Efficacy of Border-Crossing Service-Learning in Empathy and Moral Development: Urban Students in the Rural Developing World

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Abstract

For a service-learning course focusing on poverty, students from a Hong Kong university took a 12-day trip to engage in various poverty alleviation services in Cambodia. This course was border-crossing on five dimensions: (1) urban versus rural, (2) developed versus developing world location, (3) classroom versus practical and experiential, (4) Hong Kong versus Cambodian (cross-cultural), and (5) teachers' paternalism versus students' voice. Students' firsthand observation of service recipients' absolute poverty gave them a deeper understanding of the problem of poverty. Evidence indicates that this service-learning experience led to incremental, rather than striking, empathy building and moral development, and built on cognitive empathy more than affective empathy. However, as an invaluable experience in the formative years of these undergraduates, this border-crossing service-learning trip may pave the way for future subtle or evident changes in their lives through having broadened their horizons and given exposure to another culture socioeconomically, culturally, and nationally.

Keywords: rural service-learning, pedagogy, urban students, empathy, education programme evaluation

in achieving the scholarship.

ducation is often viewed as crucial that vary from place to place. However, in preparing students for adult- service-learning remains generally defined hood. However, Dewey empha- by the following characteristics: (a) coursesized that education by itself is based and/or credit-bearing educational "a process of living" (Ganzert experience that integrates (b) academic et al., 2017, p. xi). Thus, education can be course content with learning objectives; and regarded as important in terms of being a (c) voluntary community services (Brower, living and a worthy experience as well as a 2011; Holton et al., 2017; Le & Raven, 2015). means toward achieving prosperous living Service-learning is a type of experienin the future. Boyer stressed the scholarship tial learning, comprising classroom and of integration in higher education—that community-based learning experiences. is, putting isolated facts into contexts and Service-learning represents an educational perspectives across disciplines (Ganzert et effort to nurture students in what Boyer al., 2017, p. xii). Such a scholarship is im- termed the "scholarship of integration" portant for academics in higher education (Ganzert et al., 2017, p. xii), so that they not only as researchers but also as educators apply what is learned within classrooms to whose aims include engaging students in the real-life community service context, such an endeavor and facilitating students thereby gaining a deep understanding and implanting such an understanding within a reoriented perspective or from a renewed Xing and Ma (2010) pointed out that "ser- angle. The service delivered during the provice-learning" is mainly a term from the cess of service-learning is an experience West, with its understanding and practice and living by itself, fruitful and beneficial

toward students, teachers, service recipi- as rural. The rural landscape is highly diin higher education.

integrating with students' voice in service et al., 2013). design. This research attempts to answer the following research questions:

- How far does border-crossing servicecontext)?
- How far does border-crossing servicelearning facilitate students' empathy and moral development?

Literature Review

learning have centered on a city context, in the service design—essentially with with the targeted service communities the teachers choosing a certain Cambodian being predominantly urban or suburban village as the site for service-learning but (Ganzert et al., 2017; Tullier, 2017). Rural encouraging students' voice in specific or service-learning can be defined as service- concrete service design. This pioneer relearning in rural areas (Holton et al., 2017). search investigates a distinctive course that This definition depends on what we regard simultaneously spans five border-crossing

ents, and society at large, as well as con-verse (Holton et al., 2017), ranging from structive to students' future development. rural areas in the developing world (with Therefore, in service-learning, we can ob- underdeveloped amenities and infrastrucserve the convergence of all three: first, the ture) to those in the developed world, such process of living of students, teachers, and as the United States, which is increasingly service recipients; second, the nurturance connected through the internet and other of scholarship of integration among stu- technologies (Brown & Swanson, 2003, as dents and teachers engaged in the service- cited in Holton et al., 2017). However, we learning undertaking; and third, the prepa- may state that the defining characteristics ration of students for future living. From of "rural" are its reliance on agriculture for this perspective, service-learning can play income, low population density, and lessa constituent part in education, especially developed built environment (Holton et al.,

This study examines a service-learning Service-learning research focusing on a course focusing on poverty, wherein stu- course that comprises all five aforemendents from a Hong Kong university were tioned border-crossing dimensions has not brought to Cambodia on a 12-day trip to been conducted to date. Typically, rural engage in various poverty alleviation ser- service-learning can incorporate the urban vices. This service-learning course is bor- versus rural border-crossing dimension. der-crossing in five dimensions: (1) urban Several studies on rural service-learning versus rural—bringing urban students in with the service delivered within the same Hong Kong to rural Cambodia; (2) developed country, especially in the United States versus developing world areas—taking stu- (without border-crossing in the dimensions dents out of the developed world to the de- of developed vs. developing world areas, veloping world; (3) classroom versus practi- cross-cultural service, and teachers' patercal and experiential—leading students from nalism vs. students' voice), have been perthe theoretical and conceptual discussions formed (for example, Harris, 2004; Holton of poverty in classrooms to real-life situ- et al., 2017; Marken et al., 2011). Other rural ations and working for practical solutions; service-learning research concentrates on (4) Hong Kong versus Cambodian culture— service-learning through providing services cross-cultural expedition into learning the in overseas countries, involving a crossculture of a country remote from students' cultural dimension, often together with the experience; (5) teachers' paternalism versus border-crossing dimension of developed students' voice—with teachers selecting versus developing world areas (for example, Cambodia as the site for service-learning, Brower, 2011; Hawkins & Vialet, 2012; Main

Tullier (2017) pointed out the necessity and constructiveness of the inclusion of students' voice in service-learning. However, learning affect students' understanding service-learning courses seldom signifiof the course content (poverty in this cantly incorporate students' voice in the design of service, presumably because of the arduous logistics and administrative work involved in service planning. Thus, more paternalism in the planning of service-learning is thought to minimize unpredictability. The service-learning course under investigation is unique in that it involves crossing the border of teachers' Most previous research efforts on service- paternalism by allowing students' voice

service-learning course of such a specific others' stand, whereas affective empathy nature in nurturing students' empathy and refers to emotional resonance with others' moral development.

The border-crossing service-learning course under investigation takes poverty as the subject focus, with poverty alleviation as the target of the service efforts. According to Wisor (2012), poverty refers to "a core set of basic human deprivations." Poverty can Moral development refers to "age-related national mean or median income) or abof starvation); objective (in accordance with a set of internationally recognized criteria, such as income less than US\$1 or US\$2 per day) or subjective (involving self-assessment as compared with peers; Walshalsh, 2006). According to such classifications, the rural Cambodian service recipients in this border-crossing service-learning course may be simultaneously regarded as poor in absolute (in the sense of having enough food), relative (to Cambodia), objective (by global standards), and subjective (as reflected by certain service recipients conceiving the students from Hong Kong visiting Empathy is an important dimension in poor) terms and standards.

Studies on service-learning with poverty as the learning focus are available. Several are related to in-country relative poverty. For example, Baggerly (2006) examined service-learning with children affected by poverty within the U.S. multicultural framework. Seider et al. (2011) also focused on changes in the conception of poverty through service-learning in the U.S. context. Other studies on service-learning are related to global poverty, such as Le and Raven (2015), in which U.S. students provided service in Cambodia and Vietnam, involving various border-crossing dimensions.

dimensions and evaluates the efficacy of a refers to accurate perspective taking of feelings (Davidov, 2018). Through training, one can acquire or enhance his or her ability to empathize (Donovan, 2008). The current research aims to evaluate the efficacy of service-learning as a pedagogy for nurturing empathy.

be relative (measured as a fraction of the changes in the thoughts and emotions that guide individuals' ideas of right and solute (which often incorporates the threat wrong and how they and others should act" (Barnett, 2007, p. 587), involving different facets, such as moral cognition, feelings and emotions, motivation, justice orientation, care, behavior, action, and moral judgment (Barnett, 2007; Gibbs, 2003; Steckler & Hamlin, 2016). Moral development can be nurtured and enhanced through educational efforts, thereby providing a rationale behind various moral educational endeavors, particularly within family, schools, and society at large across all cultures, civilizations, and times.

Cambodia with the intention to help the moral development. There is essentially no research on the efficacy of service-learning as a pedagogy for empathy nurturance and moral development, except Leung and Yung (2020). Researchers have examined the influence of service-learning on students' moral development. However, most have confined the definition of "moral development" to cognitive moral reasoning, instead of espousing a holistic definition that comprises moral sensibility, feelings, motivation, intentions, actions, and empathy (Bowdon et al., 2015). For example, Boss (1994) and Gorman et al. (1994) conducted such quantitative studies in the United States. Research efforts on service-learning and moral development that delineate the latter beyond cognitive moral reasoning are This study makes further efforts on service- limited. For example, Zlotkowski (1996) learning related to poverty by examining offered a theoretical discussion of servicea service-learning endeavor with all five learning and ethical behavior but presented border-crossing dimensions in nurturing only limited systematic data collection to empathy, values, and moral development in support the arguments. Strain (2005) restudents. Empathy is defined as the capac- vealed the relationship of service-learning ity to "experience the emotion of another and moral development. Such a relationship person," essentially "seeing the world as is comparatively and holistically defined others see, being non-judgmental, dis- using quotations from students' writing playing understanding of others' feelings and reflections to substantiate his arguas well as conveying such understanding ments. Leung and Yung (2020) adopted a to the target person" (Donovan, 2008, p. comprehensive conception of moral devel-121). Empathy consists of two components, opment in their research on service-learncognitive and affective. Cognitive empathy ing. However, they mainly examined this

tion, and moral behavior. Furthermore, this the summer. research represents a pioneer attempt that adopts such a holistic definition of moral development in examining the effectiveness of service-learning in the nurturance of empathy and moral development in a service-learning endeavor that involves all aforementioned five border-crossing dimensions.

Service-learning that involves crossing a cultural border (such as providing service from one's own within the same country) works. necessitates intercultural sensitivity and facilitates its development. Works addressing intercultural sensitivity include Bennett (1986) and Hammer et al. (2003), which highlight the developmental model of intercultural sensitivity (DMIS). This model suggests a multistage developmental continuum from ethnocentrism to ethnorelativism. Empathy is an essential constituent of cultural sensitivity, which in turn is an important part in moral development.

Social Poverty in Developing Countries (Service-Learning Course)

At the university where this research was performed, each student must take a service-learning course within the 4-year curriculum. A range of service-learning courses are offered every semester. The course Social Poverty in Developing Countries includes an academic and preparatory component in the spring semester and a service field trip to a developing country in the summer. developing countries.

In the particular year under study, 174 students applied for this service-learning course, and 55 of them were selected for interview. Two rounds of interviews (individual and group interviews) were conducted, and 20 students were selected for enrollment. Enrollees included 11 local students and nine nonlocal students, including two from Taiwan, six from Mainland China, Debriefing sessions were held once every 2

pedagogy within an urban context, without and one from South Korea. The selection the border-crossing characteristics of the criteria for course enrollment include the service-learning endeavor that the pres- student's interest in the course, their perent research aims to evaluate. The present sonality and maturity level, background distudy also adopts a comprehensive concept versity, and their commitment to attending of moral development and explores moral the lectures and workshops on weekends in sensitivity, moral guilt, care, moral motiva- the spring semester and making the trip in

Classroom teaching was conducted in the spring semester in Hong Kong on Saturday mornings. The topics included servicelearning, poverty, the human development approach, the situation in Cambodia (with special reference to a village and a public school in rural Cambodia), a forum for reviewing a range of possible service works, group presentation of service proposals, and a deliberation and consolidation session, as overseas or for a cultural group that differs well as three workshops on practical service

> A previsit was initiated by the teaching staff to collect information about the site and people, to liaise with relevant parties, and to solicit views from the potential service recipients. The students were required to consider their preliminary understanding of the needs and wishes of the people when designing suitable service works to be performed on the sites. The students received relevant information from lectures, performed their own research following such lectures, formed groups and engaged in group discussion, and then presented the ideas on their group's service plan in class. After the forum and presentation sessions, the final service plan was collectively decided in a deliberation session. Groups were encouraged to make adjustments or revisions to their service plan after their arrival on the sites.

The service works during the 12-day trip to Cambodia included installing four solarpowered generators in the community The course examines the nature and reality office, primary school, kindergarten, and of social poverty and aims to cultivate an temple (with a well-illustrated user manual intellectual and empathetic understanding written by the students in English and of social poverty, with special reference to translated into Khmer), service works for 10 selected families (including installation of a simple solar lighting system, multiple visits, and interviews as well as customized gifts in response to the needs of the families), participating in the construction of a multifunction building (which was used as a temple, communal hall, and kindergarten), conducting workshops in the primary school, and organizing a farewell party.

or 3 days after the trip to the village on that were conducted in Cantonese dialect, which on service works.

Methodology

This research utilized a mixed-methods approach by using quantitative and qualitative data collection methods that enabled triangulation, with qualitative and quantitative data complementing each other to give a more holistic view of the research topic. The data collection was conducted in strict accordance with research ethics requirements. All research participants were adults. The main quantitative method used was questionnaire. Pre- (at the beginning of the course) and postprogram (after the completion of the course; P-P) questionnaires were administered, targeting the entire student course. We collected 19 valid sets of P-P questionnaires from a total of 20 students in the course, indicating a response rate of approximately 95%. The number of valid cases was small, so nonparametric statistics was used for data analysis. Qualitative sis of the reflective journals (which were unhappy when seeing suffering. written in English). Purposive sampling was adopted for the focus group and interviews with nonlocal students. The research team recruited students with various demonstrated levels of enthusiasm (high, mid, and low level) for service participation in Cambodia as focus group participants and as interviewees. Purposive sampling was also adopted for interviews with staff who engaged in various types of work in the course. For interviews with service recipi-

day. The group presentation was arranged is the mother tongue of most Hong Kong a few days after returning to Hong Kong, residents. Interviews with nonlocal students followed by an individual reflective journal. were conducted in English, supplemented Other pre-service-trip assignments in this by Putonghua/Mandarin. Service recipicourse included a test on the understanding ent interviews were conducted in Khmer, of service-learning and a written proposal the Cambodian language, with the assistance of an interpreter. The focus group and interviews were recorded, translated into English, and transcribed. They were manually analyzed, with emerging themes (related to the nurturance of empathy and moral development, understanding of poverty, and appreciation of service-learning as pedagogy) identified and classified. Analysis along such themes was conducted, with the data being grouped and organized. The same qualitative data analysis process was also utilized for the content analysis of the reflective journals. The qualitative findings are presented in the latter parts of this article, substantiated by extracts from interviews, reflective journals, and the focus group.

This research takes a holistic conception population of the specific service-learning of moral development that involves different dimensions. It measures the students' moral development by a moral development score, which assesses students' consideration of different parties when making decisions, moral guilt, tendency toward moral acts, moral motivation, moral sensitivity, methods included a focus group for local moral obligation, moral self-assessment, (Hong Kong) students, five interviews with care for others, and willingness to help five nonlocal students, two interviews with others. Empathy in this research comprises the staff involved in the course, 11 inter- cognitive empathy and affective empathy, views with service recipients (10 villagers each gauged by an independent score. and one monk teacher in a Cambodian The cognitive empathy score measures temple, all of which were the targets of students' perspective-taking tendency the community service), written English and self-assessed capacity to understand responses to data-collection questions by others' perspective. The affective empathy a teaching staff member from Cambodia score measures whether they share others' involved in the course, and content analy- positive and negative feelings as well as feel

Efficacy of Border-Crossing Service-Learning

Out of the 19 P-P questionnaire respondents, most (63.1%) are Year 1 students, whereas 31.6% and 5.3% are Year 2 and Year 3 students, respectively. Of these respondents, the majority (78.9%) are female, and the rest (21.1%) are male.

ents, we adopted quota sampling, with one Interviews with the service recipients indirepresentative from each service-recipient cated that the most common problem they unit being interviewed. The focus group face is economic difficulty, with certain and the interviews with staff members families even having no income-earning adult to support the household. Thus, their access to food is scarce; they find drinking water expensive (because of the lack of a nearby water well) and regard medicine as unaffordable. The shelter available to them From Table 1, the students generally agreed does not even protect against rain during that the service recipients in Cambodia the wet season. As one villager pointed out were poor, especially when compared with during the interview,

[We are] in lack of economic [means]; [food] for eating is not enough; [the shelter] for living is difficult when it rains, [it becomes] wet. (Cambodian Service Recipient 9, female)

The monk teacher in the Cambodian temple pointed out the lack of facilities in the pagoda during the interview:

Here, we lack electricity [for] lighting . . . young monks are afraid at night and I have to stay here [at night]; [young monks] go home; they [are] afraid [of] the dark. Another [difficult] thing is [about] water. Young monks are juvenile [with juvenile rights which need to be protected]. I do not want them to carry water [which is heavy] and I have to do it myself because we don't have [water] pumps. I dare not ask them to cut the firewood by using saw; so I have to [do it]. We need some tools to do it, but we lack technical [tools and apparatus]. Not only this pagoda [is like this], but any pagoda around here [is] also [like this]. . . . (Cambodian monk teacher, male)

general Hong Kong people (Statement 1.2: Mean = 1.53) and slightly less when compared with people from different countries (Statement 1.3: Mean = 2.84). Therefore, students believed that these service recipients were generally poor, but not the most desperate throughout the globe. In the following quote, a student in the focus group echoes these quantitative findings and vividly compares poverty in Cambodia with that in Hong Kong and demonstrates the deplorable situation in the former (reflecting the ability, on the part of students, to compare the developed world with the developing world after crossing the border between the two worlds in this servicelearning experience).

In Hong Kong, no matter how poor one is, if s/he goes to [Cambodia], s/he will be very rich [when compared with other Cambodians]. [Cambodians] working in factories earn US\$5 per day. In Hong Kong, a meal already costs US\$5. In Hong Kong, no matter how poor you are, certain people are [willing to] help you, [like] those from Social Welfare Department and NGOs. Food banks also exist. We can donate many

Table 1. Students' Evaluation of Poverty Situation in Cambodia and Selfassessment of the Efficacy of their Service-Learning Experience in Facilitating Their Understanding of Poverty

Statement	Mean	Standard deviation	Minimum	Maximum
1.1 The service-learning experience enables me to understand the problem of poverty better.	1.84	0.62	1	3
1.2 The service-recipients are poor when compared to general Hong Kong people.	1.53	0.697	1	3
1.3 The service-recipients are poor when compared to people of different countries in the whole WORLD.	2.84	1.068	1	5

Note. Students were asked to indicate the degree of (dis)agreement with the statement on a seven-point measurement scale, with 1 being strongly agree, 4 being neutral, and 7 being strongly disagree.

things. In Cambodia, no matter how poor they are, because everyone is poor, no one can help them. They simply cannot help because they cannot even help themselves. In Hong Kong, such a situation does not happen. In Hong Kong, people do not starve to death. However, in Cambodia, people can absolutely starve to death. (Participant of focus group with Hong Kong students, female)

Such absolute poverty, without much readily available assistance from the government, NGOs, and fellow citizens, instills an eye-opening experience in the students, who all come from economically advantaged countries or cities, as reflected by the interviewees after crossing the developed world versus the developing world border.

Going into the village, apart from seeing [what I] never saw before, was very shocking . . . I think I have never been to such a poor place. I think we should not use the word "poor," [we] must use "primitive" to describe the place. . . . Although the place is very "primitive," the villagers or the people are really very nice. Regardless if they understand what we say or do, they always smile when they talk to us. (Student D, female, nonlocal student)

I thought I fully understand their situation before we went to [Cambodia]. However, when I saw and actually experienced being there, I was really shocked. We knew the situation [beforehand], but when we actually experienced it, it was still a shock. (Student A, female, nonlocal student)

Such reactions on observing service recipients' "primitive" conditions firsthand enabled students to further understand the problem of poverty after crossing the border of classroom versus real-life/practical experience (Table 1, Statement 1.1: Mean = 1.84), generating deep insights into the issue of poverty. Such quantitative data are further As shown in Table 2, students concluded substantiated by the content analysis of that the service-learning experience (with students' reflective journals.

In the lecture, I learned that poverty means living with basic needs, but it was inside this house that I understood what poverty was like in the first time. Basic needs don't include any of my necessities like cosmetics, stationaries, cups and plates, but mean living with far less than I could imagine. (Reflective Essay 14)

Through interactions with villagers, we developed a sense of responsibility not only to reduce poverty situations but also to think back over the reasons behind social poverty. Are the things we have been taken for granted causing social poverty? Are the ways people solve problems considered as morally right? Although I still don't have a certain answer to theses [sic] questions, the service learning experience did successfully raise my attention to the controversial issues happening in developing countries. (Reflective Essay 12)

The extreme situation faced by the Cambodian service recipients in this multidimensional border-crossing servicelearning engagement stimulated students to reflect further, providing a context and a nurturance ground for the fostering of empathy and moral development.

Yes, [this course] can [help facilitate empathy development]. [It is] because you obtain information from the media and books in the form of others' perspective on [the issue concerned]. This time, we go [to Cambodia], we view from our own perspective, first-hand. I feel that a step forward, [with] a great shocking [experience], can leave [us] a deep impression. . . . The situation is very different. The poor children in Taiwan [whom I gave service to in the past] still have what one should have. [Those in Cambodia] do not have what one should have, thus making me reflect a bit more. (Student A, female, nonlocal student)

various border-crossing pedagogical designs) is highly constructive in facilitating perspective taking (Statement 2.1.2: Mean = 2.11) and empathy nurturance (Statement

Table 2. Students' Self-assessment of the Efficacy of Their Service- Learning Experience in Empathy Nurturance and Moral Development					
Statement	Mean	Standard deviation	Minimum	Maximum	
2.1.1 My service-learning experi- ence facilitates the develop- ment of empathy.	2.00	0.58	1	3	
2.1.2 The service-learning experi- ence enables me to view a situation from others' perspectives better.	2.11	0.66	1	4	
2.2.1 The service-learning experi- ence motivates me to do further community services.	2.11	0.81	1	4	
2.2.2 The service-learning experience motivates me to help those in need.	2.05	0.62	1	3	
2.2.3 The service-learning experience enables me to develop into a morally better person.	2.05	0.71	1	4	
2.2.4 The service-learning experience enables me to be a more caring person.	1.89	0.66	1	3	

Note. Students were asked to indicate the degree of (dis)agreement with the statement on a seven-point measurement scale, with 1 being strongly agree, 4 being neutral, and 7 being strongly disagree.

2.1.1: Mean = 2.00). Such quantitative findings are echoed by qualitative data.

As for communication skills, the most important lesson I learnt is standing on others' shoes to actively have constructive conversations, especially when facing service recipients. There are two reasons behind, the first one is that constructive conversations are benefit [sic] for problems [sic] solving and making improvement, while the second one is thinking about others could show respect to service recipients, which reduces the gap between service recipients and providers and avoids potential or unnecessary conflicts. (Reflective Essay 13)

It can [help me develop empathy]. Whilst communicating with the villagers, [I] need to think of ways to explain what we [plan to] do for them, including installing solar panels. . . . From their level of understanding, [we must] explain the functions [of solar panels], how to use [solar panels] and what good solar panels are for them. Also, when playing with the children [there], although we do not understand their language, we try to stand from the perspectives [of the children] and do things that they will feel happy about. Thus, empathy can increase [after service-learning]. (Student D, female, nonlocal student)

As displayed in Table 2, students indicated that this multidimensional border-crossing service-learning experience helped facilitate moral development on various dimensions, such as future moral acts in the form of community services (Statement 2.2.1: Mean = 2.11), moral motivation in helping those in need (Statement 2.2.2: Mean = 2.05), being a more caring person (Statement 2.2.4: Mean = 1.89), and developing into a morally better person (Statement 2.2.3: Mean = 2.05). In an example illustrating the above quantitative findings, Student A (female, nonlocal student) suggested "service as a life-long endeavour," indicating how far the servicelearning experience can stimulate students to reflect upon their future moral acts. This mentality is reflected in one student's assignment:

To conclude, this service trip is rewarding and influences me a lot in terms of behaviour and thinking. I hope that I am able to learn through serving and become a better person. Moreover, I will dedicate myself to community work in my city and other countries because it is one of my responsibilities to help the needy, and I am able to do great things with great love. Poverty is no longer the most terrible, but instead, is that no one is willing to lend a helping hand to the needy (Teresa et al., 2000). I hope that more and more people can step a small step in doing small but good things, and cultivate a helping heart to better our world, to a world without poverty. (Reflective Essay 1)

A staff interviewee further added value to conditions may be difficult for these stuthe above quantitative findings and concluded that the service-learning experience things, and may take various forms in practice, especially in a cross-cultural context.

The students are required to do service in Cambodia. They must learn to respect others—the basic component in moral development. [It is] easy to say, but implementing this component [in reality] may not be easy to achieve. To determine how to respect local people [in Cambodia], different students may have different understandings. Some students may think to respect the local people, they need to learn their language. Or if learning their language may be difficult,

at least culturally or in the way they interact, they need to learn the way [of the local people]. For example, they will [learn their] way of greeting or their body language. These examples show respect. . . . (Staff Member 2, female)

Empathy building forms an important part of moral development. Table 3 shows that a statistically significant, highly positive correlation exists between the P-P difference in moral development scores and the P-P difference in cognitive empathy scores. By contrast, no significant correlation is found between the P-P difference in moral development and affective empathy scores. This contrast reflects the background and upbringing of the students, who mostly come from nonpoor families and thus may never experience significant hunger and tremendous poverty. These students can undergo perspective taking (and thus cognitive empathy) and stand in the shoes of the service recipients. However, to really feel the service recipients' affective and emotional dents because hunger and desperate poverty are remote from their personal experiences. facilitates students' moral development, How the moral development of the students which starts from showing basic respect is built more on cognitive empathy than on toward others, including simple basic affective empathy is vividly reflected in the following excerpt from the focus group (which may explain the statistical findings).

> For example, you talk about hunger, no food. To us, even if we do not have food, the maximum is skipping only one meal. However, their [Cambodians' hunger] perhaps is two days. We cannot feel their pain vividly. I understand the conception of [hunger], but I cannot experience [thoroughly]. We lack the most vivid "understanding" [of their plight]. We have the general understanding, but being very empathetic and feeling their situation as our own experience, frankly speaking, are

Table 3. Nonparametric Correlations Among P-P Differences in Moral Development, Cognitive Empathy, and Affective Empathy				
	Difference ^a in moral development			
Difference ^a in cognitive empathy	0.693**			
Difference ^a in affective empathy	-0.038			

^a Difference between P−P scores.

^{**} Significant at 0.01 level.

not [possible]. (Participant of focus group with Hong Kong students, female)

The circumstance of cognitively comprehending the difficulties faced by the villagers but being unable to vividly feel, tive findings also.

No, I do not think they [have enough] food. I do not think I can [feel what they are feeling]. When they face us, they are very enthusiastic. . . . We cannot see their difficulties in the background. . . . They make us feel that they like us very much. . . . Our group is responsible for two families. One of the families' situation is really, really bad. Their family is very poor. Their father has a severe disease and cannot work, with high medical expenditure each month. This family told us that they have this situation. . . . (Student A, female, nonlocal student)

As shown in Table 4, the Wilcoxon signed ranks test of the P-P of the general, affective, and cognitive empathy scores as This multidimensional border-crossing of scores is not conclusive. However, the essay illustrates this relationship. subjective self-evaluation (on the part of

students) of the effectiveness of the service-learning experience in moral development and empathy nurturance is highly positive, as reflected in Table 2 (Statements 2.1.1-2.2.4). The students in the focus group highlight that moral development and empathy nurturance are long-term emotionally and affectively, what they feel engagements, rather than being enhanced is further echoed in the interview with a suddenly and drastically by a short, onenonlocal student, explaining the quantita- off service-learning course. Nevertheless, such a "soft" experience in service-learning provides certain inspirations for deep reflections on such issues as how to live one's life and relationships with others within one's society and the world (as reflected in Table 2), leading to a positive subjective self-evaluation of the efficacy of such a service-learning experience in facilitation of empathy nurturance and moral development. However, great significant positive changes in moral development and empathy scores may not occur (as reflected in the comparison of P-P scores). That is, such a service-learning experience leads to incremental, rather than striking, changes in empathy building and moral development. Such changes can be sensed subjectively by the students concerned, instead of being reflected in objective measurements. This finding is also echoed in the conclusion of Leung and Yung (2020).

well as the moral development scores are service-learning experience stimulates the all statistically insignificant, with a p-value students to rethink and reorient their regreater than 0.05. This result reveals that lationship with the service recipients and the objective assessment of the differ- their views on the relationship between the ences (increments) in moral development developed and the developing world. The and empathy building by P-P comparison following excerpt from a student's reflective

Table 4. Wilcoxon Signed Ranks Test of P–P Scores of Students				
Variable	Time	Mean Rank	p-value	
General empathy score ^a	Postprogram < Preprogram	5.50	0.373	
	Postprogram > Preprogram	8.29		
Affective empathy score	Postprogram < Preprogram	6.92	0.480	
	Postprogram > Preprogram	7.94		
G: 41	Postprogram < Preprogram	6.13	0.809	
Cognitive empathy score	Postprogram > Preprogram	4.10		
Moral development score	Postprogram < Preprogram	8.56	0.981	
	Postprogram > Preprogram	9.50		

^a Derived from cognitive empathy score + affective empathy score. Note. A low score indicates a comparatively high achievement in that aspect. Driven by bravado, benevolence and maybe some curiosity, I decided to join this trip to Cambodia, my very first time to a country of the Third World. Before we arrive, I thought the purpose of our trip, exaggerating a bit, was to be "lifesavers" to the Cambodians living in the remote areas. I absolutely had no idea that, now, after these twelve amazing days, I unexpectedly find that it is them, the kind-hearted, adorable villagers who are truly being my "lifesavers." Beautiful, clean blue sky, simple and pristine villages, with enthusiastic villagers gathering around us gave my journey a wonderful start. I thought I was ready to face the poverty, but realized I wasn't when I found myself in a daze seeing the naked girls and boys running along the sandy road on their bare, tiny foot. I started to ask myself, do I really know what poverty is, or what poverty means to me? (Reflective Essay 2)

Within the context of intercultural sensitivity, this student may be demonstrating signs of "reversal," which involves assumed superiority of another culture while denigrating one's own; at this point, the student has yet to progress to become a truly multicultural person at the DMIS final integration stage (building one's own identity within ethnorelativism and multicultural context by construing oneself in different cultural ways).

At the beginning of the course, the students might have believed that they were in a good position to help the "needy" in Cambodia, but resolved that they should treat the villagers on an equal footing rather than adopt a patronizing attitude. In addition, the students concluded that they learned a great deal from their interactions with the villagers. That is, in the process of giving, the students gained much in return, especially intangibly. This finding is reflected in the following:

I think that "co-workers" can best describe our relationship with the villagers. While they are assisting us, we learn from their positivity and simplicity. They will come over the site and interact with us, which I think it is very welcoming and supportive. (Reflective Essay 4)

Service-learning experience facilitates students' deliberation on their relationship with the service recipients. In addition, the staff from Cambodia involved in the course highlighted in a written reply that the very fact that the service-learning trip took place in a rural community (with urban vs. rural border-crossing) in a developing country (developed vs. developing world bordercrossing) was advantageous "in terms of social contributions and social engagements to poverty reduction, education and cultural understanding." Such a national bordercrossing service-learning endeavor can lead to cultural sensitivity and understanding, which may be difficult to achieve if the service is conducted in a local context. Servicelearning in an overseas context provides an additional cross-border nurturance ground for student reflections.

Ultimately, such a multifaceted border-crossing experience broadens students' horizons, providing them memorable and unforgettable experiences that are food for thought and that function well beyond the mere measurement of credits and marks. These factors can be concluded from what the students expressed in the focus group.

[The service-learning experience] really broadens my horizons. You must go to another place to see what is happening in the other side of the world. It greatly broadens my horizons. I notice many things in this trip. It is valuable. (Participant of focus group with Hong Kong students, female)

I really learnt how to be contented. If we went to Cambodia for visiting tourist attractions, we might not have such an unforgettable experience. During the whole course, I no longer worried about credits. I myself am like this. (Participant of focus group with Hong Kong students, female)

Thus, this service-learning trip fundamentally differed from a travel vacation, broadening students' horizons and granting them a memorable and extraordinary experience. The trip also provided students a new dimension toward studying and learning, something beyond the mere pursuit of credits and marks.

Conclusion

We applied mixed-methods research in a pioneering study of a course that included service-learning experiences involving Nevertheless, such an exposure to a far-off assessment of the efficacy of their service- does not conclusively echo such students' shoes of the Cambodian villagers. From this ther generalization and contextualization. perspective, a local service-learning experience with a lesser degree of border cross-

ing by serving the disadvantaged within the same society may have an advantage in constructing affective empathy.

five border-crossing dimensions: (1) urban world provides a rich ground for students versus rural, (2) developed versus devel- to reflect on the issue of global poverty, oping world areas, (3) classroom versus their values, their relationships with others practical and experiential, (4) Hong Kong within their society and the global world, versus Cambodian culture (cross-cultural), and their goals in life, resulting in high and (5) teachers' paternalism versus stu- subjective self-assessment, on the part of dents' voice. We conclude that these experi- the students, of the efficacy of the serviceences were largely effective in facilitating learning experience in moral development students' understanding of poverty, moral and empathy nurturance. However, the development, and empathy nurturance objective measurement of P-P moral and on the basis of students' subjective self- empathy levels, on the part of students, learning experience. Moral development on subjective self-assessment because the serthe part of students during such service- vice experience may mainly serve as food for learning experiences is more related to thought and reflection. Fundamentally, this cognitive than affective empathy building, cross-border service-learning trip served as a relationship that can be explained by the an invaluable experience in the formative huge gap involved in the developed versus years of these undergraduates, paving the developing world border crossing. This way for future subtle or evident changes gap makes the real feeling of prolonged in their lives through broadening their hunger too remote to be comprehensible horizons and exposure to another culture to nonpoor students who never experience socioeconomically, culturally, and nationsuch ordeals in their place of origin in the ally. This research is an intensive study of developed world. Thus, imagining the feel- a case of border-crossing service-learning ings involved in persistent hunger can be that involved a limited number of students. difficult for them, although they can cogni- Further research efforts to explore diverse tively comprehend the degree of difficulty of service-learning experiences in different such plights by putting themselves into the border-crossing contexts will lead to fur-



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