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# An interactive decision-making model of international postgraduate student course choice

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#### ABSTRACT

This paper explores the decision-making process of international non-EU postgraduates when choosing a qualification from a UK business school and proposes a new model which reflects the iterative, cyclical and continuous nature of the process. The degree of rigour and rationality employed in decision-making was often limited and influenced by culture and the composition of the decision-making unit (DMU). A Decision Maker Typology is proposed which will support segmentation strategies. Postgraduates continuously searched for information and relied on word of mouth information from students, parents, agents and academic staff. Online sources (websites, search engines and reviews) were perceived uncritically to be trustworthy sources. Data on reputation, rankings and friendship groups helped form choice sets. Forty-two qualitative interviews were conducted with international postgraduates from one Post-92 University. The need to meet the information requirements of all DMU members and stimulate information exchange to create a virtuous circle of communication was identified.

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#### **KEYWORDS**

Postgraduate; consumer decision-making; decisionmaking unit; information sources: choice factors: international student

# Introduction

The global market for international postgraduate students is becoming increasingly competitive as more Higher Education Institutions (HEIs) offer Masters level programmes to increase revenues. In 2020, 213,050 international non-EU postgraduates studied in UK HEIs which represented 33% of the postgraduate student population (HESA, 2021). The majority of them were studying taught qualifications in business and administrative studies (Chapman, 2019). International students generated £25.9 billion through on and off-campus spending by themselves and their visitors in 2019 (Universities, 2021). The UK Government and HEIs want to stop the declining trend in the market share of international students and have ambitious plans to increase their numbers to 600,000 students in the UK by 2030 to gain revenues of £35 billion helped by the new two-year poststudy work visa (HM Government, 2021).

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Little previous research in Higher Education has focused on international non-EU postgraduate students despite their complex decision-making process, distinct information needs and significance as a group to the market. Much of the previous research has used outdated linear decision-making models and has not recognised the importance of members of the DMU when choices are made between alternative countries, cities, universities and programmes (Branco Oliveira & Soares, 2016; Brown et al., 2009; Donaldson & McNicholas, 2004; Kotler & Keller, 1985; Moogan & Baron, 1999; Peralt-Rillo & Ribes-Giner, 2013; Vrontis et al., 2007). This qualitative study fulfils the need for up to date research that investigates individual postgraduates' decision journeys and reflects changes in the use and perceived credibility of information sources in this digital age.

This paper aims to explore the decision-making cycle of international non-EU postgraduate students as they choose to study a UK business qualification and the role of other members in the decision-making unit (DMU). This study will help HEIs to support these students and DMU members and tailor their segmentation and targeting strategies to raise awareness of the institution and increase applications. This work addresses the following timely research questions:

- (1) What is the nature of international postgraduates' decision-making process?
- (2) What sources of information and choice factors are evaluated?
- (3) What are the factors that impact on the rationality and rigour of the decision-making process?
- (4) What are the roles and information requirements of the members of the decisionmaking unit?

This paper reviews the literature, presents the methodology and findings and proposes a new Iterative Decision-making Cycle model and a Typology of Decision Makers which can be used to segment prospective postgraduates.

#### Literature review

The review of the literature focuses on the nature of the student decision-making process and factors impacting on it and the DMU.

#### Students' decision-making process

Student decision-making was defined by Maringe (2006, p. 468) as 'a problem-solving process undertaken by applicants in the process of making choices'. A prospective international postgraduate student needed to make six decisions before studying at an overseas HEI; whether to study a postgraduate qualification, whether to study abroad, which country, institution and city to study in and which programme to choose (Pimpa, 2003a).

Postgraduate programmes, as an expensive service in terms of money and time, bought infrequently and involving intense and continuous contact between the postgraduate and the HEI, were classified as high involvement purchases (Kiley & Austin, 2014; Nicholls et al., 1995). As there were significant risks associated, postgraduates' buying behaviour was classified as complex (Maringe & Carter, 2007). Theoretically high involvement, high-risk purchases involved extended decision-making processes and a rational approach whereby prospective postgraduates spent time at each stage of the process and cognitively processed the information gathered to reach an informed decision (Dibb et al., 2012). There was also rigour in the process as potential postgraduates carefully and thoroughly performed an extensive search for information and evaluated a number of alternatives by weighing up a variety of choice factors (Solomon et al., 2016).

In practice, researchers have found that the student decision-making process might not be extensive or rational (Hemsley-Brown & Oplatka, 2015). The current paper explores the rationality and rigour of the decision-making process by investigating the depth and breadth of the process.

The breadth of the decision-making process was assessed in this paper by exploring the size of prospective postgraduates' choice set of universities that were considered and applied to, the number of sources of information processed and the variety of choice factors used. Towers and Towers (2020) found that home and international postgraduates applied to between one and twenty universities with the average being three or four institutions. Choice sets were either wide and narrowed down or remained narrow without expansion.

The author investigated the depth of the process on the basis of the length of time it took for postgraduates to progress through each stage. The overall length of the process had varied between three months (Moogan & Baron, 2003), one year (Mellors-Bourne et al., 2014) and four years (Towers & Towers, 2020).

The sequence of decisions was also evaluated in this study. In Manns and Swift's (2016) research prospective, Chinese postgraduates decided firstly on the country to study in followed by the programme, then the university and finally the city. Industry research found that for the most part international students chose the subject or programme, followed by the country and lastly the university to study at (QS, 2019).

Models designed to explain the decision-making process of students as they chose where to study their university qualification started to emerge in the early 1980s. Chapman (1986) was one of the first to look at buyer behaviour theory in relation to students and parents choosing an educational institution or programme. Table 1 shows the most widely recognised model of the decision-making process (DMP) (Kotler & Keller, 2016; Schiffman & Kanuk, 2012) linked to other models of the consumer and students' decision-making and choice processes. With the exception of Donaldson and McNicholas (2004) and Peralt-Rillo and Ribes-Giner (2013), the focus of the models was undergraduate and domestic students rather than international postgraduates.

The models in Table 1 assumed that students moved sequentially through the linear decision-making stages in a rational manner; recognising a need for postgraduate study, searching for information, evaluating alternatives, purchasing a qualification and then evaluating the purchase.

Some scholars have argued that older sequential, linear models of decision-making did not reflect the behaviour of individuals today, especially the Millennial generation brought up in the digital era, and that the consumer decision journey was continuous and cyclical (Court et al., 2009; Hudson & Hudson, 2013; Noble, 2010). Wolny and Charoensuksai (2014) looked at three shopper journeys which were more circular than linear and emotionally based. Lemon and Verhoef (2016) considered consumer touchpoints at each stage of their circular model.

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| Author                                  | Group                       | Need<br>recognition     | Information<br>search                         | Evaluation of<br>alternatives<br>selection    | Purchase                 | Post-purchase<br>evaluation                     |
|---|-----------------------------|-------------------------|---|---|--------------------------|---|
| Consumer deci                           | sion-makina                 |                         |   |   |                          |   |
| Kotler &<br>Keller, 2016                | Consumer                    | Problem<br>recognition  | Information search                            | Evaluation of<br>alternatives                 | Purchase decision        | Post-purchase behaviour                         |
| Schiffman &<br>Kanuk,<br>2012           | Consumer                    | Need recognition        | Pre purchase<br>search                        | Evaluation of<br>alternatives                 | Purchase                 | Post-purchase<br>behaviour                      |
| Blackwell<br>et al., 2001               | Consumer                    | Need<br>recognition     | Search  | Pre purchase<br>evaluation<br>of services     | Purchase Consumption     | Post<br>consumption<br>evaluation<br>divestment |
| Student choice                          |                             |                         |   |   |                          |   |
| Callender &<br>Jackson,<br>1986         | Undergrad                   | Pre-search<br>behaviour | Search<br>behaviour                           | Application<br>decision<br>choice<br>decision | Matriculation decision   |   |
| Hanson &<br>Litten, 1982                | Undergrad                   | College<br>aspirations  | Search<br>process<br>gathering<br>information | Sending<br>applications                       | Enrolling                |   |
| Jackson, 1982                           | Undergrad                   | Preference              |   | Exclusion                                     |                          | Evaluation                                      |
| Hossler &<br>Gallagher,<br>1987         | Undergrad                   | Predisposition          | Search  | Choice  |                          |   |
| Maringe,<br>2006                        | Potential<br>undergrad      | Pre-search<br>behaviour | Search<br>behaviour                           | Application<br>choice<br>decision             | Registration             |   |
| Maringe &<br>Carter, 2007               | Postgrad<br>undergrad       | Pre-search              | Search  | Application                                   | Choice making            | Post choice<br>decision                         |
| Sojkin et al.,<br>2012                  | Undergrad                   | Predisposition          |   | Choice  |                          | Evaluation                                      |
| Student decisio                         | <i>n-making</i><br>Students | Problem                 | Information                                   | Evaluation of                                 | Purchase                 | Deet wurdeese                                   |
| Kotler &<br>Keller, 1985                | Students                    | recognition             | search  | alternatives                                  | Purchase                 | Post-purchase<br>evaluation                     |
| Moogan &<br>Baron, 1999                 | Undergrad                   | Need<br>recognition     | Information<br>search                         | Evaluation of<br>alternatives                 | Purchase                 | Post-purchase<br>evaluation                     |
| Donaldson &<br>McNicholas,<br>2004      | Postgrad                    | Need recognition        | Information<br>search                         | Evaluation of<br>alternatives                 | Purchase                 | Post-purchase evaluation                        |
| Vrontis et al.,<br>2007                 | Students                    | Need<br>recognition     | Information<br>Search                         | Alternatives<br>evaluation                    | Purchase and consumption | Post<br>consumption<br>evaluation               |
| Brown et al.,<br>2009                   | Undergrad                   | Need<br>recognition     | Information<br>search                         | Evaluation of<br>alternatives                 | Purchase                 | Post-purchase evaluation                        |
| Peralt-Rillo &<br>Ribes-Giner,<br>2013  | Postgrad                    | Need recognition        | Search<br>behaviour                           | Evaluation of alternatives                    | Choice and purchase      | Post-purchase<br>behaviour                      |
| Branco<br>Oliveira &<br>Soares,<br>2016 | International<br>undergrad  | Need<br>recognition     | Information<br>search                         | Evaluation of<br>alternatives                 | Purchase and consumption | Post-purchase<br>evaluation                     |

| Table | <ol> <li>Consumer</li> </ol> | and | student | decision-making | and | choice mo | dels. |
|-------|------------------------------|-----|---------|-----------------|-----|-----------|-------|
|       |                              |     |         |                 |     |           |       |

Models were also developed that reflected the iterative nature of the decision-making process as consumers moved forwards and backwards without a planned or rational approach, made a number of decisions at the same time and revisited previous decisions (Hudson & Hudson, 2013).

Circular, iterative decision-making models to represent the postgraduate's decisionmaking process were devised by industry specialists but these did not refer to information search or represent the complexities of today's student-consumer decision-journey (HEFCE, 2014; Mellors-Bourne et al., 2014). Towers and Towers' (2020) circular postgraduate decision-making framework did however include information search as a separate stage and pre-search behaviour as impacting on the framework.

In the linear decision-making models, information search was considered to be a distinct, second stage when prospective postgraduates looked for information in order to decide on countries, cities, universities and programmes to choose. Some scholars have acknowledged that the search for information took place within other stages, but not throughout the process (Branco Oliveira & Soares, 2016; Court et al., 2009; Peralt-Rillo & Ribes-Giner, 2013). Appendix 1 shows the possible sources of information that prospective students could use when making their decisions based on mainly undergraduate studies. Only Moogan (2020) and Manns and Swift (2016) have focused specifically on international postgraduate students who made the decision to study in the UK.

In order to gain an in-depth insight into the affective, cognitive and physical dimensions of information search in this study, the author used Kuhlthau's (1993) Information Search Process model in the research. Kuhlthau's model was chosen as it is highly regarded in many areas of information behaviour and recognises some of the complexities of postgraduates' high-risk decision making (Wilson, 2004).

In the evaluation of alternatives stage of the linear models, postgraduates had an evoked set of university brands that were recommended, or that they were aware of, which they cut down to a shortlist or choice set of options to be evaluated (Schiffman & Kanuk, 2012). Postgraduates would decide on the factors of importance as listed in Appendix 2 and then weigh up the advantages and disadvantages of each university on the shortlist before purchasing a qualification (Solomon et al., 2016).

Once the prospective postgraduate had purchased a degree, they entered the postpurchase stage of the decision-making process and evaluated the educational service they had purchased. This led to a level of satisfaction or dissatisfaction (Solomon et al., 2013). This stage was considered to last from a few days (Maringe, 2006) to the first few weeks of attending a university (Nemar & Vrontis, 2016).

In seeking to develop a model that integrates both decision-making and information behaviour, the current research is contributing to evolving theory in both disciplines.

# Factors impacting on the decision-making process

The factors that impacted on international students' decision-making process are numerous as shown in Table 2.

Previous studies shown in Table 2 have focused on undergraduate students except for Towers and Towers' (2020) study of a mix of postgraduates from the UK and overseas. It has been acknowledged that the decision-making process of postgraduates, especially those who were international or working professionals, was impacted by alternative factors when compared to undergraduate and domestic students (Mellors-Bourne et al., 2014).

Culture was identified as influencing decision-making (Kotler & Keller, 2016). As participants in this study came from collectivistic cultures, as defined by Hofstede (2001), such as Indonesia, Ghana, Bangladesh, China, Thailand, Vietnam, Kenya and Malaysia, there was

| Factors                                | Elements of factor   |
|--|--|
| Personal attributes                    | Class rank, academic ability/aptitude, academic performance/achievement, self-image,<br>personal values, benefits sought, motivations, attitudes, personality, knowledge,<br>lifestyle/social context, educational aspirations, level of involvement |
| Student characteristics                | Gender, age, socio-economic status, income/resources, ethnicity, religion, dependents,<br>university for undergraduate study, date of graduation from undergraduate study, role<br>in DMU, ethnocentrism, time available to search                   |
| Parent characteristics                 | Parent's education/university attended, family culture/background, parent's personalities,<br>parental influence on where to find information, parental involvement in the choice<br>process, parental finance                                       |
| Public policy                          | Aid (amount and eligibility)   |
| Environment                            | Occupational structure, economic conditions, cultural conditions, technology   |
| University characteristics             | Price/cost (financial aid), size, programme(s) availability, ambience, control (public/<br>private), location, reputation, rankings  |
| University actions                     | Recruitment activities, academic/admissions policies, admittance, aid granted (amount, package), written information, digital information, campus visit, admission/recruiting  |
| Influences/Media used                  | Parents, counsellors/careers advisers, peers/friends, publications, university staff, students,<br>digital and social media, other media   |
| Previous university<br>characteristics | Social composition, quality, curriculum, programmes, size, links to other universities   |

Table 2. Factors impacting on international students' decision-making process.

Source Author's Analysis 2020 based on Blackwell et al., 2001; Vrontis et al., 2007; Cremonini et al., 2008; Towers & Towers, 2020.

the opportunity to explore the influence of collectivist cultural norms on decisions. Individuals from collectivist cultures have been described as committed to building strong relationships with a group and receiving loyalty from them in return (Hofstede Insights, 2021). Decisions, such as the decision to go to university, were often made collectively with the aim of helping the whole family rather than the individual. Prospective students, therefore, relied more on word of mouth (WOM) advice from others when choosing a university (Wilkins & Huisman, 2011).

# **Decision-making unit**

In this study, the DMU or buying centre comprised those individuals who were involved in the purchase of the postgraduate qualification (Blythe, 2013). Webster and Wind (1972) classified organisational decision-maker roles and these are related to an international student purchasing a postgraduate qualification in Table 3.

Zhu and Reeves (2019, p. 1007) researched the decision to study a postgraduate qualification overseas amongst Chinese students and found that their parents influenced their decisions as they were making a 'significant financial sacrifice'. Gatfield and Chen's (2006) study of Taiwanese postgraduates found their decisions might be influenced by WOM communication from friends and family. Moogan (2020) referred to friends, family and agents as information sources and highlighted the role of personal recommendations from parents and partners when international postgraduates decided to study at a UK university.

There are gaps in the literature concerning the nature of international postgraduates' decision-making process, the factors impacting on it including cultural norms, the information sources and choice factors evaluated, the composition of the DMU and the DMU's information requirements, which are explored in this study (Miles, 2017).

#### Methodology

The research design was built on the results of a quantitative scoping study which was used as an exploratory framework to underpin design of the qualitative data collection instrument (Malhotra, 2020). The results presented draw on data from 42 qualitative interviews underpinned by an interpretivist philosophy (Creswell, 2018). These interviews were undertaken to gain an in-depth understanding of postgraduates' unique decision-making processes and build a new conceptual model (Silverman, 2020). International non-EU postgraduates from 15 countries, studying seven different business qualifications at a large Post-92 University in England, were interviewed on arrival and throughout the academic year up to graduation.

An experience-centred narrative interviewing style was used which encouraged the postgraduates to more openly discuss their experiences as they made the decision to study at the university (Bold, 2011). It also allowed the author to understand the chronological connections, sequencing and interpretation of decisions made and the factors impacting on their decisions (Andrews et al., 2008). A reflexive approach was adopted as the author gathered detailed information from participants while considering the interaction between herself as an academic and postgraduates as interviewees (Alvesson & Sköldberg, 2017).

Semi-structured interviews were carried out as this gave the author the flexibility to ask the open-ended questions in the order that she deemed fit to encourage the participants' narrative to flow freely, and to probe where appropriate (McIntosh & Morse, 2015). A pilot study of three interviews was used to test the interview guides. The interviews took place in the university meeting rooms and lasted from 25 min to 1 h. Participants agreed to the interviews being recorded and 20 h of interviews were transcribed and uploaded into NVivo version 12 software. Interviews were carried out from September 2018 to July 2019 until saturation occurred and there were no themes emerging (Glaser & Strauss, 1967). In order to ensure that the sample reflected the cohort of international non-EU postgraduates, non-probability purposive and volunteer sampling techniques were utilised. The author briefed classes of postgraduates on the research and the majority of participants volunteered to take part by signing a sheet (Saunders et al., 2016). The author then undertook purposive sampling to select participants who met certain criteria in terms of gender, programme studied and country of origin. These students were contacted by email and asked if they were willing to take part in the study (Easterby-Smith et al., 2015).

| Roles in decision-making unit | Description of role related to the purchase of a postgraduate qualification   |
|-------------------------------|---|
| Initiator                     | Those members who first recognise the problem or opportunity to obtain a postgraduate<br>qualification  |
| User                          | Those members who enrol in the university to study a postgraduate qualification   |
| Buyer                         | Those members who pay for the cost of the postgraduate gualification  |
| Influencer                    | Those members who influence the decision process directly or indirectly by providing<br>information and criteria for evaluating alternative postgraduate qualifications |
| Decider                       | Those members with authority to choose among alternative buying decisions   |
| Gatekeeper                    | Those members who control the flow of information into the DMU  |

Table 3. DMU roles for postgraduate qualification purchase.

Source Author's Analysis 2020 based on Webster & Wind, 1972, p. 17 and Blythe, 2006.

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Both Thematic and Interpretative Phenomenological Analysis (IPA) were undertaken. Thematic analysis highlighted patterns of meaning across the entire data set which enabled the elicitation of key themes which were common to the participants (Braun & Clarke, 2006). An IPA approach allowed the exploration of each participant's experiences and built a deeper understanding of how different perspectives and culture influenced them (Biggerstaff & Thompson, 2008).

# **Results and discussion**

This section reports the qualitative findings from 42 interviews with 39 international non-EU postgraduates pertaining to the decision-making and information searching processes, decision-maker typology, factors impacting on the DMP and the DMU information requirements.

There were 18 male and 21 female participants aged from 22 to 39 years with 25 from Thailand, Vietnam, Cambodia, Malaysia and Indonesia, three from Bangladesh and two from China and the USA. One postgraduate in each case came from India, Mauritius, Kenya, Ghana, Russia, Brazil and Syria. Sixty-nine per cent had studied previously in their home countries and 31% had studied overseas.

#### **Decision-making process**

When deciding to study at an overseas university, prospective international postgraduate students went through the need recognition, evaluation of alternatives and purchase stages of the decision-making process at varying speeds and levels of intensity.

The depth of the decision-making process was assessed by reference to the time period between need recognition and enrolment at university, ranging from two months to six years. The breadth of the decision-making process was measured by the number of UK universities that were evaluated by research participants in their choice sets, between one and 50 universities. Participants made an application to between one and nine universities with 16 students applying to one university and 14 applying to more than two universities.

Participants who did not have any knowledge of UK universities or WOM recommendations tended to have larger choice sets and evaluate more universities. Compared to previous research the time taken to make the decision was longer than typically found previously and there were a greater number of universities evaluated and applied to (Moogan & Baron, 2003; Towers & Towers, 2020).

The sequence of decisions for international postgraduates based on their experience and awareness of the university had not been previously explored. Participants with no prior experience or connection to the university decided on a country to study in, followed by the programme, then the university that best delivered that programme and finally the city, which agrees with Manns and Swift's (2016) study. Those participants who received a list of universities from agents would research universities and programmes simultaneously and then look at the cities before making their final choice. For participants who had prior experience of studying at partner universities, the city that the university was located in often determined their choice: P11: I know from the [Thai University 1] they have the connection with [the University] and I searched about [the city] and I think it is a very nice city. That's why I choose [the University].

#### Information search process

In this study, participants carried out information search continuously during the decision-making process, rather than being a distinct stage as previously identified (see Table 1). It was conducted in an iterative manner. Participants moved backwards and forwards through the information search process stages in Kuhlthau's (1993) Information Search Process model; initiation, selection, exploration, formulation, collection and presentation, to revisit earlier sources.

The main motivations for participants to study a postgraduate qualification were to improve career prospects (n29), gain or update skills to become more employable (n5), enhance earnings (n5) or progress within a company (n5) as identified in the Postgraduate Taught Experience Survey (PTES) (Mellors-Bourne et al., 2016; Neves & Leman, 2019). Participants were also motivated to undertake postgraduate study to improve their English language capability (n3), gain cultural awareness and obtain the skills and knowledge required to return to their home countries and run their family business (n12) or set up their own business (n7). Entrepreneurial motivations were not previously identified in the literature.

The information sources used varied according to the decision-making process stages as shown in Table 4.

Parents, students, agents, friends and staff at partner institutions were used by participants as the most influential sources of information when choosing postgraduate study and specific universities (Manns & Swift, 2016). Such WOM sources were perceived to be more credible, impartial and less biased and, therefore, trusted by participants (Maringe & Carter, 2007; Moogan, 2020).

P24: But my friends said [the University] is for me, it's suitable for me and so that is why I come here.

University and ranking websites, Google searches and online reviews were frequently used by participants when creating long lists and shortlists of universities, making choices and in the post-purchase stage which agrees with previous studies (Moogan, 2020; Towers & Towers, 2020). Online sources were perceived to have credibility regardless of their origins or authority.

P39: ... I really like what it said on the website so I decided to choose [the University] and apply.

Contrary to the literature, social media and email were not important information sources (Hobsons, 2017; Rekhter & Hossler, 2019; Royo-Vela & Hünermund, 2016). Offline sources such as the prospectus, fairs, and visits were rarely used (Renfrew et al., 2010). Participants progressed through to application before they contacted a university representative to seek advice and many made their final decision without ever contacting the university by relying on online and WOM sources of information. Participants felt uncertain during and after the application process prior to attending the university and would have welcomed university communications at this time.

| Decision-making process<br>stages   | Information sources (number of mentions)   |  |  |  |  |
|---|--|--|--|--|--|
| Need Recognition  | WOM sources: Parent, sibling, other family member, partner staff, students, friends,<br>lecturer, agent, employer, members of the local community<br>Online and Offline sources: Job advert, job pages, educational fairs in home country  |  |  |  |  |
| Evaluation of Alternatives<br>Purchase<br>Country choice<br>City choice<br>Programme and university<br>choice | <ul> <li>WOM sources: Parents (30), agents (21), current or previous students that studied at the university (21), friends in home country (11), friends study elsewhere in UK (9), academic staff at partner institutions (6), staff of the host university (5), other family members (4), employers (2), siblings (2)</li> <li>Online sources: Website of the university (27), rankings websites (19), university websites (18), Google searches (13), online reviews (12), Facebook (6), city websites (4), Instagram (3), YouTube (2), email (2), Twitter (1), LinkedIn (1)</li> <li>Offline sources: Educational fairs in home country (3), prospectus (2), visit to the</li> </ul> |  |  |  |  |
| <i>Post-purchase</i><br>Pre-arrival<br>At university  | university (2), a printed booklet (1)<br><i>WOM sources</i> : University hubs, academic staff, non-academic staff, current students,<br>societies, friendship groups, study groups, student ambassadors, partner university<br>staff<br><i>Online sources</i> : University website, university portal, Blackboard, Google searches,<br>email, library  |  |  |  |  |

#### Table 4. Sources of information.

#### Iterative and cyclical decision-making

Participants progressed through the stages of the decision-making process in an iterative manner. During the evaluation of alternatives stage, they made decisions concerning the country, city, university and programme, separately or simultaneously, and then went back and appraised those decisions. Participants would form a shortlist of certain universities from a longer list and then some would add new universities to their shortlist. Similarly, they applied to a number of universities in the purchase stage and then yet still revisited the evaluation of alternatives stage to investigate new universities. Post-purchase participants would return to decisions made in previous stages to reassure themselves that they had made the right decisions.

The decision-making process was cyclical and continuous in nature as participants learnt from their approach to making the high involvement decision which then informed how they would approach subsequent decisions. Those who were satisfied that they had made the right decision based on a rigorous and rational evaluation of alternative options stated that they would repeat the same process again.

Other participants were dissatisfied with the decision they had made and would approach future high involvement decisions differently by evaluating additional alternative options more critically and giving themselves time to make a considered decision:

One participant had already studied a postgraduate qualification and simplified the decision-making process on a subsequent choice of a programme by evaluating nine rather than fifty universities:

P9: I had learned from my first decision with [C University] so I made the decision with [the University] more simply with a smaller number of universities.

#### **Choice factors**

Participants evaluated a number of choice factors when making the decision to study in the UK, in a certain city, university and programme as shown in Table 5.

The reputation and quality of the education system was the most important choice factor when choosing the UK as a study destination:

P21: The UK has one of the finest education systems in the world [...] It was the quality of education that motivated me to want to come here.

Participants also chose the UK for its shorter one-year degree compared to other countries, and the recognition of UK qualifications amongst employers, which increased the likelihood of job-hunting success (Manns & Swift, 2016).

Most previous studies focused on the choice factors of importance when deciding on a university and a city at the same time, whereas Cubillo et al.'s (2006) reported a separate city image stage. The factors of importance when choosing a city were; location close to London, near the coast and tourist destinations; reputation as a peaceful, clean, not crowded, safe city with friendly people; and presence of an ethnic population that could provide support.

When deciding on universities, the modules offered on the programme often became the point of differentiation along with rankings and reputation (Hemsley-Brown, 2012). The university's reputation amongst employers in the home country and overseas was a key choice factor. Reputation was built up over time through a virtuous circle of communication as alumni from the university obtained jobs, communicated the benefits of studying at the institution to potential postgraduates who after studying were then recruited by the alumni. These postgraduates then recommended the university to others and the virtuous circle of communication continued which increasingly benefited the university, postgraduates and employers.

When choosing a university this study highlighted the importance to postgraduates, especially those from collectivist cultures, of a community of students from their home country from which to obtain support and friendship groups. Those participants who had studied the university's qualifications in their home countries or the UK were more likely to choose the university for the same reasons.

The ease of the application process and the speed of the offer was an influential choice factor. Participants wanted to minimise the number of applications made and would take a shortcut to purchase when they received the first offer, ignoring other universities in their choice sets.

| Decisions                       | Choice factors (number of mentions)   |
|---------------------------------|---|
| Country choice                  | Reputation and quality of the UK education system (11), duration of study (10), likelihood of employment (6), profile and size of the overseas student population (4), tuition fees (3), English language (3), distance from home country (2), culture (2), visa policy (1), exit and entry regulations (1), weather (1), age profile of postgraduates (1), safety (1)  |
| City choice                     | City environment (13), location (7), safety (5), weather (4), cost of living (4), city size (3), industry profile (1), opportunities to network with creative and business contacts (1), ethnic mix (1)   |
| University and Programme choice | Programme curricula (27), prior study in UK university or at partner (24), ranking (20), tuition fees (18), university's overall reputation (10), entry requirements (8), facilities (8), friendship groups (6), ease of application process (6), location (6) reputation for business and the programme (5), teaching quality (5), employability after graduation (5), January start (3), ease of adaptation to university (3) cost of living (3) financial aid (3) accommodation (3), ethnic mix of student population (2), student lifestyle (2), academic and non-academic staff support (2), learning environment (2), career advice (2), class size (1), staff-student ratio (1), recognised by Government (1), opportunity find job (1), opportunity undertake placement (1), ease of adaptation to university |

Table 5. Choice factors.

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#### Typology of decision-makers

A Typology of Decision Makers was developed which categorised participants based on their level of awareness of the university as new, connected, experienced or local. The extent to which participants performed a rigorous search and evaluation of information and approached the decision-making process in a rational manner was reflected in the categories; systematic, semi systematic, limited or shortcut, as shown in Table 6.

Decision-maker types ranged from 'New Systematic' postgraduates who were the least aware of the University and had the most rational and rigorous approach, through 'Semi systematic' to 'Experienced Limited' postgraduates who had studied the University's programmes and often did not perform a systematic search or spend time contemplating their decision.

There were those postgraduates who were classified as 'Shortcut' because they made the final decision unduly quickly due to a gut feeling or one specific piece of information often from a WOM source.

P34: Actually they are the main reason I come here because I just ask my friend who had just graduated from here "How was it?" and it make me decide to come here.

Overall, there was a lack of rationality and information used when making this potentially high involvement decision. Less than half of the sample (n14) approached the decision with a 'systematic' approach and spent time at each stage. However, six of these participants then took a shortcut to the final decision, based on emotional rather than rational criteria.

P27: I have not know as much information as I wanted to know. But someone said [the University] is good [...] good living, good for studying, so I came.

The remaining participants (n17) had less rigorous and rational 'semi systematic' (n9) or 'limited' (n8) approaches. Within the group of 'New' postgraduates, there were four participants who had taken a 'semi systematic' approach and admitted that their level of informedness was low. Those participants whose approach was 'limited' were either 'Connected' (n4), 'Experienced' (n3) or 'Local' (n1) prospective postgraduates. This group relied more heavily on WOM recommendations:

P33: So they [friends] tell me the information about [the University] and I decided to come here [...] I haven't looked at any others. Just [the University] as I have friends to come with.

'Semi systematic' or 'limited' postgraduates were the most likely to question whether they had made the right decision. They reflected that they would approach high involvement decisions in the future with more rigour and greater rationality.

# Factors impacting on the decision-making process

The degree of rigour and rationality with which participants approached the decisionmaking and information search processes depended on the factors shown in Table 7.

Cultural norms influenced the processes. Those from collectivist cultures, such as Thailand and Vietnam, were more heavily influenced by WOM sources, curtailed their information searches and made their decisions more quickly.

| Decision maker<br>types             | # of<br>types | Level of awareness   | Approach to information search and<br>decision-making processes                     |  |  |
|-------------------------------------|---------------|--|---|--|--|
| New systematic                      | 5             | New – Previously unaware of the University.  | Systematic – Wide range of sources and  |  |  |
| New systematic shortcut             | 4             | No knowledge of current students or alumni.  | types of information gathered and/or rational approach to decision-making           |  |  |
| New semi<br>systematic              | 3             |  |   |  |  |
| New semi<br>systematic<br>shortcut  | 1             |  |   |  |  |
| Connected<br>systematic             | 1             | Connected – Knowledge of current students<br>or alumni from the University. May have | Semi Systematic – Reasonable range of<br>sources and types of information           |  |  |
| Connected<br>systematic<br>shortcut | 2             | studied an unrelated degree at a partner university                                  | gathered and/or reasonably rational approach to decision-making                     |  |  |
| Connected semi<br>systematic        | 3             |  |   |  |  |
| Connected<br>limited                | 4             |  | Limited – Minimal range of sources and<br>types of information gathered and/or less |  |  |
| Experienced<br>systematic           | 1             | Experienced – Studied the University<br>programmes in the UK or at a partner         | rational approach to decision-making  |  |  |
| Experienced semi<br>systematic      | 1             | institution  |   |  |  |
| Experienced<br>limited              | 3             |  |   |  |  |
| Local systematic                    | 1             | Local – Aware due to need to study in the  | Shortcut – Final decision made unduly   |  |  |
| Local semi<br>systematic            | 1             | area near the University   | quickly due to one specific piece of information or a gut feeling                   |  |  |
| Local limited                       | 1             |  |   |  |  |

#### Table 6. Typology of decision maker.

P33: Yes she [friend] decided to come here so I followed her.

An Indian participant had a more fatalistic attitude to making a decision and used emotional rather than rational criteria, taking a shortcut to the final purchase.

P9: I am coming to that university just because of the physicality and the beauty the university had [...] that was the first university I ever saw [...] they accepted me with open arms, so that's all I should want from a university.

Age, gender and work experience were also influential. Older postgraduates, females and those with work experience performed comprehensive information searches and spent more time making the final decision in a rational manner compared to younger postgraduates, males and those who had not been employed.

| DMU member  | Factors previously identified in the literature | Factors from current author's research |
|-------------|---|--|
| Purchaser   | Age   | Cultural norms                         |
|             | Gender  | Work experience                        |
|             | Country of Origin                               | Source of income                       |
|             | Role in DMU                                     | Experience of studying abroad          |
|             | Perceived risk                                  | Experience of travel                   |
|             | Personality                                     |  |
|             | Time  |  |
| Family      | Parental education                              | Siblings' education                    |
| •           |   | Family members' location               |
|             |   | Family role in DMU                     |
| Influencers |   | WOM recommendations                    |

Table 7. Factors impacting on the decision-making and information search processes.

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The composition of the DMU and the background and roles of its members also impacted on the approach to the decision-making process. If the postgraduate made a decision with no or little support from DMU members, their approach was more systematic and rational. The educational and travel experiences of the participants' parents and other family members influenced the degree to which participants needed to search for missing information and the extent to which they were given the freedom to make an emotionally based choice.

The source of finance for the purchase and personality traits linked to adaptability and resilience, impacted on the degree of risk participants perceived in the process of making the decision. Prior experience of the service, of travelling, living or studying abroad, reduced the level of perceived risk. The higher the perceived risk the more rigorous and systematic was the decision-making process and the more informed participants were when making their final decision.

#### Decision-making unit information requirements

Participants were asked to report on information that the DMU members provided to them and the information which DMU members asked them to obtain. From this, the information needs of DMU members were inferred and the composition of the DMU was determined. There were between one and six members of the DMU (average 4.2 members) when participants decided which country, city, university and programme to choose as shown in Table 8.

Parents acted as initiators triggering a need for postgraduate study, deciders who helped participants to choose the final programme to purchase and the buyers who paid for the postgraduate qualification. Parents had a much more significant role in the decision-making process than identified in previous literature regardless of whether or not postgraduates came from collectivist cultures (Zhu & Reeves, 2019). The more significant the parental role the less rigorous and systematic were participants' decision-making processes.

P11: I asked my parents because my parents have known me for so long. They know which one is the best for me.

Friends, who were current students or alumni, played an important role as influencers in the DMU providing information on the 'real experience' and lifestyle when studying at institutions and triggering the need for postgraduate study.

Agents and partner university staff acted as gatekeepers in the DMU. They provided lists of universities to investigate and these lists often formed the complete choice set of universities that were considered.

| DMU role   | Student | Parent | Other family members | Student<br>partner | Agent<br>partner<br>staff | Academic staff<br>previous<br>institution | Friend | Employer | The<br>university<br>staff |
|------------|---------|--------|----------------------|--------------------|---------------------------|---|--------|----------|----------------------------|
| Initiator  | х       | х      | х                    |                    | х                         | х   | Х      | х        |                            |
| User       | х       |        |                      |                    |                           |   |        |          |                            |
| Buyer      | х       | х      |                      | х                  |                           |   |        | х        |                            |
| Influencer |         | х      | х                    | х                  | х                         | х   | Х      | х        | х                          |
| Decider    | х       | х      | х                    | х                  |                           |   |        |          |                            |
| Gatekeeper |         |        |                      |                    | х                         | х   |        |          |                            |

#### Table 8. DMU member roles.

| DMU member                                     | Provide information on   | Type of information   |
|--|--|---|
| Friends and<br>students                        | Ability to cope with the demands of<br>academic study, successfully complete<br>degrees and have a positive university<br>experience | Teaching quality, teaching style, assessments,<br>learning environment, engagement with friends<br>and lecturers, life on campus, in the city and<br>tourist destinations, travel to other places,<br>quality of the contact, helpfulness and<br>friendliness of academic and non-academic staff,<br>employability, city safety, university reputation<br>for business programmes, facilities, technology,<br>modernity, ease of adaptation to UK culture and<br>learning environment, likelihood of joining<br>friendship groups |
| Parents  | Safety and fulfilment of children during and<br>post-degree  | University rankings, employment opportunities,<br>university safety levels, student lifestyle   |
| Agents and staff at<br>partner<br>institutions | Evaluation of universities, making<br>applications, purchasing a degree and<br>preparing for study overseas                          | University's unique selling proposition, facilities,<br>programmes, modernity, employability rating,<br>student satisfaction, fees, payment procedure,<br>application process, accommodation, IELTS test,<br>recognition of the qualification by home country<br>authorities, health checks, weather, working<br>while studying, programme modules, academic<br>study at the University, visa paperwork and<br>interviews   |
| Academic staff in<br>home university           | Choice set and reassurance   | Suitable universities, academic level, ability to cope with study   |

#### Table 9. DMU information provision.

P28: I contacted the agency and I showed them my grades and my experience and all that and then they gave me a list of universities for me to choose from.

They built relationships with participants over time as they got to know their needs and became trusted sources of information on all aspects of the university.

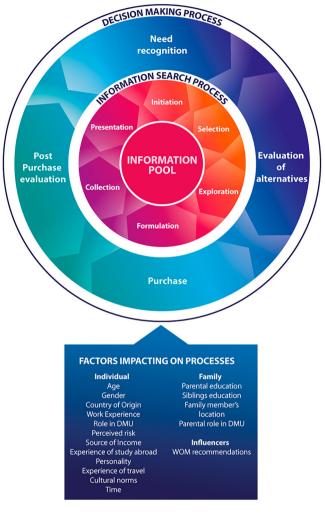
Participants regarded academic staff in the partner or previous institution as a credible and trustworthy source of information and their choice set and final decision as to which university to attend were often based on their advice.

Table 9 shows the types of information which the most important DMU members provided to prospective postgraduates from which their information requirements could be inferred.

# Conclusions

The Iterative Decision-making Cycle Model in Figure 1 is proposed by the author based on theoretical models from marketing scholars (Kotler & Keller, 2016; Solomon et al., 2016) and Kuhlthau on information behaviour. The model represents the postgraduates' decision-making and information search processes from recognition of the need to study a Masters qualification to graduation. Considering the post-purchase evaluation stage as lasting throughout postgraduates' time at university has not been proposed in previous models.

Previous sequential and linear decision-making models assumed that the decisionmaking process for a high involvement product was planned and rational and that students made one decision after another in a sequential fashion. This circular and iterative model reflects the findings from this study that some postgraduates approached the decision-making and information search processes in a systematic and rational manner



# **ITERATIVE DECISION MAKING CYCLE MODEL**

Figure 1. Iterative decision-making cycle model.

while others proceeded with less rigour, took shortcuts and made decisions based on emotional criteria. Postgraduates were found to make multiple decisions at the same time in terms of the country, city, university and programme. They would move backwards and forwards through the stages of the decision-making cycle and revisit previous decisions, choice factors and information sources. The model is cyclical because postgraduates learnt from the decisions they made, and their experiences influenced how they would approach decision-making and information search in the future, in a continuous manner.

Kuhlthau's Information Search Process is depicted in the inner ring as informing all the stages of the decision-making process. The information pool at the centre of the model reflects the interconnectedness of individuals in this digital era. A virtuous cycle of WOM communication was in evidence as postgraduates and other DMU members

gathered information from the pool of information and then contributed to the pool to help other members make their decisions. The pool was especially important to those from collectivist cultures who relied on WOM recommendations. The box at the bottom of the model lists the factors that are pictured as impacting on the degree of rigour and rationality of the decision-making and information search processes.

This study contributes to the body of knowledge in marketing as it helps individuals to understand the cyclical and iterative nature of the decision-making cycle, the breadth and depth of the process and the sequence of decisions made by different groups of postgraduates. Online sources including the university website, rankings, internet search engines and reviews were found to be increasingly important and credible regardless of their origins or authority. Reputation, rankings and the possibility of friendship groups were key choice factors used to decide on universities, especially for those without WOM recommendations.

Despite living in an information-rich world there was a lack of rationality and informedness amongst certain groups of postgraduates when making this high involvement decision and tailored information to 'new', 'experienced' and 'connected' prospective postgraduates, as identified in the Decision Maker Typology in Table 6, should reflect this.

There is a need to communicate pertinent information to parents, friends, students, alumni, agents and academic staff as important target audiences. Parents wanted information regarding the safety and fulfilment of their children during and after their Masters. Friends and students provided information to reassure prospective postgraduates that they would be able to cope with the demands of academic study, successfully complete their degrees and have a positive university experience. Agents and academic staff suggested lists of universities to apply to, reassured potential postgraduates and supported them in their applications. Universities should try and stimulate information exchange amongst DMU members to create a virtuous circle of communication.

Communications to raise awareness of universities could be managed so that the different segments identified in the Typology and amongst the DMU members are targeted by specialists who understand their information needs. Personalised communications messages and media could be prepared and then delivered to specific segments as needed.

This study makes a practical contribution. The model is of practical value to HEI marketers who can gain a competitive advantage due to a greater understanding of the postgraduates' decision-making process and the cultural and other factors that influence the process. The Typology of Decision Makers provides a framework for HEIs segmentation and targeting strategies.

# Limitations and future research

This study focused on international non-EU postgraduates from one institution which might not represent all student views. Future research could include European and UK postgraduates in different universities in the UK studying different courses. International postgraduates from other countries and those studying in overseas universities could also be studied to obtain a broader insight into the impact of different cultures on the decision-making cycle of postgraduates and further test the model and the typology. The role of DMU members as information providers and their information requirements could also be further explored.

# **Disclosure statement**

No potential conflict of interest was reported by the author(s).

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# **Appendix 1. Potential information sources for students**

| Information type   | Information sources  | Information type                                | Information sources   |
|--|--|---|---|
| Word of mouth<br>communication – HEI<br>controlled information | Staff of HEP in home<br>country: academic &<br>support ces       | HEI controlled<br>information sources<br>contd. | Printed directory   |
| sources  | Staff of HEP in host country:<br>academic & support<br>services  |   | A printed document/guide  |
|  | HEP Education agent  |   | Email   |
|  | Student Ambassador   |   | Blog  |
|  | Online chat arranged by<br>HEP                                   |   | Newspaper or magazine<br>advertisement                            |
|  | Chat room arranged by HEP  |   | TV or radio advert  |
| Word of Mouth<br>communication – Non-HEI                       | Teacher/tutor/lecturer at<br>previous HEI                        |   | Billboard   |
| controlled information   | An employer/sponsor  |   | Pay per click/Adwords   |
| sources  | Current/previous students<br>studied at the HEP                  |   | Digital advertisement   |
|  | Current/previous students<br>international experience            |   | Home country govt advisory<br>service/Embassy*                    |
|  | A friend(s)  |   | British Council*  |
|  | Family   |   | Another organisation<br>representing the UK *                     |
|  | Family/friends previous<br>international experience              |   | Host country official<br>postgraduate course<br>website/directory |
|  | Independent Education<br>agent/consultant                        |   | Online university/course<br>comparison website                    |
|  | Informal agencies operating                                      |   | Host Government Education   |
|  | in home country<br>Careers Advisor                               |   | and Learning website<br>Official Websites, e.g. Chinese           |
|  |  |   | Ministry of Education   |
|  | Home country government<br>advisory service/Embassy              |   | Online reviews  |
|  | British Council<br>Another organisation<br>representing the host |   | League tables or rankings<br>Newspaper or magazine<br>article     |
|  | country  |   |   |
|  | Student Chat room/forum  |   | Organic search  |
|  | Professional Association   |   | Branded search  |
| HEI controlled information                                     | Website of the Higher  |   | Student website/blog/student                                      |
| sources  | Education provider   |   | opinion   |
|  | Education host country<br>website                                |   | Blog – influencer   |
|  | Campus open day/evening<br>on-site or visit                      |   | Microblogging, e.g. Weibo   |
|  | Virtual Campus open day/<br>evening                              |   | Professional Association<br>website                               |
|  | Education postgrad<br>exhibition/fair in host                    |   | Social media:Facebook,<br>YouTube, LinkedIn, Twitter              |
|  | country  |   | etc)  |
|  | exhibition/fair in home  |   |   |
|  | Education postgrad   |   | ·   |

Source: Author's Analysis 2020 based on Moogan, 2020; Towers & Towers, 2020; Bonnema & Van der Waldt, 2008; Simões & Soares, 2010; Wiese et al., 2010; Slack et al., 2014; Veloutsou et al., 2005; Goff et al., 2004; Renfrew et al., 2010; Diamond et al., 2015; Teng & Khong, 2015; Kiley & Austin, 2000; Jepsen & Varhegyi, 2011; Gomes & Murphy, 2003; Mellors-Bourne et al., 2014; Hobsons, 2017; Bodycott, 2009; Manns & Swift, 2016; Leng, 2012; Hazelkorn, 2015; Chen, 2008; Chung et al., 2009; Belanger et al., 2014; Yang & Mutum, 2015; Krezel & Krezel, 2017; Briggs & Wilson, 2007; de Jager & du Plooy, 2010; Clark, 2007; Pimpa, 2003b; Hagedorn & Zhang, 2011; Galan et al., 2015; Obermeit, 2012; James-MacEachern & Yun, 2017.

\*Included in more than one category.

# Appendix 2. Factors influencing choice of host country, institution, course and city choice

| Factors influencing host country choice                       | Factors influencing host<br>country choice <i>contd.</i>        | Factors influencing institution, course and city choice <i>contd</i> . |
|---|---|--|
| Knowledge and awareness of host country                       | Other Factors   | Socio-cultural   |
| Easy to obtain information on host                            | Length of course  | Socio-cultural development opportunities                               |
| Knowledge of host country                                     | Job opportunities   | Social life opportunities and diversity in city                        |
| Quality of education/tuition in host                          | Entry qualifications accepted                                   | Developing social skills and problem solving abilities                 |
| Reputation of institutions                                    | Institutions are Government run                                 | Range of international cooperative activities                          |
| Host qualifications recognised                                | Ease and speed of visa<br>process                               | Opportunity to build (academic) networks                               |
| Similar education system                                      | Possibility of applying for<br>immigrant status                 | Support for developing independence                                    |
| High ranking of country's institutions                        |   | Employability  |
| Strong economic and political ties and                        | Factors influencing   | Qualifications recognised by employers/                                |
| cultural links between source country<br>and host country     | institution, course and<br>city choice                          | employment prospects/percentage of<br>graduates obtaining employment   |
| Level of development/advanced<br>economy                      | Reputation and Image  | Placement  |
| Recommendations   | Reputation for quality of<br>institution                        | Employment during study  |
| Parents/relatives   | Reputation for quality of<br>course                             | Suitability for career   |
| Agents  | Reputation for quality and<br>expertise of staff/<br>prominence | Application  |
| Friends/academic staff /other non-family                      | Reputation for being<br>responsive to students'<br>needs        | Ease of admission/application  |
| Cost factors  | Rankings  | Quick response to application  |
| Lower fees  | Well known innovation in research/teaching                      | Cost   |
| Lower travel costs  | Image of institution  | Cost: tuition fee, living expenses                                     |
| Lower cost of living  | Strong advertising and promotion                                | Scholarship availability/financial aid                                 |
| Availability of financial support (e.g.<br>scholarships)      | Course and teaching   | Fear of debt   |
| Free Higher Education/no-tuition policy<br>Environment        | Course content<br>Broad range of courses and<br>programmes      | Location and environment<br>Location                                   |
| Comfortable climate   | Teaching quality  | Proximity to Chinatown   |
| Exciting place to live  | Quality of supervisors  | Convenient transport   |
| Quiet-studious environment conducive<br>to learning           | Accreditation   | Safety   |
| Safe (low crime) environment                                  | Convenient timetable  | Lifestyle/experiential benefits  |
| Quality of life and healthy and clean,<br>natural environment | Opportunity to do academic<br>research                          | Quality learning environment   |
| Social Links and Geographical<br>proximity                    | Entry and timing  | Facilities   |
| Friends/relatives study there                                 | Duration of the programme                                       | Excellent facilities   |
| Friends/relatives live there                                  | Level of entry requirements                                     | Accommodation  |
| Social experience/make international                          | Recognises previous   | Latest IT used   |
| friends<br>Number of International students                   | qualifications<br>Flexible entry throughout                     | Syllabus and programme resources                                       |
|   | year  | (Continued   |

#### Continued.

| Factors influencing host country choice        | Factors influencing host country choice contd.                 | Factors influencing institution, course and city choice <i>contd</i> . |
|--|--|--|
| Established population of overseas students    | Social links and awareness                                     | Library facilities   |
| Similarity of religion                         | Links to institutions known to<br>student                      | Large campus   |
| Low racial discrimination/multicultural        | Large number of<br>international students<br>enrolled          | Superior use of technology   |
| Geographic proximity/close to home             | Strong alumni through which<br>student learnt of institution   | Other factors  |
| Ease/Accessibility of obtaining<br>information | Friends study there  | Football team  |
| Information in home country                    | Opportunities to mix with<br>other students                    | Financially stable   |
| Information from internet                      | Well known to student/<br>Previously studied at<br>institution | Administrative efficiency  |
| Information from agents/educational fairs      | Recommendation from<br>friend, family. faculty,<br>agency      |  |

Source: McMahon, 1992; Joseph & Joseph, 2000; Mazzarol & Soutar, 2002; Binsardi & Ekwulugo, 2003; Imenda et al., 2004; Shanka et al., 2006; Chen, 2007; Maringe & Carter, 2007; Pyvis & Chapman, 2007; Bonnema & Van der Waldt, 2008; Callender & Jackson, 2008; Chen, 2008; Williams & Van Dyke, 2008; Bodycott, 2009; Abubakar et al., 2010; Liu, 2010; Kotler & Fox, 2011; Wilkins & Huisman, 2011; Hemsley-Brown, 2012; Rudd et al., 2012; Foster, 2014; Wu, 2014; Gong & Huybers, 2015; Lee & Sehoole, 2015; Zhou, 2015; Manns & Swift, 2016; Singh, 2016; James-MacEachern & Yun, 2017; Saiti et al., 2017; Souto-Otero & Enders, 2017; Calikoglu, 2018; Nicholls, 2018; Wiers-Jenssen, 2019; Zhu & Reeves, 2019; Moogan, 2020; Towers & Towers, 2020.