-register? (e.g., data exclusions, variables collected for exploratory purposes, unusual analyses planned?)