How important is the tuition fee during the COVID-19 pandemic in a developing country? Evaluation of filipinos’ preferences on public university attributes using conjoint analysis

Zachariah John A. Belmontea,b,c, Yogi Tri Prasetyoa,d,e,*, Ardvin Kester S. Ong a, Thanatorn Chuenyindeef, Nattakit Yuduanga,b, Poonyawat Kusonwattanaa,b, Reny Nadlifating, Satria Fadil Persadah, Thapanat Buaphibanf

a School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralla St., Intramuros, Manila 1002, Philippines
b School of Graduate Studies, Mapúa University, 658 Muralla St., Intramuros, Manila 1002, Philippines
c Mechanical Engineering & Allied Department, Technological University of the Philippines, Western Bicutan Taguig 1630, Philippines
d International Program in Engineering for Bachelor, Yuan Ze University, 135 Yuan-Tung Road, Chung-Li 32003, Taiwan
e Department of Industrial Engineering and Management, Yuan Ze University, 135 Yuan-Tung Road, Chung-Li, 32003, Taiwan
f Department of Industrial Engineering and Aviation Management, Navaminda Kasatriyadhiraj Royal Air Force Academy, Bangkok, 10220, Thailand
g Department of Information Systems, Institut Teknologi Sepuluh Nopember, Kampus ITS Sukolilo, Surabaya 60111, Indonesia
h Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

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ABSTRACT

In a developing country like the Philippines, it is critical to understand the important factors which lead college students to their current colleges and universities, especially during the COVID-19 pandemic. This study utilized the conjoint analysis approach with an orthogonal design for evaluating understudy’s inclination in choosing a college with the various attributes such as the tuition fee, distance or location, employability, academic reputation, recommended by friends and peers, recommended by family or relatives, and the availability to transfer was assessed. A total of 518 Filipino students studying at public and state universities participated in answering the 16 combined attributions about university preference using purposive sampling approach. Based on the utilities estimate, the most important attribute was the tuition fee of the preferred university with an importance value of about 32.839%, followed by the employability rate of the university with about 6% gap difference. The mid-concerned attributes were the distance/location with an estimated of 11.139%, recommendation of friends or peers with approximately 11.689% tying together, and the academic reputation with an estimated of 10.638%. The two least important attributes were identified to be the availability to transfer, having with only about 2.713%, and the recommendation of parents with only 2% difference at approximately 4.453%. The outcomes of this study can aid college chairmen and enrolment specialists tweak their advertising procedures by giving significant data to the chief gatherings engaged with settling college decision choices.

1. Introduction

The current worldwide and public socio-political, monetary, and instructive scenes are challenged with the COVID-19 pandemic (Cuaton, 2020), especially in developing countries such as the Philippines. According to the Department of Health (DOH), this COVID-19 pandemic has taken a toll on the lives of many Filipinos, impacting both the psychological and social well-being of many who are still adapting to the current circumstances (doh.gov.ph, 2020). With the spread of the said virus, governments employed many health protocols and temporarily close their academic institutions.

Additionally, as a consequence of the pandemic, more than 1.3 billion learners worldwide have been affected, and among them are over 28 million Filipino students across different academic levels that required to remain at their respective households and cooperate with the safety measures implemented by the local government (UNESCO, 2020).
Computer-mediated learning had been used as a means for synchronous learning, live talks, time-sensitive results appraisals, pre-recorded video talks, and time-autonomous evaluations (Oztok et al., 2013).

One of a student’s major decisions that will determine the form and quality of their student life is choosing a university with money, effort, and time involved in the selection process (Boyer, 1987; Canterbury, 2000). The university environment is seized with challenges of being government-sponsored students which creates bigger competition for Filipino students among other universities (Harden and Mengersen, 2014). Thus, it is required to evaluate the Filipinos’ preferences in choosing their university one of the most suitable methods is conjoint analysis.

Conjoint analysis is a multivariate tool to measure people’s preferences and understand a group’s attributes based on an evaluation of the complete set-up (Gracia-Pérez and Gil-Lacruz, 2013; Mok et al., 2010) and has been widely used by educational studies such as among university students (Seeniah et al., 2017), experiential learning preferences (Macindo et al., 2019) and improvement of intellectual property (Mok et al., 2010). Conjoint experiments were also used by Hooley and Lynch (1981) in their study regarding university location, course suitability, distance from home, academic reputation, advice from relatives and professors, and type of university (modern or old) as the key factors about the decision of the students to enroll in a university. In the Philippines, Factor and de Guzman (2017) utilized the conjoint analysis approach to the instructor preferences of Filipino nursing students and recently, Ong et al. (2021a, b) used the same method in analyzing the preferences of online learning attributes among senior high school students during the COVID-19 pandemic.

School leavers’ key decision-making attributes include reputation, location, and content of the course. It was discovered course content was of prime significance in the beginning phases of the dynamic cycle with location becoming increasingly important as consumption process nears as well (Moogan and Baron, 2003). In the US and Western countries, most investigations in school decisions are directed. On the contrary, the Philippines has limited research on students’ choice of college which has implications for university’s recruitment strategies (Liu, 2008). Furthermore, the widespread infection of the COVID-19 virus could have possibly affected their shift of choices. Knowing the benefits that may come to aid of these students as well as those to come.

The Philippine Commission on Higher Education (CHED) statistics data recorded the University of the Philippines (UP) as first in terms of enrollment with 57,387 enrolments and the Polytechnic University of the Philippines as 2nd with 56,928 enrollment as of October 8, 2020 (Statistics, 2020). Learners lean toward the high standing and great job possibilities as their decision standards and communication of their concerns with respect to the interpersonal organization’s impact had been continuous (Kusumawati, 2011). However, Hooley and Lynch stated that course suitability and academic reputation were the essential determinants of university choice (Hooley and Lynch, 1981). The choice to take a crack at higher instructive establishments can possibly change individuals, and consequently, is a significant approach issue (Kusumawati, 2011).

This study incorporated the conjoint analysis approach with an orthogonal design for evaluating understudy’s inclination in choosing a college with the various attributes such as the tuition fee, distance or location, employability, academic reputation, recommended by friends and peers, recommended by family or relatives, and the availability to transfer was assessed. The outcomes can help college chairmen and enrolment specialists tweak their advertising procedures by giving significant data to the chief gatherings engaged with settling on college decision choices.

2. Methodology

2.1. Participants

This study was approved by Mapua University Research Ethics Committees. A purposive sampling was utilized to gather respondents with the use of an online platform such as Facebook and Messenger ( Sethuraman et al., 2005). Computer-mediated environment was sufficient for conducting conjoint analysis ( Sethuraman et al., 2005; Belmonte et al., 2021). A total of 518 Filipino students studying at public and state universities participated in answering the 16 combined attributes about university preference during the pandemic through an online survey accessible from 14 December 2022 to 23 December 2022. The sampling frame consisted of senior high school leavers and freshmen college students from the school year 2020–2021. These individuals were chosen as a sampling frame because they can give precise data on how they viewed their decision measures as they are currently choosing a state-funded college amidst the COVID-19 pandemic.

2.2. Demographics

Table 1 presents the demographics of the study. Among the 518 Filipino college students who are enrolled in the academic year 2020–2021, 54.2% were female, 41.5% were male, and 4.1% were unspecified. Most of the respondents were aged 18–20 years old (91.9%). The other respondents were aged below 17 years old (2.9%), 21–23 years old (4.7%), and above 24 years old (0.5%).

2.3. Conjoint design

The research design was adopted from the conjoint design model used by Ong et al. (2021). The attributes in choosing a university are presented in Table 2. This study considered 7 attributes namely: tuition (free, low, and high), Distance or location (Close: less than 10 km, moderate: 10–20 km, and far: over 20 km), employability (good, average, and poor), academic reputation (strong, average, and poor), recommended by friend and peers (yes or no), recommended by parents or relatives (yes or no), and availability to transfer (able or not able).

The first attribute Tuition has to do with the money that learners would need to pay comprising of educational expenses, food, lease, and other expenses from the date of initiation of study until graduation. Since learners from lower-pay foundations prevent from going to college

| Table 1. Demographics (n = 518). |
|-----------------------------------|
| Characteristics | Category | n | %  |
| Gender          | Male     | 215 | 41.5% |
|                 | Female   | 281 | 54.2% |
|                 | Other    | 21  | 4.1%  |
| Age             | Below 17 | 15  | 2.9%  |
|                 | 18–20    | 474 | 91.9% |
|                 | 21–23    | 24  | 4.7%  |
|                 | Above 24 | 3   | 0.5%  |

| Table 2. Attributes of a university. |
|--------------------------------------|
| Attributes                        | Levels                                      | Source                        |
| Tuition                           | Free, Low, and High                        | (Gunn et al., 2012; Anderson et al., 2020) |
| Distance/Location                 | Close (less than 10 km), Moderate (10–20 km), and Far (over 20 km) | (Soutar and Turner, 2002; Hooley and Lynch, 1981) |
| Employability                     | Good, Average, and Poor                    | (Holley and Lynch, 1981; Basha et al., 2019) |
| Academic Reputation               | Strong, Average, and Poor                  |                                |
| Recommended by friends and peers  | Yes or No                                   |                                |
| Recommended by Parents/Relatives  | Yes or No                                   |                                |
| Availability to transfer          | Able or not able                            | (Soutar and Turner, 2002)      |
(TRUST, 2010). Tuition fees are payments charged by education institutions for instruction or other services. For the tuition fee, three levels were considered: Free tuition fee, low tuition fee, and high tuition fee. Free tuition fees are commonly offered by State Technical Universities and Colleges (SUCs) (Lim et al., 2018), while low and high tuition fees are offered by private universities.

Second, distance or location is concerned with the separation from home including the time taken to get to college. Among understudies from lower-pay families felt far more the negative effect of distance, which supports the notion that an enormous piece of the motivation behind why distance is such a strong hindrance to going to college is financial costs (Frenette, 2004). In the attribute distance or location, students can opt for close ranges of less than 10-kilometer, moderate ranges from 10-20 km, and far range more than 20 km.

Third, employability refers to the scope of profession openings accessible to understudies subsequent to graduating. Employability is an attribute that employers will anticipate that is fundamental for the future compelling working of their organization (Harvey, 1999). However, from being ‘the inclination of the individual understudy to get business to an institutional achievement’ the understanding of employability may change (Harvey, 2001). For employability, three levels were considered: good, average, and poor.

Fourth, academic reputation denotes the total university’s reputation such as ranking of the university status, achievement of the university, and accreditation as a result of the quality of education including learning experience and teaching quality experience. Most students viewed the university's academic reputation as very important to have a successful career (Conard and Conard, 2006; Tavares et al., 2021). Students’ preference of university reputation also was connected with the actual exclusivity, career preparation, academic reputation, and curriculum (Wilbur, 1988). The most enduring perception of a university was its academic reputation. Three levels were considered in academic reputation: strong, average, and poor.

Fifth, the recommendation of friends and peers signify their experiences and knowledge (e.g. hear and read) that they choose a particular university. Being connected with other people influence their thoughts and emotions. They mostly liked and follow their friend’s careers (Seashore, 1962), which is also suggested by Ryan et al. (2010). In the attribute recommendation of friends and peers considered yes for endorsing that university, and no for rejecting the students' possible choice university.

Sixth, recommendation by parents and relatives refers to the protection, and health of their children is the parents’ responsibility. Their 3 bigger factors are social, economic, and cultural (Yaacob et al., 2014). On the other hand, Filipino immigrants and non-immigrants depend on their family's choice ( Saysay, 2011). In the attribute recommended by parents and relatives, two levels were considered: yes, and no.

Lastly, availability to transfer refers to offering the ability to receive and approve units from public to private universities (Soutar and Turner, 2002). In fact, non-public schools do not need to utilize the Ontario educational program except if they are looking for authority to give credits. For availability to transfer, two levels were considered: yes and no.

2.4. Statistical analysis

SPSS presents the minimum optimal orthogonal design available and has the option to add holdouts to determine internal consistency among the responses (Ong et al., 2021a,b). In the use of SPSS 28, conjoint analysis accompanied by orthogonal design was made and generated 16 stimuli. The main function of orthogonal design was to utilize the significant number of stimuli that were answered by the respondents. Table 3 shows the 16 stimuli rated by a 7-Point Likert Scale order from 1 as "Do not Prefer" to 7 as "Highly Prefer".

3. Results

Tables 4 and 5 define the utilities and the average important score of Filipino students’ preference in choosing a university during the COVID-19 pandemic. In view of the Average Importance Score, the Tuition Fee was the most important attribute for the students followed by employability, recommended by friends and peers, distance or location, academic reputation, recommended by parents and relatives, and ability to transfer. To decide the Utilities allotted to each level of the Attribute, Table 4 introduces the score of utility acquired from each attribute. First, with the tuition fee attribute, the majority of the students chose free tuition fee for the reason it had the highest score in the utility. Second, within the distance or location attribute, students preferred to choose close with the distance of less than 10 km rather than moderate and far with more than 20 km. Third, under the employability attribute, majority of the student preferred good employability followed by average, and poor employability. Fourth, for the academic reputation, a strong academic reputation obtained the highest utility score. For the fifth attribute, which is recommended by friends and peers, yes is the most favorable preference in the utilities for the students. Sixth, within the

### Table 3. Stimuli.

| Combination | Tuition Fee | Location | Employability | Reputation | Recommended by Friends | Recommended by Family | Availability to Transfer |
|-------------|-------------|----------|---------------|------------|------------------------|-----------------------|-------------------------|
| 1           | Low         | Far      | Good          | High       | yes                    | yes                   | Able                    |
| 2           | Free        | Moderate | Poor          | Average    | yes                    | yes                   | Able                    |
| 3           | Low         | Moderate | Average       | Strong     | no                     | yes                   | Not Able                |
| 4           | Free        | Moderate | Good          | Strong     | yes                    | no                    | Not Able                |
| 5           | High        | Close    | Average       | Strong     | yes                    | yes                   | Able                    |
| 6           | High        | Moderate | Good          | High       | No                     | no                    | Able                    |
| 7           | Free        | Close    | Average       | High       | Yes                    | no                    | Not Able                |
| 8           | Free        | Close    | Poor          | High       | No                     | yes                   | Not Able                |
| 9           | High        | Close    | Good          | Average    | No                     | yes                   | Not Able                |
| 10          | Free        | Close    | Good          | Strong     | No                     | no                    | Able                    |
| 11          | Low         | Close    | Good          | Average    | Yes                    | no                    | Not Able                |
| 12          | Low         | Close    | Poor          | Strong     | No                     | no                    | Able                    |
| 13          | Free        | Far      | Average       | Average    | No                     | no                    | Able                    |
| 14          | Free        | Close    | Good          | Strong     | Yes                    | yes                   | Able                    |
| 15          | Free        | Far      | Good          | Strong     | No                     | yes                   | Not Able                |
| 16          | High        | Far      | Poor          | Strong     | Yes                    | no                    | Not Able                |
recommended by parents and relatives attribute, alike with the previous attribute, yes is the most preferable in the utility. Lastly, for the availability to transfer, students prefer to choose universities that can transfer units rather than universities that do not offer approval to transfer or receive units.

Table 4. Utilities.

| Attributes          | Preference | Utility Estimates | Std. Error |
|---------------------|------------|-------------------|------------|
| Tuition Fee         | Free       | .487              | .088       |
|                     | Low        | .192              | .103       |
|                     | High       | -.679             | .103       |
| Distance/Location   | Close      | .204              | .088       |
|                     | Moderate   | -.013             | .103       |
|                     | Far        | -.191             | .103       |
| Employability       | Good       | .376              | .088       |
|                     | Average    | .190              | .103       |
|                     | Poor       | -.566             | .103       |
| Academic Reputation | Strong     | .166              | .088       |
|                     | Average    | -.212             | .103       |
|                     | High       | .046              | .103       |
| Recommended by friends/peers | Yes | .208              | .066       |
|                     | No         | -.208             | .066       |
| Recommended by family/relatives | Yes | .079              | .066       |
|                     | No         | -.079             | .066       |
| Availability to transfer | Able | .048              | .066       |
|                     | Not able   | -.048             | .066       |
| Constant            |            | 4.068             | .079       |

Table 5. Averaged importance score.

| Important Values                      | Score |
|---------------------------------------|-------|
| Tuition Fee                           | 32.839|
| Distance/Location                      | 11.139|
| Employability                          | 26.529|
| Academic Reputation                    | 10.638|
| Recommended by friends/peers           | 11.689|
| Recommended by family/relatives        | 4.453 |
| Availability to transfer               | 2.713 |

Table 6 shows how the 16 Stimuli were positioned. Combination 14 positioned first among the 16 Stimuli since it was the most liked among the undergraduates. Free, Close, Good, Strong, Yes, Yes, and Able were the properties under Combination 14. Then, Combination 16, which comprises of High, Far, Poor, Strong, Yes, No, and Not capable, came in last since it was the most unsupported among the undergraduates.

Pearson’s R and Kendall’s Tau insights are figured as synopsis proportions of decency of fit. They are accounted for as pointers of fit between the model and the acquired information (Green and Rao, 1971). Table 7 shows the correlation of stimuli that were evaluated in conjoint analysis. The result value of Pearson’s R is 0.983 and Kendall’s Tau value is 0.883. As the values acquired are near to 1, this shows that values are the fairly high and solid connection between perceiving and assessed preferences, as they ought to be for legitimate analyses.

4. Discussion

According to the different stimuli presented above, this conjoint study has shown results stating that most of the respondents consisting of mainly senior high school graduates and college students who accordingly chose combination 14 as the most favored preference in choosing a university amidst the Covid-19 pandemic. Particularly, universities with free tuition fee, close distance, good employability, strong academic reputation, recommended by friends and family, and offered availability to transfer were generally favored. The least preferred was combination 16 which denoted universities with high tuition fee, far distance, poor employability, yet strong academic reputation, recommended by friends but objected by the student’s family, and does not give the option to transfer.

Based on the utilities estimates, the most important attribute is the tuition fee with an importance value of about 32.839% followed by the employability rate of the university with approximately a 6% gap difference. The mid-concerned attributes like distance or location obtained an importance value around 11.139%, recommendation of friends or peers with an estimated 11.689%, and academic reputation with an estimated 10.638%. The least important attribute decided by the respondents are Availability to Transfer with only 2.713% followed by the Recommendation of Parents with only 2% difference at an estimate of 4.453%.

In accordance with the highest attribute, tuition fee is the most significant factor in students’ university preference. In fact, previous studies stated that 1000 students who are aspiring for higher education revealed that a university’s tuition fee decides their school enrollment. It detered

Table 6. Ranking of the stimulus.

| Combination | Tuition Fee | Distance/Location | Employability | Academic Reputation | Recommended by friends/peers | Recommended by family/relatives | Availability to transfer | Rank |
|-------------|-------------|-------------------|---------------|---------------------|-------------------------------|---------------------------------|--------------------------|------|
| 1           | Low         | Far               | Good          | High                | Yes                           | Yes                             | Able                     | 5    |
| 2           | Free        | Moderate          | Poor          | Average             | No                            | Yes                             | Able                     | 10   |
| 3           | Low         | Moderate          | Average       | Strong              | No                            | Yes                             | Not Able                 | 7    |
| 4           | Free        | Moderate          | Good          | Strong              | Yes                           | no                             | Not Able                 | 4    |
| 5           | High        | Close             | Average       | Strong              | Yes                           | yes                            | Able                     | 11   |
| 6           | High        | Moderate          | Good          | High                | No                            | no                             | Able                     | 15   |
| 7           | Free        | Close             | Average       | High                | Yes                           | no                             | Not Able                 | 3    |
| 8           | Free        | Close             | Poor          | High                | No                            | yes                            | Not Able                 | 12   |
| 9           | High        | Close             | Good          | Average             | No                            | yes                            | Not Able                 | 14   |
| 10          | Free        | Close             | Good          | Strong              | No                            | no                             | Able                     | 2    |
| 11          | Low         | Close             | Good          | Average             | Yes                           | no                             | Not Able                 | 6    |
| 12          | Low         | Close             | Poor          | Strong              | No                            | no                             | Able                     | 13   |
| 13          | Free        | Far               | Average       | Average             | No                            | no                             | Able                     | 9    |
| 14          | Free        | Close             | Good          | Strong              | Yes                           | yes                            | Able                     | 1    |
| 15          | Free        | Far               | Good          | Strong              | No                            | yes                            | Not Able                 | 8    |
| 16          | High        | Far               | Poor          | Strong              | Yes                           | no                             | Not Able                 | 16   |
them to choose their preferred university (Fees, 2012a, 2012b; Research, 2011). In effect, a student who is of lower-income status enrolls to a university that their family can afford. Therefore, tuition fee affects the choice of student in choosing a university to study.

Free tuition fee is the most preferred level of the respondents. According to statistics (Statistics, 2020), a public university got the highest enrollment as of 2020 October. Free tuition fee aids lower-income families by lifting financial burdens brought by the institutions. The republic of the Philippines government passed the Philippine Republic Act 10931 or the Universal Access to Quality Tertiary Education Act to help more poor families avail of free higher education (Official Gazette, 2017; Ranada, 2017). The results are also parallel with a study by Dunnett et al. (2012) that suggests students are more likely to be put off by courses with higher tuition fees since they will experience more disutility. By letting students freely pursue their career goals, free tuition helps more Filipinos continue their education at a higher level which explains why it was highly preferred.

Distance or Location is the second most preferred attributes that the respondents considered. With classes conducted remotely during the pandemic, location is one of the major factors to consider in choosing a suitable university which factors in the proximity of the school from home, budget to take public transportation, and ability to rent near the school. However, these aspects were discarded due to unavoidable circumstances to minimize the spread of the COVID-19 pandemic and the decision of the government to conduct all classes online in response to the needs of learners (A., 2021).

Employability is the third most important among the attributes based on the results in the utility estimates. According to Helen Kempster, studying at a university can give someone an advantage in their future career (H.). Asides from the job opportunities awaiting students who graduated from higher education, employability also considers honing traits, skills, and abilities that make someone stand out from the crowd, which is an advantage in facing fellow fresh graduates who finished their higher education in the same field.

Academic reputation was found to be a mid-preference attribute. Saavedra et al. (2016) revealed academic reputation as a very important part for students to consider in choosing where they should enroll (Saavedra et al., 2016). Academic reputation is not just the prestige of one school but its ability to nurture its students to their chosen field (Saavedra et al., 2016).

Recommendation by friends and peers was found to be the third preference by the respondents. In fact in other research, friends and peers are at the bottom (Open Government Access, 2016). Pummel, Harwood & Lavallee revealed that one of the factors that influence students in choosing university are friends and peer through their support and interaction (Pummell et al., 2008). They also give information regarding their experiences, insights, and stories to persuade or influence them to enroll in that university but then, student will still decide their own preference and own career.

This was followed by recommendation by parents and relatives. The desire of every parent of a happy and established life for their children gives them the motivation to choose a better career path for their children. Choosing a better career takes on a serious tone, especially that gives them the motivation to choose a better career path for their children. The desire of every parent of a happy and established life for their children.

| Table 7. Correlation. |
|-----------------------|
| Value | Significance |
| Pearson’s R | 0.983 | 0.001 |
| Kendall’s Tau | 0.883 | 0.001 |

their degree. A student’s retention and road to success is a critical matter in terms of federal levels, policy circles, and with employers included, at least on the higher levels it will come to be important. College or university transitions and successes are mainly focused on the studies and interventions aimed over at an individual student’s academic completion (Mirela and Carpente, 2017). Many undergraduates along with half the amount of first-time freshmen are enrolled in at least 1000 or more colleges or universities which offers an acceptable comprehensive as well as flexible curriculum (Paris, 2019). This still gives the students a choice to choose their paths to get a successful academic life at the higher levels.

4.1. Contributions

This is the first and complete study that breaks down the understandings inclination in choosing a college and university school during the COVID-19 pandemic. From the results, students would tend to choose a school with a free tuition fee, strong academic reputation with a close distance to their home due to the pandemic. The result of this study can assist incoming college students to assess their criteria in choosing a school during the pandemic. By having a combination of factors in this matter, students will then make informed decision and focus in universities that meet their needs. Additionally, because students were found to value tuition fees and academic reputation, the school would be able to take note what factors are important in attracting students.

4.2. Practical implications

Based on the findings of this study, tuition fees and employability were the two most important attributes influencing Filipino students' preferences in choosing a university during the pandemic. This result implies that Filipino students preferred low-cost tuition to free of charge universities and colleges after the Philippine Commissions on higher education has announced a free tuition law that covers 111 state universities and colleges (Philippines, 2017; Official Gazette, 2017) including top universities in the Philippines (Fox et al., 2001) and after the pandemic took a toll on the jobs of almost 4.5 million Filipinos (Saavedra et al., 2016). Employability should also be considered since employers will anticipate it as being important for their organization's future effective functioning (Star, 2017). Taking all the findings into consideration, the researchers suggest for a university to create promotions and to consider students' preferences; and it must score well on the most important attributes (Souart and Turner, 2002).

4.3. Limitation and future research

The investigation's huge commitments should be found with regard to certain constraints. The assortment of information and inclination estimation was done through an online review during the COVID-19 pandemic since there is an increasing amount of communicative activity that takes place through this new medium (Fox et al., 2001). This brought about a restricted circulation of respondents, zeroing in on the understudy who graduated during the pandemic. The study did not cover high school leavers who choose private and other higher education institutions, to ensure the consistency and balance of the information. This means that the information gathered, and the conclusions reached may require further testing in private institutions. Moreover, the researchers just centered around the preference of Filipino understudies choosing college schools. Future researchers should accumulate more information about choosing a school in other levels of education in the Philippines, and even other countries during the COVID-19 pandemic.

5. Conclusion

The university choice is a complex, profoundly elaborate choice interaction (Zaichkowsky, 1985; Jen and Hoogeveen, 2021). In line with the current serious epidemic situation, dread, stress, tension, and other
negative feelings are bound to show up in the abrupt, perilous, and unsure circumstances. This study incorporated the Conjoint Analysis Approach (Meixner and Katt, 2020; Ong et al., 2021a; Phan et al., 2020) utilizing an Orthogonal Design in deciding an undergrad student's inclination in choosing a college with the given certain attributes. A sum of 518 senior high school and undergraduates deliberately took an interest in the online study that comprised of 16 Combinations of attributes considered in this study. Various attributes, for example, the tuition fee, distance or location, employability, academic reputation, recommended by friends and peers, recommended by family or relatives, and the availability to transfer were assessed.

The Conjoint Analysis uncovered that tuition fee was the most considered attribute influencing undergrad student's inclination. This is because free tuition lifts the financial burdens brought by higher education institutions to lower-income families and allow students to freely pursue their career goals. This was followed by employability, recommendation by friends and peers, distance or location, academic reputation, recommendation by family or relatives, and lastly by availability to transfer which is determined as the least considered attribute by the consumers. The outcomes can help academicians (Aljedaani et al., 2021; Peimani and Kamalipour, 2021), college chairmen, and enrollment specialists tweak their advertising procedures by giving significant data to the chief gatherings engaged in settling on college decision choices (Kusumawati, 2011).

Declarations

Author contribution statement

Zachariah John A. Belmonte; Yogi Tri Prasetyo; Ardvin Kester S. Ong: Conceived and designed the experiments; Performed the experiments; Analyzed and interpreted the data; Contributed reagents, materials, analysis tools or data; Wrote the paper.

Thanatorn Chuenyindee; Nattakit Yuduang; Poonyawat Kusonwat-tana; Reny Nadilfatim; Satria Fadil Persada; Thapanat Buaphiban: Analyzed and interpreted the data; Wrote the paper.

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Data availability statement

Data will be made available on request.

Declaration of interest’s statement

The authors declare no conflict of interest.

Additional information

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