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**Student Research Report** 

# Buying Into Comparative Pricing: Exploring Purchase Intention and Satisfaction

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**UBC sustainability** 

**Buying Into Comparative Pricing:** Exploring Purchase Intention and Satisfaction

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### **Executive Summary**

In this study, we aimed to investigate how comparative pricing strategies influence purchase satisfaction and intent to purchase among UBC students. We conducted a between subjects design to explore how providing a reference price alongside the at-cost price of an item affects consumers' purchase intent and satisfaction of purchase. We anticipated that consumer purchase intent and satisfaction would increase when consumers were provided with a reference price compared to when only the at-cost price is presented. Using a Qualtrics survey, participants (N=135) were randomly assigned to one of two conditions. In the control condition, they were presented with six food items with only the at-cost price, and in the experimental condition, participants were presented with the same items with both the at-cost price and reference price. In both conditions, we examined our data using a satisfaction Likert scale and a dichotomous Yes or No questionnaire on purchase intention. Our results indicated a statistically significant increase in purchase satisfaction and intent when consumers were presented with both the at-cost price and reference price of food items. The results supported our notion that using comparative pricing strategies can improve consumer purchase satisfaction and purchase intent in an at-cost context.

### Introduction

From massive campus-wide protests to debates over funding, food security has risen in visibility as a topic important in students' lives. Food insecurity is the limited access to consistently safe and nutritious meals<sup>1</sup>. According to the UBC Wellness annual report, 37% of UBC students experience food insecurity<sup>13</sup>, which aligns with the estimated one-third of food insecure university students across Canada<sup>12</sup>. This growing issue is one of importance, as having access to healthy meals is a necessity for wellbeing<sup>1</sup>, and food insecurity is associated with poorer psychological and physical outcomes, including lower academic performance, increased levels of stress, and an increased risk of chronic disease<sup>1</sup>. Thus, in an effort to combat financially driven food insecurity, UBC's student-run Food Hub Market opened in 2021 to provide groceries and household items at-cost. At-cost, in this context, means the sale of products at no profit to the seller<sup>10</sup>.

A number of studies have looked into the types of behavioural interventions that can be used to improve consumer decision-making. A kind of behavioural intervention is nudging, which is an element of choice architecture that predictably modifies a consumer's behavior<sup>6</sup>. The effectiveness of nudges has been highlighted in many realms, including nudging consumers to make more eco-friendly choices<sup>2</sup>.

To facilitate a nudge, one must understand the two key factors that influence consumption choices: taste and cost<sup>4</sup>. We will focus on the latter, as cost has been found to be the most significant factor for younger consumers, women, and individuals with lower incomes<sup>4</sup>, all of whom encapsulate a sizable portion of UBC's population<sup>14</sup>. To explore potential actions the Food Hub Market can take, we have examined past research on a cost-related marketing strategy that has been found crucial in influencing food and beverage consumption: comparative price advertising, specifically reference pricing.

Comparative price advertising is when a company markets the prices of their products as being lower comparatively to other prices, whether that be the price at other companies, historical or previous prices, or what have you, to indicate savings and the monetary value of purchasing their items at their cost<sup>11</sup>. The use of comparative price advertising can be beneficial for both consumers and sellers<sup>3</sup>. This advertising provides consumers with valuable information regarding potential deals and money they can save<sup>3</sup>. Comparative price marketing has been documented in the literature to impact purchasing habits. Grewal et al. (1998) found that when comparative price advertising is implemented, consumers place more value on their purchases, and this is the mechanism that increases purchase likelihood. Research has also found this link between promoting a comparative price and the likelihood of purchase with discounted items<sup>11</sup>. One way comparative price advertising can be implemented is by placing a reference price beside an offering price to render the offering price more appealing<sup>3</sup>. It is known that providing a reference price that is higher than the offering price increases a consumer's willingness to pay, but only when the reference price is plausible<sup>9</sup>. The profitable influence of providing reference prices on consumer spending has been recognised in a realm of different contexts, including pay-what-you-want models<sup>8</sup>. Research has even looked at how to format reference prices for the biggest impact<sup>7</sup>.

So, while research has extensively investigated reference pricing in a variety of contexts, there has yet to be an exploration into the context of products being sold at-cost. Furthermore, the focus of research on comparative price advertising in general focuses heavily on its impact on intent and likelihood of purchase, but there lacks an investigation into its effect on consumer satisfaction. We still have yet to understand how marketing strategies that utilise the comparison

between conventional and at-cost food prices impact the UBC demographic. Given that cost is a critical factor in food selection and UBC students are disproportionately food insecure, it is imperative that we implement a marketing strategy so as to inform students of the resources available while simultaneously increasing Food Hub sales.

### **Research Question and Hypothesis**

With this study, we aim to investigate the following question: how does providing a consumer with the conventional prices of food items alongside its at-cost price impact purchase satisfaction and intent to purchase? We hypothesise that providing consumers with the conventional price of food alongside its at-cost price will increase their satisfaction and intent to purchase food items compared to when only an at-cost price is provided.

Our hypothesis is based on the past literature discussed previously. In other contexts, providing the reference price did increase the consumer's intention to purchase, so we predict that this finding will apply to this at-cost frame. As for satisfaction, as stated, research found that comparative price advertising increased the perceived value of the item, and we predict that this may translate to satisfaction.

### Methods

#### **Participants:**

In a power analysis (assuming a minimum effect size = 0.2, alpha = 0.05, power = 0.8), our target sample size was a minimum of 620 participants. Despite our best collective efforts, however, our survey garnered a total of 135 participants. Out of these participants, seven had to be excluded due to incomplete survey responses or failure of attention-check questions. The remaining majority of the remaining participants (N=135) were in their 3rd or 4th year of study (61.4%) with a mean age of 21.13 years (SD 3.93). Critically, 22% of the sample reported experiencing food insecurity in the past 12 months (see Appendix Table 10 for demographics). *Conditions:* 

This study was a between-subjects design in which there were two conditions. Participants were randomly assigned to either the control or experimental condition. Our Qualtrics survey presented participants in the control condition with a picture of a food item with its price at the Food Hub as representative of the current real-life model. Participants in the experimental condition were given the same items and the Food Hub price, with a note informing them of the Save-on-Foods price. This note of Save-On-Foods price was in the form of an FYI statement in parentheses next to the Food Hub price and represents how we operationalized our independent variable: comparative pricing. This was continued for a total of six items. When selecting our six products, we based our selection on those currently being sold at both locations and ensured products had few associated allergies or dietary restrictions. We also selected items with varying prices and price discrepancies between Food Hub and Save-On-Foods. We then measured how comparative pricing affected both intent to purchase and purchase satisfaction (the dependent variables).

#### Measures:

Each of the six food items in both conditions was accompanied by two items measuring intent to purchase and purchase satisfaction, respectively. Intent to buy was measured with a dichotomous response choice of "yes" or "no" to whether or not participants would purchase the item at the Food Hub price. Purchase satisfaction was measured by asking participants how satisfied they would be if they purchased the item at Food Hub. Responses were measured on a seven-point Likert scale ranging from "extremely dissatisfied" (coded as -3) to "extremely satisfied" (coded as 3). The survey also contained two questions to check for attention: one in the

control and experimental conditions, and another in the demographics section. Participants who failed one or both attention checks were omitted from analysis.

### **Procedure:**

Our survey began with a consent form (Appendix B), after which the participants were faced with the hypothetical scenario of shopping at Food Hub Market and presented information that Food Hub is an at-cost market on the UBC campus. They would then proceed through the survey items in their assigned condition, viewing each of the six items one at a time. These items appeared to participants in a random order to eliminate order effects. Finally, some brief demographic questions were presented, including one asking if participants had experienced food insecurity in the last 12 months. After demographics, participants were thanked for their participation and debriefed (Appendix B). Participants were recruited using social media, the personal and professional networks of the researchers, and through in-class announcements in various UBC psychology classes from March 7th-31st, 2023. The main challenge was recruiting enough participants to satisfy the amount given by our power analysis (620), which proved to be insurmountable given our resources.

#### Results

For our hypothesis on consumer purchase satisfaction, we used the mean of all six items' satisfaction scores for each participant to do an independent sample t-test as they are measured on a seven-point Likert scale. Using a Shapiro Wilk normality test on SPSS, where the initial hypothesis is that the sample is normal, we found a *p*-value of .439, which suggests that our data is normally distributed (Appendix Table 1). We found that on average, participants in the control condition scored on average right between "neither satisfied nor dissatisfied" and "somewhat satisfied" (M = .690, Std = .778) while participants in the experimental condition scored on average right between "somewhat satisfied" (M = 1.384, Std = .814) (Appendix Table 2). As a result, consumers who were shown the conventional reference price reported greater purchase satisfaction than the consumers who were only shown the at-cost price (t(125) = .p < .001, 95% CI [-.974, -.415], d = -.873) (Appendix Table 3-4). In addition, we found that comparative pricing had an effect size of .873 on consumers' purchase satisfaction. With this effect size in mind and a power of .873, we would have only needed 34 participants to achieve power (Appendix Figure 1).

As for our hypothesis on consumer's intent to purchase, we used the sum of all six items intent to purchase scores to give us an interval scale. Using a Shapiro-Wilk test of normality, we found that our sample was not normally distributed (p < .001) (Appendix Table 5). Thus, instead of using an independent sample t-test, we should use the Mann-Whitney U test to compare two independent non-normal distributions. This test showed that the mean rank order in the control condition is 56.76 while that of the experimental condition is 71.59 (Appendix Table 6). This suggests that participants in the experimental condition intended to purchase more items on average than participants in the control condition. This relationship was statistically significant, U(127) = 15444.500,  $p_{1-tail} = .01$  (Appendix Table 7). From the mean and standard deviations of consumer's intent to purchase in each condition (Appendix Table 11), we can calculate an effect size of .399 (Appendix Figure 2). A Mann-Whitney U power analysis revealed we only needed 166 participants to achieve power (Appendix Figure 3).

Although we had a wide range of items participants were exposed to, we also wanted to explore if participants were more sensitive to price comparisons of certain types of items. For participants' intent to purchase, we found that apples had the largest differences in scores, where participants scored on average .52 in the control condition, and .87 in the experimental condition

(Table 8). This was then closely followed by pretzels and rice. Interestingly, there didn't seem to be much difference between flour and olive oil. In addition, we found that purchase satisfaction decreased for cheerios.

Finally, we wanted to explore how food insecurity affected consumers' decision-making. The only trend we were able to see was that participants who had experienced food insecurity within the last 12 months had overall lower purchase satisfaction scores (control : .65, experimental: 1.19) than participants who did not experience food insecurity (control: .70, experimental: 1.44) (Table 9). This suggests that food insecurity may affect purchase satisfaction even if it is a correlational relationship. In addition, participants who have experienced food insecurity also had comparable intent to purchase scores in the control condition (M = 4.21, Std = 1.19) and the experimental condition (M = 4.14, Std = 1.35) (Table 9).

### Discussion

Our results indicate that providing the conventional price of food items alongside the at-cost price nudges consumers' intentions to purchase that item as well as helped increase purchase satisfaction compared to when only the at-cost price is presented. Both of these effects were statistically significant. Our results are consistent with our hypothesis as well as past literature. Since past research and our results are compatible, we believe the observed trend that reference pricing increases the perceived value of items, which in turn impacts consumer decision-making, is at play in our results. Moreover, as our hypothesis is supported, this strengthens the idea that comparative pricing still has an impact in an at-cost context and with the UBC demographic, and this influence is consistent across contexts in the form of increasing purchase intention.

Our findings that the presence of a reference price had a higher effect on items like apples or pretzels between conditions could suggest that participants are more sensitive to fresh items like produce and easily consumable items like pretzels and rice instead of cooking items like flour and olive oil. As for purchase satisfaction, similar trends have emerged (Table 9). Easy-to-consume items like apples and rice had the greatest increase in purchase satisfaction, followed by pretzels, olive oil, and flour. Interestingly, we found that satisfaction with purchasing cheerios decreased in the experimental condition. To look further into this, future replications should include a more extensive list of easily consumable food items as well as cooking supplies. Our finding that people who currently experience food insecurity had lower purchase satisfaction could suggest that perhaps it is food anxiety that hinders consumers' purchase satisfaction. Overall, this finding warrants some further investigation to find out why this was the case, and what can be done to increase the satisfaction of those people. Our finding that intent to purchase was the same in both conditions could suggest that food insecurity is acting as a moderator in the relationship between food pricing and consumers' intent to purchase. Although the conclusions here are limited, they offer some potential avenues for further research. **Relevance to wellbeing:** 

Resources such as the Food Hub Market could play an important role in minimising food insecurity at UBC, which afflicts 37% of its students<sup>13</sup>. Although the university has undertaken several initiatives (such as opening the Food Hub market), their effectiveness in minimising food insecurity could be bolstered by increasing students' awareness and utilisation of them. We provided support for the notion that comparative pricing can increase intent to purchase, which may be used in marketing campaigns to draw in new customers to Food Hub, while increased purchase satisfaction will increase the likelihood of repeated use of the market. With increased frequency of use, it could reach more students who suffer from food insecurity and help Food

Hub reduce the severity of food insecurity for some. This could have positive impacts on the physical and psychological health of those students, and thereby on their academic performance as well<sup>1</sup>.

### Limitations

Our largest limitation was that we did not have enough participants for our second hypothesis. This could suggest that we found a relationship that doesn't necessarily exist, and therefore our results are less robust. In addition, since this was an online survey, participants only imagined themselves walking through Food Hub instead of actually walking through it. This could be a threat to internal validity and limit the generalisations we can make. Future research could explore these relationships in a more realistic setting. In addition, all of the data we collected was self-report data, which could reflect some participant bias. Indeed, food insecurity could be seen as undesirable, which could skew participants' self-reports.

### **Recommendations For Client**

Our findings indicate that using comparative pricing strategies increases both purchase intent and satisfaction, and therefore, our recommendations for UBC and the UBC Food Hub Market are primarily focused on the types of marketing strategies that could be implemented. UBC Food Hub Market could put into effect comparative pricing strategies on a smaller and larger scale, depending on time constraints and feasibility. On a smaller scale, the Food Hub Market could implement comparative pricing strategies on individual items in the form of reference pricing. As an example, the conventional price of an item could be placed beside the at-cost price of the item. The conventional price could be placed in the form of a sticker or written in. On a larger scale, which could prove to be more time-efficient, Food Hub Market could place signage at the entrance of the market indicating the overall average cost difference of items compared to other stores. This could look like: "Here at Food Hub Market, your groceries will cost you around less dollars than at any other grocery store." The advertising of the cost differential could be stated in a percentage or as an absolute number, depending on the client's preference and ease. We want to allow for creative freedom of our client, so please note that these are just examples of how comparative pricing strategies and reference pricing could be implemented.

Due to our study being conducted through a Qualtrics survey, additional research could focus on how sales are affected before and after comparative pricing is implemented at the Food Hub Market. Additionally, future research could examine which method of presenting both conventional and at-cost prices is most effective. For example, is the use of stickers labelling the reference price more effective in relaying information than when the reference price is slashed off beside the at-cost price? This study could also be conducted using different items available at Food Hub to see if the pattern we observed that reference pricing is the most effective in influencing the purchase of fresh food items still holds. Furthermore, future research could investigate the most cost-effective and time-efficient manner to implement comparative pricing advertising for the Food Hub Market. This study provides boundless possibilities for further investigation.

We hope that our research and overall findings have provided UBC Food Hub with possible avenues to increase sales and customer experience. We hope the contributions from our project will nudge students to utilise this resource more and will aid Food Hub in their mission to provide affordable food and combat food insecurity on campus.

### References

- [1] Bruening, M., Argo, K., Payne-Sturges, D., & Laska, M. N. (2017). The struggle is real: A systematic review of food insecurity on Postsecondary Education campuses. *Journal of the Academy of Nutrition and Dietetics*, *117*(11), 1767–1791. https://doi.org/10.1016/j.jand.2017.05.022
- [2] Camilleri, A.R., Larrick, R.P., Hossain, S., & Patino-Echeverri, D. (2019) Consumers underestimate the emissions associated with food but are aided by labels. *Nature Climate Change*, 9, 53-58. https://www.nature.com/articles/s41558-018-0354-z
- [3] Compeau, L. D., & Grewal, D. (1998). Comparative price advertising: an integrative review. Journal of Public Policy & Marketing, 17(2), 257-273. https://www.jstor.org/stable/30000775
- [4] Glanz, K et al. (1998) "Why Americans eat what they do," Journal of the American Dietetic Association, 98(10), pp. 1118–1126. https://doi.org/10.1016/s0002-8223(98)00260-0.

 [5] Grewal, D., Monroe, K. B., & Krishnan, R. (1998). The effects of price-comparison advertising on buyers' perceptions of acquisition value, transaction value, and behavioral intentions. *Journal of Marketing*, 62(2), 46-59. https://www.proquest.com/scholarly-journals/effects-price-comparison-advertising

-on-buyers/docview/227801852/se-2

[6] Hummel, D., & Maedche, A. (2019). How effective is nudging? A quantitative review on the effect sizes and limits of empirical nudging studies. *Journal of Behavioral and Experimental Economics*, 80, 47-58.

https://doi.org/10.1016/j.socec.2019.03.005

- [7] Jang, J. M., & Park, E. Y. (2019). Location does matter: The effect of display locations of regular price and sale price on consumers' responses in comparative price advertising. *International Journal of Advertising*, *39*(7), 1059–1085. https://doi.org/10.1080/02650487.2019.1687233
- [8] Johnson, J. W., & Cui, A. P. (2013). To influence or not to influence: External reference price strategies in pay-what-you-want pricing. *Journal of Business Research*, 66(2), 275–281. https://doi.org/10.1016/j.jbusres.2012.09.015
- [9] Lin, C.H., & Chen, M. (2017). Follow your heart: How is willingness to pay formed under multiple anchors? *Frontiers in Psychology*, 8. https://doi.org/10.3389/fpsyg.2017.02269
- [10]Merriam-Webster. (n.d.). At cost price. In Merriam-Webster.com dictionary. https://www.merriam-webster.com/dictionary/at%20cost%20price
- [11] McKechnie, S., Devlin, J., Ennew, C., & Smith, A. (2012). Effects of discount framing in comparative price advertising. *European Journal of Marketing*, 46(11), 1501-1522. https://doi.org/10.1108/03090561211259952
- [12] Silverthorn, D. (2016). Hungry for knowledge: Assessing the prevalence of student food insecurity on five Canadian campuses. Toronto: Meal Exchange. http://mealexchange.com
- [13] UBC Wellbeing. (n.d.) UBC Wellness Annual Report 2020-21. https://wellbeing.ubc.ca/annualreport20-21
- [14] University of British Columbia. (2021). University of British Columbia Annual Enrolment Report 2020/21. https://senate.ubc.ca/files/UBC-Enrolment-Report-2020-21\_0.pdf

# Appendix A

Table A1

Test of Normality for Purchase Satisfaction

### **Tests of Normality**

|    |         | Kolm      | ogorov–Smi | rnov <sup>a</sup> | 9         | Shapiro-Wilk | 2    |
|----|---------|-----------|------------|-------------------|-----------|--------------|------|
|    |         | Statistic | df         | Sig.              | Statistic | df           | Sig. |
| Me | ean_sat | .065      | 127        | .200*             | .989      | 127          | .439 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Table A2

Descriptive Statistics for Purchase Satisfaction

### T-Test

### **Group Statistics**

|          | 1= control, 2 =<br>experimental | Ν  | Mean   | Std. Deviation | Std. Error<br>Mean |
|----------|---------------------------------|----|--------|----------------|--------------------|
| Mean_sat | control                         | 65 | .6897  | .77777         | .09647             |
|          | experimental                    | 62 | 1.3844 | .81403         | .10338             |

Table A3

# Independent Sample t-test for Purchase Satisfaction

|          |                                |                        | Inc                      | dependent | t Samples | Test    |                      |                    |            |                          |                         |
|----------|--------------------------------|------------------------|--------------------------|-----------|-----------|---------|----------------------|--------------------|------------|--------------------------|-------------------------|
|          |                                | Levene's Test<br>Varia | for Equality of<br>inces |           |           |         | t-test f             | or Equality of Me  | ans        |                          |                         |
|          |                                | F                      | Sig                      | t         | df        | Signifi | cance<br>Two-Sided p | Mean<br>Difference | Std. Error | 95% Confidence<br>Differ | Interval of the<br>ence |
| Mean_sat | Equal variances assumed        | .043                   | .836                     | -4.918    | 125       | <.001   | <.001                | 69467              | .14125     | 97421                    | 41512                   |
|          | Equal variances not<br>assumed |                        |                          | -4.913    | 123.926   | <.001   | <.001                | 69467              | .14140     | 97454                    | 41479                   |

### Table A4

Purchase Satisfaction Effect Sizes

|          |                    |                           |                | 95% Confide | nce Interval |
|----------|--------------------|---------------------------|----------------|-------------|--------------|
|          |                    | Standardizer <sup>a</sup> | Point Estimate | Lower       | Upper        |
| Mean_sat | Cohen's d          | .79567                    | 873            | -1.236      | 507          |
|          | Hedges' correction | .80049                    | 868            | -1.228      | 504          |
|          | Glass's delta      | .81403                    | 853            | -1.230      | 471          |

### Independent Samples Effect Sizes

a. The denominator used in estimating the effect sizes. Cohen's d uses the pooled standard deviation. Hedges' correction uses the pooled standard deviation, plus a correction factor. Glass's delta uses the sample standard deviation of the control group.

### Table A5

Test of Normality for Intent to Purchase

# **Tests of Normality**

|              | Kolm      | ogorov–Smi | r <b>nov</b> a | 5         | Shapiro-Wilk |       |
|--------------|-----------|------------|----------------|-----------|--------------|-------|
|              | Statistic | df         | Sig.           | Statistic | df           | Sig.  |
| sum_purchase | .156      | 127        | <.001          | .915      | 127          | <.001 |

a. Lilliefors Significance Correction

Table A6

Descriptive Statistics for Intent to Purchase

### Ranks

|              | 1= control, 2 =<br>experimental | Ν   | Mean Rank | Sum of Ranks |
|--------------|---------------------------------|-----|-----------|--------------|
| sum_purchase | control                         | 65  | 56.76     | 3689.50      |
|              | experimental                    | 62  | 71.59     | 4438.50      |
|              | Total                           | 127 |           |              |

Table A7

Mann Whitney U test Statistics for Intent to Purchase

# **Test Statistics**<sup>a</sup>

|                        | sum_purchase |
|------------------------|--------------|
| Mann-Whitney U         | 1544.500     |
| Wilcoxon W             | 3689.500     |
| Z                      | -2.330       |
| Asymp. Sig. (2-tailed) | .020         |
|                        | 1            |

a. Grouping Variable: 1= control, 2 = experimental

Table A8

Descriptive Statistics per item.

|                  |      | 1 =  control, 2 =     | experimer | ntal                  |
|------------------|------|-----------------------|-----------|-----------------------|
|                  | с    | ontrol                | exp       | erimental             |
|                  | Mean | Standard<br>Deviation | Mean      | Standard<br>Deviation |
| Flour_Purchase   | .65  | .48                   | .76       | .43                   |
| Cheerio_Purchase | .88  | .33                   | .63       | .49                   |
| Apple_Purchase   | .52  | .50                   | .87       | .34                   |
| Olive_Purchase   | .75  | .43                   | .76       | .43                   |
| Rice_Purchase    | .71  | .46                   | .84       | .37                   |
| Pretzel_Purchase | .52  | .50                   | .68       | .47                   |

### Table A9

Food Insecurity Descriptive Statistics

|                 |                          |           |              | Me   | ean_sat               | sum_ | purchase              |
|-----------------|--------------------------|-----------|--------------|------|-----------------------|------|-----------------------|
|                 |                          |           |              | Mean | Standard<br>Deviation | Mean | Standard<br>Deviation |
| Food Insecurity | Yes                      | Condition | control      | .65  | .67                   | 4.21 | 1.19                  |
|                 |                          |           | experimental | 1.19 | .93                   | 4.14 | 1.35                  |
|                 | No                       | Condition | control      | .70  | .79                   | 4.00 | 1.20                  |
|                 |                          |           | experimental | 1.44 | .76                   | 4.60 | 1.29                  |
|                 | Not sure / prefer not to | Condition | control      | .67  | 1.01                  | 3.86 | 1.57                  |
|                 | say                      |           | experimental | 1.43 | 1.03                  | 5.00 | 1.00                  |

# Table A10

# Participant Demographics

|   |                                       | Mean  | Standard<br>Deviation | Column N % |
|---|---------------------------------------|-------|-----------------------|------------|
| What is your age in years?  | - Place slider on your age.           | 21.13 | 3.93                  |            |
| Do you attend UBC?  | Yes                                   |       |                       | 90.6%      |
|   | No                                    |       |                       | 9.4%       |
| What level of schooling   | First Year Undergraduate              |       |                       | 7.9%       |
| are you currently in? –<br>Selected Choice  | Second Year<br>Undergraduate          |       |                       | 19.7%      |
|   | Third Year<br>Undergraduate           |       |                       | 30.7%      |
|   | Fourth Year<br>Undergraduate          |       |                       | 30.7%      |
|   | Fifth+                                |       |                       | 7.1%       |
|   | Graduate                              |       |                       | 2.4%       |
|   | None of the above<br>(please specify) |       |                       | 1.6%       |
| Food insecurity is the<br>inability or the uncertainty<br>of acquiring or consuming | Yes                                   |       |                       | 22.0%      |
| nutritionally adequate<br>and safe foods in socially<br>acceptable ways.            | No                                    |       |                       | 68.5%      |
| have you experienced food insecurity?   | Not sure / prefer not to say          |       |                       | 9.4%       |
| 1= control, 2 =   | control                               |       |                       | 51.2%      |
| experimental  | experimental                          |       |                       | 48.8%      |



### Figure A1: Purchase Satisfaction Power Analysis



Figure A2: Intent to Purchase Effect Size



Figure A3: Intent to Purchase Power Analysis

# **Appendix B:**

# Qualtrics Survey Screenshots in Order of Consent Form - Control - Experimental

# **Condition - Demographics - Debrief**

| Consent   |  |  |
|---|--|--|
|   |  |  |
|   | INVERSITY OF BUTTRH COLUMBA  |  |
|   | UBC UNIVERSITION BRITISH COLUMBIA  |  |
|   | University of 1<br>Vianceary<br>2010   |  |
|   | 1  |  |
|   | Consent Form   |  |
|   | Class Research Projects in PSYC 421 - Environmental Psychology   |  |
|   | Principal Investigator: Dr. Jayung Zhao<br>Course Instructor<br>Denorment of Prochalogy  |  |
|   | Institute for Resources, Environment and Sustainability  |  |
|   | Linin, Joy ngaypy cone va  |  |
|   | Introduction and Purpose<br>Students in the PSYC 421 – Environment Psychology class are required to complete a re  |  |
|   | on the UBC campus as part of their course credit. In this class, students are required to w<br>research proposal, conduct a research project, collect and analyze data, present their find   |  |
|   | and suema a mail report. Infit that reports will be published on the SEEDS online uter<br>sustain.ube.ca/teaching-applied-learning/seeds-sustainability-program). Their projects in<br>converse and available on a variety of sustainability teaching such a work cortise on to  |  |
|   | health and wellbeing, food consumption and diet, transportation, biodiversity perception,<br>habits. The goal of the project is to train students to learn research trebnianes, haw to we  |  |
|   | and work with UBC clients selected by the UBC SEEDS (Social Ecological Economic E<br>Studies) program.   |  |
|   | Study Procedures   |  |
|   | If you agree to participate, the study will take about 10 minutes of your time. You will ar<br>questions in the study. The data will be strictly anonymous. Your participation is entirely<br>the study of the study.  |  |
|   | you can wroatniw at any point winnou any penalty. Your data in the study will be records<br>answer you give) for data analysis purposes. If you are not sure about any instructions, p<br>havitate or al. Your data will and be used for interdent particular in the about any instructions.   |  |
|   | assesses to solve the state will only be used for statent projects in the class. There are no<br>associated with participating in this experiment.   |  |
|   | Confidentiality<br>Your identity will be kept strictly confidential. All documents will be identified only by c  |  |
|   | and kept in a locked filing cabinet. You will not be identified by name in any reports of t<br>study. Data that will be kept on a computer hard disk will also be identified only by code  |  |
|   | will be encrypted and password protected so that only the principal investigator and cour<br>Dr. Jaying Zhao and the teaching assistants will have access to it. Following the comple  |  |
|   | soury, use usta with the transferred to an encrypted and paissword protected hard drive and<br>locked filing cabinet. Please note that the results of this study will be used to write a repr-<br>rublished on the SFEDS library.  |  |
|   | parameters on an and 200 IRRAY.  |  |
|   | Version 4: June 20, 2022 (Ethics ID: H17-02929)  |  |
|   |  |  |
|   | UNIVERSITY OF BRITISH COLUMBIA   |  |
|   | Departme<br>University of D  |  |
|   | Pite I   |  |
|   | There is no remuneration for your participation.   |  |
|   | Contact for information about the study<br>This study is bring conducted by Dr. Jiaving Zhao, the principal investigator. Please core  |  |
|   | have any questions about this study. Dr. Zhao may be reached at (604) 827-2203 or<br>jiayingz@psych.ubc.ca.  |  |
|   | Contact for concerns about the rights of research subjects   |  |
|   | iii you have any concerns or comptaints about your rights as a research participant and/or<br>experiences while participating in this study, contact the Research Participant Complaint<br>URC Office of Research Ethics in 644,872-8698 or if loan distance e-mail BSU (2004 ab   |  |
|   | toll free 1-877-822-8598.  |  |
|   | Consent: Your participation in this study is entirely voluntary and you may refuse to par<br>withdraw from the study at any time. You also may neutrone your decision to participate   |  |
|   | You have the right to choose to not answer some or any of the questions. By clicking the<br>button, you are indicating your consent to mattriangle bence.  |  |
|   | researchers encourage you to keep this information sheet for your records. Please feel frc<br>investigators any additional questions that you have about the study.  |  |
|   |  |  |
|   |  |  |
|   | Ethics ID: H17-02929   |  |
|   | Ethics ID: H17-02929   |  |
|   | Ethics ID: 117-62929   |  |
|   | Ethics ID: H17-43829   |  |
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| PDF Do<br>Consen  | Faher ID. 1117-43529<br>Vienies 4. Janz 26, 2022 @faher ID: 1117-85559<br>wrfload:   |  |
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| PDF Do<br>Consen<br>067<br>• • • Sap<br>bei at tar                        | Ethics ID. 1117-8529  Version 4. Juny 20, 2022 (103cs ID: 1117-82729) wrfoad:  100m 2023  10 m 2023 10 m 202 |  |
| PDF Do<br>Consen<br>067<br>File Step<br>Folia of Star<br>Do you<br>Do you | Bakes ID: 1117-8559           Numme 4: June 30, 2022 (filluo ID: 1117-8559)           writicast:           If form 5023           Margin 4: Son Shamad           Margin 4: Son Shamad           Conserts to participate in this study?   |  |
| PDF Do<br>Consen<br>• © Step<br>Boi et tar<br>Do you<br>○ No              | Winim 6, Jun 26, 202 @fabra ID: 101/45/55)           wrlioad:           tform 2023   |  |

Figure B1: Participants Consent Form

|  | Import from library     + Add new quest |
|--|---|
| - Apple  |   |
| AppleCont_1<br>For the next section of the survey, imagine you are shopping at Food Hub Market. Food<br>Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read<br>each question carefully and answer as honestly as you can.  |   |
| AppleCont_2  |   |
|  |   |
|  |   |
| + Add pape break   |   |
| + Add page break   |   |
| + Add page break   | * ×*                                    |
| + Add page break AppleCom_Purchase Would you purchase this item at Food Hub for \$0.49?  | * ×*                                    |
| + Add page break AppleCom, Purchase Would you purchase this item at Food Hub for \$0.49? O Yes O No  | * ו                                     |
| Add page break AppleCont_Purchase Would you purchase this item at Food Hub for \$0.49?      Ves     No   | * ×*<br>* ×*                            |
| Add page break  AppleCont_Purchase  Would you purchase this item at Food Hub for \$0.49?      Viss      No  AppleCont_Sat  If you had purchased this item how satisfied would you be with your purchase?   | * ×*<br>* ×* (X)                        |
| Add page break AppleCont_Purchase Would you purchase this item at Food Hub for \$0.49?      ves     No AppleCont_Sat If you had purchased this item how satisfied would you be with your purchase?   | * ** (x)                                |
| Add page break AppleCont_Purchase Would you purchase this item at Food Hub for \$0.49?      ves     No AppleCont_Sat If you had purchased this item how satisfied would you be with your purchase?     Extensity disastified     Rest-Sate   | * ×*<br>* ×* (X)                        |
| Add page break  AppleCont_Purchase  Would you purchase this item at Food Hub for \$0.49?      ves     No  AppleCont_Sat  If you had purchased this item how satisfied would you be with your purchase?      Entremyt disatified     Disatisfied     Disatisfied  | * ×*<br>* ×* (x)                        |
| Add page break AppleCont_Purchase Would you purchase this item at Food Hub for \$0.49?      Vis     No  AppleCont_Sat If you had purchased this item how satisfied would you be with your purchase?      Externely disastified     Disastisfied     Somewhat disastified   | * ×+<br>* ×+ (x)                        |
| Add page break  AppleCont_Purchase  Would you purchase this item at Food Hub for \$0.49?      Vies      No  AppleCont_Sat  If you had purchased this item how satisfied would you be with your purchase?      Distartised     Distartised     Somewhat distartised     Somewhat distartised     whither satisfied or distartisfied   | * ×+<br>* ×+ (×)                        |
| Add page break  AppleCont_Purchase  Would you purchase this item at Food Hub for \$0.49?      ves     No  AppleCont_Sat  If you had purchased this item how satisfied would you be with your purchase?      breaking     Somewhat disatisfied     bisatisfied     Somewhat disatisfied     Somewhat disatisfied     Somewhat satisfied     Somewhat satisfied     Somewhat satisfied   | * ×*<br>* ×* (X)                        |
| Add page break AppleCont_Purchase Would you purchase this item at Food Hub for \$0.49?      ves     No AppleCont_Sat If you had purchased this item how satisfied would you be with your purchase?      Extensity disadsfied     Disatsfied     Somewhat disadsfied     Somewhat satisfied     Somewhat satisfied     Somewhat satisfied     Satisfied     Satisfied     Satisfied   | * **<br>* ** (X)                        |
| Add page break AppleCont_Purchase Would you purchase this item at Food Hub for \$0.49?      Ves     No  AppleCont_Sut If you had purchased this item how satisfied would you be with your purchase?      Enternety disatisfied     Somewhat disatisfied     Somewhat disatisfied     Somewhat disatisfied     Somewhat disatisfied     Suther satisfied  | * **<br>* ** (x)                        |
| Add page break AppleCont_Purchase Would you purchase this item at Food Hub for \$0.49?      Viss     No  AppleCont_Sat If you had purchased this item how satisfied would you be with your purchase?      Disastisfied     Somewhy disastified     Somewhy disastified | * ×+<br>* ×+ (x)                        |

Figure B2: Apple Control Condition

| Represent 1  |                                  |
|--|----------------------------------|
| For the next section of the survey, imagine you are shonning at Food Hub Market. Food  |                                  |
| Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read  |                                  |
| each question carefully and answer as honestly as you can.   |                                  |
|  |                                  |
| + Add page break   |                                  |
| FlourCont_2  |                                  |
| Flour 10kg, Food Hub price: <u>\$6.31</u>  |                                  |
| western family<br>Mill purpose<br>white - pre-whet<br>mentode - pre-whet |                                  |
| FlowCost_Purchase<br>Would you purchase this item at Food Hub for \$6.31?  | * ×*                             |
| O Yes  |                                  |
| - No   |                                  |
|  |                                  |
|  |                                  |
| FlourCont_Sat  | ★ ×+ (x)                         |
| If you had purchased this item how satisfied would you be with your purchase?  |                                  |
| O Extremely dissatisfied   |                                  |
| O Dissatisfied   |                                  |
| Somewhat dissatisfied  |                                  |
| Neither satisfied nor dissatisfied   |                                  |
| O Somewhat satisfied   |                                  |
| ○ Satisfied  |                                  |
| <ul> <li>Extremely satisfied</li> </ul>  |                                  |
|  |                                  |
|  | Import from Ubrary + Add new gue |

Figure B3: Flour Control Condition

| RiceCont_1   |   |         |                   |
|--|---|---------|-------------------|
| For the next section of the survey imagine you are shonning at Food Hub Market. Food   |   |         |                   |
| Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read  |   |         |                   |
| each question carefully and answer as honestly as you can.   |   |         |                   |
|  |   |         |                   |
|  |   |         |                   |
| RiceCont_2   |   |         |                   |
| White Basmati Rice 907g, Food Hub price: \$3.04  |   |         |                   |
| western family:<br>White basmati rices<br>riz basmati blanc  |   |         |                   |
| 30-10 mm   |   |         |                   |
| RiceCont_Purchase  |   | *       | X.+               |
| RiceCont_Purchase Would you purchase this item at Food Hub for \$3.04?   |   | *       | X.4               |
| RiceCont, Purchase Would you purchase this item at Food Hub for \$3.047 Ves  |   | *       | X.4               |
| RiceCont, Purchase Would you purchase this item at Food Hub for \$3.04?  Vis No  |   | *       | X÷                |
| RicsCont, Purchase<br>Would you purchase this item at Food Hub for \$3.04?   |   | *       | X÷                |
| RiceCont, Purchase Would you purchase this item at Food Hub for \$3.04?  Vis No  |   | *<br>×  | ×+<br>(×)         |
| RiceCont, Purchase Would you purchase this item at Food Hub for \$3.04?  Vis No No AnCrk_1 Select "No"   |   | *<br>×  | ×+<br>(×)         |
| RiceCont_Purchase Would you purchase this item at Food Hub for \$3.04?  Viss No ARCrk_1 Select "No" Vis Vis  |   | *       | ×+<br>(×)         |
| RiceCont, Purchase Would you purchase this item at Food Hub for \$3.04?  Viss No Ascrk_1 Select "No" No  |   | *       | x.+<br>(x)        |
| RiceCont_Purchase Would you purchase this item at Food Hub for \$3.04?  Vis  AntCrk_1 Select "No"  Vis No  |   | ×       | x.+               |
| RECORT_Sat   |   | ×<br>×+ | (x)               |
| RiceCont_Purchase Would you purchase this item at Food Hub for \$3.04?  Vis  AnCPk_1 Select "No"  No  RiceCont_Sat If you had purchased this item how satisfied would you be with your purchase?   | ŕ | ×+      | (x)               |
| RiceCont, Purchase         Would you purchase this item at Food Hub for \$3.047         ' Yes         > No         AnChk_1         Select 'No'         ' Yes         > No  |   | ×+      | x.+<br>(x)        |
| RiceCont_Purchase         Would you purchase this item at Food Hub for \$3.04?         \vis         \vis         \vis         RiceCont_Sat         If you had purchased this item how satisfied would you be with your purchase?         \vis         \v | ŕ | ×<br>×+ | x.+<br>(x)<br>(x) |
| RiceCont_Purchase this item at Food Hub for \$3.04?  Viss No  AntCrk_1 Select "No"  No  RiceCont_Sat If you had purchased this item how satisfied would you be with your purchase?  Biosatisfied Senemaly dissuffied Senemaly dissuffied   |   | ×<br>×+ | (x)               |
| RiceCont_Purchase         Would you purchase this item at Food Hub for \$3.04?         \ns         \ns         \ns         AntChk_1         Select "No"         \ns         No         RiceCont_Sat         If you had purchased this item how satisfied would you be with your purchase?         Extremely diseatabled         Sestimated and diseatabled         Sestimated and diseatabled  |   | ×<br>×+ | (x)               |
| RiceCont, Purchase         Would you purchase this item at Food Hub for \$3.047         \nsi   | ŕ | ×+      | x.+<br>(x)<br>(x) |
| RiceCont_Purchase         Would you purchase this item at Food Hub for \$3.04?         \vis         \vis         \vis         \vis         Select 'No'         \vis         \vis         No         RiceCont_Sat         If you had purchased this item how satisfied would you be with your purchase?         Externel disatisfied         Issuitified         Semental disatisfied         Semental disatisfied         Semental disatisfied         Semental disatisfied  | ł | ×+      | x.+<br>(x)<br>(x) |

Figure B4: Rice Control Condition



Figure B5: Cheerios Control Condition

| vestern family<br>pretzel<br>sticks<br>brezels en båtonnets<br>Vezets en båtonnets<br>Vezets en båtonnets<br>Vezets en båtonnets<br>Vezets en båtonnets  |          |         |     |
|--|----------|---------|-----|
| PretzelCont Durchase   | *        | ×→      | (:  |
| Would you purchase this item at Food Hub for \$1.18?   |          |         |     |
| Would you purchase this item at Food Hub for \$1.18?   |          |         |     |
| Would you purchase this item at Food Hub for \$1.18?  Ves No PretzelCont_Sat   | *        | X→      | (;  |
| Would you purchase this item at Food Hub for \$1.18?         Yes         No         PretzelCont_Sat         If you had purchased this item how satisfied would you be weat the set of the | ×        | x→      | (;  |
|  | vith you | ir purc | cha |
| Vould you purchase this item at Food Hub for \$1.18?  Ves No PretzelCont_Sat If you had purchased this item how satisfied would you be w Extremely dissatisfied  | *        | x→      | ()  |
|  | vith you | Ir purc | cha |
| Would you purchase this item at Food Hub for \$1.18?         Yes         No         PretzelCont_Sat         If you had purchased this item how satisfied would you be w         Extremely dissatisfied         Dissatisfied  | ×        | x→      | (;  |
|  | vith you | Ir purc | cha |
| Would you purchase this item at Food Hub for \$1.18?         Yes         No         PretzelCont_Sat         If you had purchased this item how satisfied would you be w         Extremely dissatisfied         Dissatisfied         Somewhat dissatisfied  | *        | x→      | (;  |
|  | vith you | Ir purc | cha |
| Would you purchase this item at Food Hub for \$1.18?         Yes         No         PretzelCont_Sat         If you had purchased this item how satisfied would you be w         Extremely dissatisfied         Dissatisfied         Somewhat dissatisfied         Neither satisfied nor dissatisfied   | ⊁        | x→      | (;  |
|  | ∕ith you | Ir purc | cha |
| Would you purchase this item at Food Hub for \$1.18?         Yes         No         PretzelCont_Sat         If you had purchased this item how satisfied would you be w         Extremely dissatisfied         Joissatisfied         Somewhat dissatisfied         Neither satisfied nor dissatisfied         Somewhat satisfied   | *        | x→      | (;  |
|  | vith you | Ir purc | cha |

Figure B6: Pretzel Control Condition

|   | OliveCont_1  |    |     |
|---|--|----|-----|
|   | For the next section of the survey, imagine you are shopping at Food Hub Market. Food<br>Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read<br>each question carefully and answer as honestly as you can.   |    |     |
|   |  |    |     |
|   |  |    |     |
|   |  |    |     |
|   | OliveCont_Purchase   | *  | хə  |
| , | Would you purchase this item at Food Hub for \$5.46?   |    |     |
|   | O Yes  |    |     |
|   | O No   |    |     |
|   |  |    | 1.1 |
|   | removes, and the set of the set o | ~* | (~) |
|   | n you naw paranawa wa nami non awaliku mutu you uk mui you pulatase?   |    |     |
|   |  |    |     |
|   | Somewhat disselsified  |    |     |
|   | Neither satisfied nor dissatisfied   |    |     |
|   | Somewhat satisfied   |    |     |
|   | Skitched   |    |     |
|   |  |    |     |

Figure B7: Olive oil Control Condition

| flour experimental   |             |
|--|-------------|
| Toole segmentmental  |             |
| FlourExp_1   |             |
| For the next section of the survey, imagine you are shopping at Food Hub Market. Food  |             |
| Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read  |             |
| each question carefuily and answer as nonesity as you can.   |             |
|  |             |
| FlourExp_2   |             |
| Flour 10kg, Food Hub price: <u>\$6.31</u> (FYI, Save-On-Foods Price: <u>\$9.99</u> )   |             |
|  |             |
|  |             |
|  |             |
|  |             |
|  |             |
| western family   |             |
| all purpose  |             |
| white flour ,  |             |
| enriched - pre-sified  |             |
|  |             |
|  |             |
|  |             |
|  |             |
| and a second sec |             |
| 10 kg  |             |
|  |             |
|  |             |
| FlourExp_Purchase  | 大 x+        |
| Would you purchase this item at the Food Hub at \$6.31?  |             |
| O Yes  |             |
| O No   |             |
|  |             |
| FlourExp_Sat   | * x+ (x)    |
| If you had purchased this item how satisfied would you be with your purchase?  |             |
| Determine description  |             |
| Disatified   |             |
| Semewhat distatisfied  |             |
| Neither satisfied  |             |
| Somewhat satisfied   |             |
| - Satisfied  |             |
| Extremely satisfied  |             |
|  |             |
|  | Add pase as |
|  |             |

Figure B8: Flour Experimental Condition

# BUYING INTO COMPARATIVE PRICING

| CheerioExp 1  |                     |
|---|---------------------|
| For the next section of the survey, imagine you are shopping at Food Hub Market. Food   |                     |
| Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read   |                     |
| each question carefully and answer as honestly as you can.  |                     |
|   |                     |
| Chandeline 2  |                     |
| Unerrower and the second |                     |
| And   |                     |
| CheericExp_Purchase   | * ו                 |
| Would you purchase this item at Food Hub for \$4.40?  |                     |
| O Yes   |                     |
| O No  |                     |
|   |                     |
| CheerioExp_Sat  | ★ ×+ (×)            |
| If you had purchased this item how satisfied would you be with your purchase?   |                     |
| O Extremely dissatisfied  |                     |
|   |                     |
| <ul> <li>Dissatisfied</li> </ul>  |                     |
| Dissutated     Sorrowhat dissatisfied   |                     |
| Desartisfied     Somewhat dissutisfied     Neither satisfied desartisfied   |                     |
| Disastöfed     Somewhat disastisfied     Neither satisfied     Somewhat satisfied   |                     |
| Dissatofred Somewhat dissatisfied Neither satisfied nor dissatisfied Somewhat satisfied Somewhat satisfied  |                     |
| Dissatiafied Somewhat dissatisfied Neither satisfied Somewhat satisfied Steatementy satisfied Extremely satisfied   |                     |
| Disastofied Somewhat disastisted Neither satisfied Somewhat satisfied Extremely satisfied Extremely satisfied   | I seed from library |

Figure B9: Cheerios Experimental Condition

# BUYING INTO COMPARATIVE PRICING

| Apple experimental  |                     |
|---|---------------------|
| AnniaEuro 1   |                     |
| Popuresu_1<br>For the next section of the survey, imagine you are shopping at Food Hub Market. Food<br>Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read<br>each question carefully and answer as honestly as you can.  |                     |
| AppleExp 2  |                     |
| Apple (red delicious), Food Hub price: <u>\$0.49</u> (FYI Save-On-Foods price: <u>\$1.67</u> )  |                     |
|   |                     |
| AggieBas Purchase   | * **                |
| AppleExp_Purchase<br>Would you purchase this item at Food Hub for \$0.49?<br>Vies<br>No   | × x+                |
| AppleExp_Purchase Would you purchase this item at Food Hub for \$0.49?  Visa No   | * x+<br>* x+        |
| AppidEtgs_Purchase Would you purchase this item at Food Hub for \$0.49?  Vies No  AppideExp_Sat If you had purchased this item how satisfied would you be with your purchase? Externelly dissuitified Dissatified Dissatified   | * ×+<br>* ×+ (x)    |
| AppleExg_Purchase Would you purchase this item at Food Hub for \$0.49?  Vies No  AppleExg_Sat If you had purchased this item how satisfied would you be with your purchase? Extremity disastified Disastified Disastified Simenhal disastified Simenhal disastified Simenhal disastified Simenhal disastified Simenhal disastified  | * ×+<br>* ×+ (x)    |
| AppleExg_Purchase Would you purchase this item at Food Hub for \$0.49?  Visi No  AppleExg_Sat If you had purchased this item how satisfied would you be with your purchase?  Extremity disadisfied Disadisfied Disadisfied Disadisfied Somewhat disadisfied Somewhat satisfied Extremity satisf | , × ×+<br>, × × (x) |

Figure B10: Apple Experimental Condition

| PretzelExp_1  |                  |
|---|------------------|
| For the next section of the survey, imagine you are shopping at Food Hub Market. Food<br>Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read<br>each question carefully and answer as honestly as you can.  |                  |
| PretzeiExp_2  |                  |
| Pretzel Sticks 200g, Food Hub price: <u>\$1.18</u> (FYI Save-On-Foods price: <u>\$1.99</u> )  |                  |
| 200 g   |                  |
| PretzelExp_Purchase         Would you purchase this item at Food Hub for \$1.18?         • Yes         • No   | * ×*             |
| PretzelExp_Purchase         Would you purchase this item at Food Hub for \$1.18?         • Yes         • No   | × ×+<br>× ××     |
| PretzelExp_Purchase         Would you purchase this item at Food Hub for \$1.18?         Vbs         No   | × ×+<br>× ×+ (x) |
| PretzelExp_Purchase         Would you purchase this item at Food Hub for \$1.18?         Ves         No   | × ×+<br>× ×*     |
| PretzelExp_Purchase         Would you purchase this item at Food Hub for \$1.18?         • Yes         • No         PretzelExp_Sst         If you had purchased this item how satisfied would you be with your purchase?         • Externely disartisfied         • Externely disartisfied                                  | * x+<br>* x+ (x) |
| PretzelExp_Purchase         Would you purchase this item at Food Hub for \$1.18?         • Yes         • No         PretzelExp_Sat         If you had purchased this item how satisfied would you be with your purchase?         • Extremely discatisfied         • Issuitafied         • Seriemely discatisfied            | * ×+<br>* ×+     |
| PretzelExp_Purchase         Would you purchase this item at Food Hub for \$1.18?         • Yes         • No         PretzelExp_SM         If you had purchased this item how satisfied would you be with your purchase?         • Entemety discussified         • Discussified         • Semewhar discussified         • No | * ×+<br>* ×+ (x) |
| PretzelEzp_Purchase Would you purchase this item at Food Hub for \$1.18?  Vis No  PretzelEzp_Sat If you had purchased this item how satisfied would you be with your purchase?  PretzelEzp_Sat Somewhat disadisfied Somewhat disadisfied Somewhat disadisfied Somewhat satisfied  | * ×+<br>* ×+ (x) |
| PretzelEzp_Purchase         Would you purchase this item at Food Hub for \$1.18?         • Yes         • No   | * ×+<br>* ×* (x) |

Figure B11: Pretzel Experimental Condition

# BUYING INTO COMPARATIVE PRICING

| coverp_1   |   |         |                   |
|--|---|---------|-------------------|
| For the next section of the survey, imagine you are shopping at Food Hub Market. Food  |   |         |                   |
| Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read  |   |         |                   |
| each question carefully and answer as honestly as you can.   |   |         |                   |
|  |   |         |                   |
| OliveExp_2   |   |         |                   |
|  |   |         |                   |
|  |   |         |                   |
| OfWeExp_Purchase<br>Would you purchase this item at Food Hub for \$5.46?<br>O Yes<br>O No  |   | *       | X÷                |
| OliveExp_Purchase<br>Would you purchase this item at Food Hub for \$5.46?<br>O Via<br>O No<br>AttChk_2   |   | *       | x.+<br>(x)        |
| OliveExp_Purchase<br>Would you purchase this item at Food Hub for \$5.46?<br>O Vea<br>O No<br>AttChi_2<br>Select "yes"   |   | *<br>×* | ×+<br>(x)         |
| CliveEup_Purchase Would you purchase this item at Food Hub for \$5.46? O Ves No AntChu_2 Select 'yes' O Ves  |   | *<br>×+ | x+<br>(x)         |
| OtiveExp_Purchase Would you purchase this item at Food Hub for \$5.46?  Via No No AccNiL_2 Select "yes" Via No No  |   | *<br>×* | x.+<br>(x)        |
| OliveExp_Purchase Would you purchase this item at Food Hub for \$5.46?  Via No AntChic_2 Select "yes" No   |   | *<br>X+ | x+<br>(x)         |
| OtiveExp_Purchase Would you purchase this item at Food Hub for \$5.46?   Viss  ActCNL_2 Select "yes"  Vis  Nos  Vis  Nos  Vis  Vis  Vis  Vis  Vis  Vis  Vis  V   | * | *<br>x+ | x+<br>(x)<br>(x)  |
| OtiveExp_Purchase         Would you purchase this item at Food Hub for \$5.46?         > Ves         > No         ARCM_2         Select 'yes'         > Ves         > No         OtiveExp_Sat         OtiveExp_Sat         If you had purchased this item how satisfied would you be with your purchase?   | * | *<br>x+ | x.+<br>(x)<br>(x) |
| OtweExp_Purchase         Would you purchase this item at Food Hub for \$5.46?         • Yea         • No         ARCNK_2         Select "yes"         • No         OtweExp_Sat         If you had purchased this item how satisfied would you be with your purchase?         • Dementy datastied         • Rementy datastied   | * | *<br>x+ | ×+<br>(×)         |
| OliveExp_Purchase         Would you purchase this item at Food Hub for \$5.46?         \na         \na </td <td>*</td> <td>*<br/>x+</td> <td>x+<br/>(x)<br/>(x)</td> | * | *<br>x+ | x+<br>(x)<br>(x)  |
| OtheEpp_Purchase         Would you purchase this item at Food Hub for \$5.46?         \va         \va <td>*</td> <td>*<br/>x+</td> <td>×+<br/>(×)</td>               | * | *<br>x+ | ×+<br>(×)         |
| OtveExp_Purchase         Would you purchase this item at Food Hub for \$5.46?         ' Yes         ' No         AncrAr_2         Select 'yes'         ' Yes         ' No         OtweExp_Sat         If you had purchased this item how satisfied would you be with your purchase?         OtweExp_Sat         If you had purchased this item how satisfied would you be with your purchase?         Deturned disatified         Statistical         Statistical         Statistical         Statistical         Withits satistical   | * | *<br>x+ | ×+<br>(x)         |
| OtveExp_Purchase         Would you purchase this item at Food Hub for \$5.46?         ' Yes         ' No         AtCMK_2         Select 'yes'         ' Yes         ' No         OtveExp_Sat         If you had purchased this item how satisfied would you be with your purchase?         © threewid standarded         © someward standarded         Setting of someward standarded         © someward standarded         © writher andiatoried         © someward standarded  | * | *<br>x+ | ×+<br>(x)<br>(x)  |
| OtweExp_Purchase         Would you purchase this item at Food Hub for \$5.46?         • Yea         • No         ARCNK_2         Select "yes"         • No         OtweExp_5st         If you had purchased this item how satisfied would you be with your purchase?         • bremely disatified         • Statified         • Somewhat statified         • Statified         • Statified         • Statified         • Statified         • Statified  | * | *<br>x+ | x.+<br>(x)<br>(x) |

Figure B12: Olive Oil Experimental Condition

| RiceExp_1  |          |
|--|----------|
| For the next section of the survey, imagine you are shopping at Food Hub Market. Food<br>Hub Market is an at-cost grocery store located on UBC Vancouver campus. Please read<br>each question carefully and answer as honestly as you can.   |          |
|  |          |
| RiceExp_2  |          |
| White Basmati Rice 907g, Food Hub price: \$3.04 (FYI Save-On-Foods Price: \$5.79)  |          |
| And and a second a |          |
| RiceExp_Purchase   | * ×+     |
| Would you purchase this item at Food Hub for \$3.04?   |          |
| ○ ves<br>○ No  |          |
|  |          |
| RiceExp_Sat  | * ×* (x) |
| If you had purchased this item how satisfied would you be with your purchase?  |          |
| Extremely dissatisfied   |          |
| Dissatisfied   |          |
| Somewhat dssatsted   |          |
| Netter satisfied nor dissatshed  |          |
| Somewhat satisfied   |          |
| Satisfied  |          |
| <ul> <li>Extremely satisfied</li> </ul>  |          |

Figure B13: Rice Experimental Condition

| UBC   | *       |
|---|---------|
| Do you attend UBC?  |         |
| 0 We  |         |
| 0. No   |         |
|   |         |
| YearOfSchooling   | *       |
| What level of schooling are you currently in?   |         |
| O First Year Undergraduate  |         |
| O Second Year Undergraduate   |         |
| Third Year Undergraduate  |         |
| O Fourth Year Undergraduate   |         |
| O Fith+   |         |
| O Graduate  |         |
| None of the above (please specify)  |         |
|   |         |
| Age   | *       |
|   |         |
| What is your age in years?  |         |
| What is your age in years?<br>18 27 36 45 54 63 72 81 90 99   |         |
| What is your age in years?<br>18 27 36 45 54 63 72 81 90 99   |         |
| What is your age in years?<br>12 27 36 45 54 63 72 81 90 99<br>Plice sider on<br>your age.  |         |
| What is your age in years?<br>ta 27 36 45 54 63 72 81 90 99<br>Place stider on<br>your age.   |         |
| What is your age in years?         18         27         36         45         54         63         72         81         90         99           Place sider on your age.   |         |
| What is your age in years?<br>18 27 36 45 54 63 72 81 90 90<br>Place sider on<br>your age.<br>AttCrk_3  | x.ə (x) |
| What is your age in years?           1a         27         36         45         54         63         72         85         90         99           Pice sider on your age.  | x+ (x)  |
| What is your age in years?           1a         27         36         45         54         63         72         81         90         99           Pluce sider on your age.         1 | xə (x)  |
| ta         27         36         45         54         63         72         81         90         99           Place sidar on<br>your age.         1     | x.ə (x) |
| What is your age in years?         ta       27       26       54       63       72       81       90       99         Place sider on your age.  | x.+ (x) |
| What is your age in years?         12       27       36       45       54       63       72       85       90       90         Plice sider on your age.   | x+ (x)  |
| What is your age in years?         12       27       36       65       54       63       72       85       90       90         Place sider on your age.       1 <t< td=""><td>x+ (x)</td></t<>  | x+ (x)  |
| What is your age in years?  | x+ (x)  |
| What is your age in years?  | ×+ (x)  |
| What is your age in years?  | x+ (x)  |
| What is your age in years?         10       27       36       65       54       63       72       85       90       90         Place sider on year age.       10 <td>x* (x)</td>   | x* (x)  |
| What is your age in years?  | x * (x) |

Figure B14: Demographic Questionnaire

| Debriat   | ió:                              |
|---|----------------------------------|
| Thank you for participating in our study. We will now provide you with a detailed         | Ŷ                                |
| explanation of the study.   |                                  |
| The purpose of our study was to examine how presenting consumers with the                 |                                  |
| conventional price of food items alongside its at-cost price impacts consumer             |                                  |
| satisfaction and intent to purchase. Some of you were assigned to the first condition,    |                                  |
| where you were given only the at-cost price of food items, while some of you were         |                                  |
| assigned to the second condition, where you were given both the conventional price and    |                                  |
| food items and asked to rate their intent to purchase and their purchase satisfaction.    |                                  |
| We expect that participants will have a higher intent to purchase food items as well as   |                                  |
| be more satisfied with their purchase when presented with both the conventional and at-   |                                  |
| cost price.   |                                  |
| Many students at UBC are food insecure, and it is imperative that this issue be           |                                  |
| addressed as food insecurity is associated with lower academic performance as well as     |                                  |
| poor mental and physical health outcomes (Bruening et al., 2017). In order to tackle      |                                  |
| rood insecurity caused by a lack of financial resources, UBC's student-run Food Hub       |                                  |
| intend for this study and the data you provided us to impact marketing strategies to      |                                  |
| improve sales at Food Hub Market, as well as help find strategies to better inform the    |                                  |
| student population of cheaper food options at UBC.  |                                  |
| Thank you for your time and your cooperation.   |                                  |
| Bruening, M., Argo, K., Payne-Sturges, D., & Laska, M. N. (2017). The struggle is real: A |                                  |
| systematic review of food insecurity on Postsecondary Education campuses. Journal of      |                                  |
| the Academy of Nutrition and Dietetics, 117(11), 1767–1791.                               |                                  |
| https://doi.org/10.1016/j.jand.2017.05.022  |                                  |
|   | Import from library + Add new qu |
| Add Block   |                                  |
| resy  |                                  |
| We thank you for your time spent taking this survey.                                      |                                  |
|   |                                  |

Figure B15: Debrief Survey

# Appendix C

## **Contributions of Each Team Member**

### Worksheet for client

• All equally contributed to the creation of worksheet, except Maxime who was absent

## Proposal

- Collaboratively brainstormed and came up with general ideas
- Elisabelle wrote up the entirety of the proposal, except the background literature
- Background literature was collaboratively written by Jax, Maxime, Meilee
- Max D. was absent
- Jax and Maxime worked on the creation of the Qualtrics survey
  - All members provided edits to the survey's and avenues of improvement except Nameera
  - Nameera worked on the survey's debrief

# Presentation

- Slides created by all group members except Jax
- Presented by all members except Maxime

# **Final Paper**

- Maxime in charge of all statistical analysis and running those tests in SPSS
- Maxime wrote up the results section
- Meilee and Elisabelle collaboratively wrote the introduction and found all references
- Elisabelle formatted the paper in APA, except the appendix as that was completed by Jax, Maxime and Meilee
- Elisabelle did participant section with inputted information by Maxime
- Elisabelle did research questions and hypothesis section
- Max D and Jax did the conditions, measures and procedure
- Max D and Jax collaboratively wrote up the discussion section
- Elisabelle came up with title
- Meilee and Elisabelle collaboratively wrote recommendations section
- Executive summary written by Meilee and Nameera
- Elisabelle provided massive edits to and contributed on every single portion of the paper
- Maxime and Nameera wrote limitations section
- All members provided final edits to cut down and improve readability, grammar, etc.