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‘Push-Pull’ Model of Lifelong Learning in Perak and Selangor

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Abstract

Adapting to the needs of students, working adult learners at local, public and private, universities in Malaysia enjoy greater autonomy in pursuing their education. Therefore, this study aims to identify ‘push-pull’ factors that determine working adult learners’ choice to pursue their studies. Additionally, this study also figures out the relationship between ‘push-pull’ factors in motivating students to further their academic studies. 200 questionnaires were distributed to working adult students pursuing part-time programs in public and private universities around Selangor and Perak. The ‘push-pull’ model was used in this study to identify which factors were the most influential in determining adult students enrolling in the study. Multiple regression analysis will also be used in this study to see the relationship between push-pull model and the tendency of students to choose to pursue their studies. For these purposes, statistical and econometrics analyses were used in this study. The results claimed that both push and pull factors were considered to be important when making decision to return to learning environment among working adults. Education and human resource development are closely intertwined and key to increase national competitiveness and enhance the country's economy.

Keywords: Push-Pull Model, Lifelong Learning (LI), Economics Education, Econometrics, Malaysia

Introduction

Education is seen as one of the major components of human capital. In addition to increasing the productivity of the workforce, education has a spillover effect, which education benefits the people who receive it as well as benefit the community. Education is a sure investment for the production of highly skilled human capital (Yogish, 2006; Alkhimenko, O. N., et. al., 2014). The Icheon Declaration, Article 10, UNESCO states that it will remain committed to ensure lifelong learning (LL) opportunities for all, in all situations and at all levels of education (World Education Forum, 2015; Ahmed, Isa, Majid, Zin, & Amin, (2017). In line with this, the Ministry of Higher Education Malaysia has made LLL one of the main agendas in its Education Development Plan (2015-2025) on the importance of education in promoting lifelong learning

(LL). Laal (2011) claims that lifelong learning is a lifelong development of skills and knowledge, which is achieved through the experience of a lifetime.

Adapted to the needs of students, part-time students at local, public and private universities enjoy greater autonomy and autonomy in determining their learning. Kimberley, et. al. (2016) and Altzinger *et. al*, (2015) explore the importance of knowledge in various aspects at an older age. The extension of adult student learning is also seen as more flexible than traditional campus programs, comprising full-time students on campus. Flexibility is viewed from the perspective of no age limit or academic inclusion criteria and which uses flexible scheduling, curriculum, and teaching methods (Leach & Webb, 1993). Furthermore, Firat (2017) reveals the importance of lifelong learning. He finds that Turkish students choose distance education not because of geographical restrictions, family-related issues or economic problems, but for reasons such as their involvement in their professions, to improve their knowledge and to seek better employment opportunities and positions.

It is also supported by Mohamad and Razali (2009); Ahmed, Umrani, Qureshi, & Samad, (2018) who discover that employers are hiring new employees with a wide range of academic skills, group work skills, and personal management skills with leadership and knowledge quality. Therefore, awareness of the importance of continually improving skills and knowledge should be available to every individual, especially those in the workforce. This is to ensure that the skills and knowledge available are up to date as required by the employer.

Other literature reviews also confirm the popular view that more mature students are pursuing a part-time university education. (Holmberg, 1995; Jevons, 1990). In addition, Wallace (2007) shows that the population of part-time students has shifted to younger students, neighborhoods, and the full-time course load that drives students to pursue part-time studies. He also finds that the most important obstacle that drives students to enroll in part-time study is work commitment; while the most important attraction relates to the control of time, place, and learning time. Oliver, et. al. (2017) support the role of disposition and hope on life satisfaction among older adults in attending lifelong learning programs. Moreover, Siivonen (2016); Ahmed, Majid, & Zin, (2016) points out that the continuous and up-to-date competency and continued success learning is necessary to succeed in their careers.

Therefore, we need to ascertain whether the 'push-pull' factors lead these students to choose these modalities. In this regard, the study of 'push-pull' factors in lifelong learning among working adults is important and necessary to ensure that the actions taken by the government so far are accurate and in line with the huge yearly budget allocated for education. Thus, this study aims to identify 'push-pull' factors that determine working adult learners' choice to pursue their studies. Finally, this study also figures out the relationship between 'push-pull' factors in motivating students to further their academic studies.

The research conceptual framework of 'push-pull' model in lifelong learning is portrayed in Figure 1.

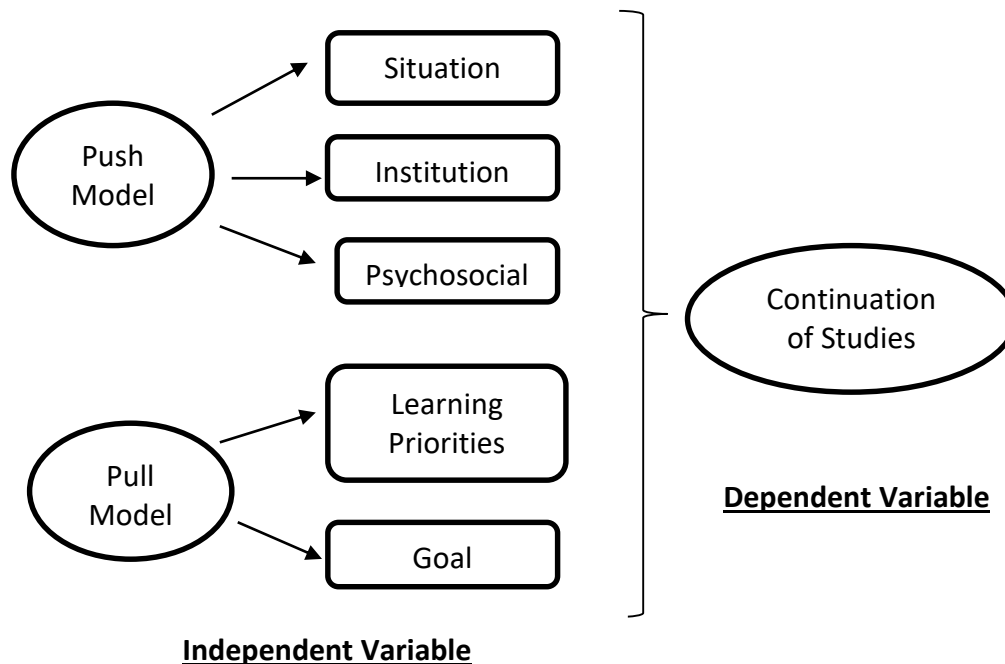


Figure 1 Research Conceptual Framework of ‘Push-Pull’ Model in Lifelong Learning

Methodology

This study was conducted by using the primary data method through survey studies distributed around Perak and Selangor. The questionnaires were adapted from Wallace (2007). The respondents consisted of part-time working adult students studying in public and private universities in those two states. Out of 200 survey forms distributed, we managed to analyzed 125 forms, which were completely filled out by the respondents.

Push model (response to obstruction) and pull model (attraction of learning) were used in this study to identify which factors were most influential in determining working adults to enroll in the academic studies. Factor analysis will then be used to answer the ‘push-pull’ model. In addition, differences in demographic and socioeconomic composition are also expected to be identified as contributors to the continuation of studies at public and private universities among working adults. For these purposes, statistical analyses were used to obtain the results. On the other hand, econometric analysis examined the relationship between ‘push-pull’ model and the tendency of students to choose to pursue their studies.

General Function

The general equation of the regression model becomes,

$$Y_t = \alpha_0 + \alpha_i + \epsilon_t \quad (1)$$

whereby,

α_0 = constant

α_i = Coefficient with (i=1,2,3, 4 dan 5)

ϵ_i = error term

Y_i = pursue studies

‘Push-Pull’ Model Function

Adapted from Wallace (2007), the general function of the multiple regression becomes,

$$Y_i = \alpha_0 + S_1 + S_2 + S_3 + S_4 + I_5 + I_6 + I_7 + P_8 + L_9 + L_{10} + L_{11} + L_{12} + L_{13} + L_{14} + L_{15} + G_{16} + G_{17} + G_{18} + G_{19} + G_{20} + G_{21} + G_{22} + \epsilon_i \quad (2)$$

whereby,

α_0 = constant

ϵ_i = error term

Y_i = pursue studies

S_i, I_i, P_i = push factor (situation, institution and psychosocial)

L_i, G_i = pull factor (learning priorities and goal)

Result Findings

In demographic composition, the results revealed that gender and race aspects were not significant in deciding whether working adult students enrolled and continued their studies. Meanwhile, in socio-economic aspects, highest education qualification and current working sectors in those working adults were significant in pursuing their education. In contrast, courses of study, fields of study and occupations were not significant determinants for working adults to further their studies.

Table 1 ‘Push-Pull’ Factor Analysis In Determining Working Adults Choose to Pursue Their Studies

Item	Min
Push Factor	
Situation	3.09
Institution	2.36
Psychosocial	3.02
Pull Factor	
Learning Priorities	3.25
Goal	3.69

Table 1 showed factor analysis of ‘push-pull’ model that determine working adults to continue their studies at government and private institutions around Perak and Selangor. There were five categories that were important in ‘push-pull’ model, namely, situation, institution, psychosocial under push factors, while learning priorities and goal priorities felt under pull factors.

Based on the results, pull factor exceeded push factor in this factor analysis, through which the goal category, had the highest overall mean score of 3.69. In addition, learning

priorities, a pull factor, followed behind with second highest mean score of 3.25. This specified that the main factor for working adult to pursue their studies was due to the goals and learning priorities of the adult learners. Meanwhile, push factors, specifically, situation, institution and psychosocial had moderate mean scores in influencing them to further their studies at government and private institutions, with mean score of 3.09, 2.36 and 3.02, respectively.

Table 2 'Push-Pull' Correlation of Working Adult Students

		mean_S	mean_I	mean_P	mean_L	mean_G
mean_S	Pearson Correlation	1	.378**	.364**	.231**	.245**
	Sig. (1-tailed)		.000	.000	.005	.003
	N	125	125	125	125	125
mean_I	Pearson Correlation	.378**	1	.265**	.077	-.024
	Sig. (1-tailed)	.000		.001	.198	.396
	N	125	125	125	125	125
mean_P	Pearson Correlation	.364**	.265**	1	.314**	.364**
	Sig. (1-tailed)	.000	.001		.000	.000
	N	125	125	125	125	125
mean_L	Pearson Correlation	.231**	.077	.314**	1	.583**
	Sig. (1-tailed)	.005	.198	.000		.000
	N	125	125	125	125	125
mean_G	Pearson Correlation	.245**	-.024	.364**	.583**	1
	Sig. (1-tailed)	.003	.396	.000	.000	
	N	125	125	125	125	125

* 0.01 level of significance

Table 2 indicated the degree of strength of the relationship between 'push-pull' variables in continuing their education. The outcome pointed out that all variables did not have high correlation between variables. To illustrate, learning priorities and goals were moderately and positively correlated with $r = 0.583$. Besides, situation and institutions, situation and psychosocial, as well as psychosocial and learning priorities, also had moderate and positive relationships with magnitude of 0.378, 0.364, 0.314, respectively. In contrast, the results also established the fact that the other variables were either weak or no relationship. Since none of the coefficient of the correlation were higher than 0.7, then there were no case of multicollinearity. The data also passed all other assumptions to proceed with regression analysis.

'Push-Pull' Model

$$Y_t = \alpha_0 + S_1 + S_2 + S_3 + S_4 + I_5 + I_6 + I_7 + P_8 + L_9 + L_{10} + L_{11} + L_{12} + L_{13} + L_{14} + L_{15} + G_{16} + G_{17} + G_{18} + G_{19} + G_{20} + G_{21} + G_{22} + \epsilon_t$$

Table 3 Relationships between Push-Pull Variables and Pursue Studies

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	5.403	2.124		2.543	.012
Push factor					
Situation					
Work commitment (S1)	.541	.348	.171	1.554	.123
Family commitment (S2)	.356	.282	.134	1.263	.210
Transportation difficulties (S3)	.035	.301	.014	.117	.907
Physical disabilities (S4)	.961	.378	.344	2.544	.012*
Institution					
Registration process(I5)	-.911	.373	-.352	-2.439	.016*
Course Time schedule (I6)	.217	.369	.084	.588	.558
Course offered (I7)	-.467	.381	-.176	-1.226	.223
Psychosocial (P8)	.192	.248	.086	.775	.440
Pull Factor					
Learning Priorities					
Independent study (L9)	-.024	.282	-.010	-.083	.934
Written work emphasis (L10)	.008	.310	.003	.025	.980
Outside classroom learners (L11)	.227	.274	.098	.831	.408
Freedom in studying (L12)	-.171	.334	-.060	-.512	.610
Course efficiency (L13)	-.162	.359	-.063	-.452	.652
Flexible learning (L14)	-.108	.425	-.038	-.254	.800

Detailed assignment feedback (L15)	-.186	.480	-.061	-.388	.699
Goal					
Knowledge driven (G16)	.102	.447	.037	.227	.821
Excellent grades (G17)	.275	.421	.097	.652	.516
Free time (G18)	.349	.389	.127	.897	.372
Attraction to learning (G19)	-1.194	.512	-.372	-2.334	.022*
Challenging (G20)	.084	.279	.033	.303	.763
Response to own needs (G21)	.161	.447	.052	.360	.720
Inclusive package (G22)	.043	.430	.014	.099	.921

* 0.05 significance value

Table 3 demonstrated the regression result of the analysis of the 'push-pull' factors that caused working adult students to further their studies. From the table, only three outstanding factors had significant relationships that drove working adults to pursue their studies. We could see that the statistical values, 0.012, 0.016 and 0.022, which were below 0.05 significance level, respectively. Since these three variables were below 95% confidence level, we rejected null hypothesis. This condition meant that these three factors were significant in determining working adults' decision to further their studies. Unfortunately, the rest of the variables were deemed to be insignificant factors whereby we had to accept H_0 , meaning that there were no significant relationship between these variables and working adults' decision to pursue their studies.

Therefore, two push factors, physical disabilities of adult students (S_4) and easier registration process (I_5) under each category, situation and institution, respectively, were important determinants for working adults to make such decision. Furthermore, attraction to learning, which felt under goal category in pull model, was also vital for these working adults in pursuing their education. It was considered to be one of the significant factors that pull working adults to the academic studies. Despite all that, the remaining 'push-pull' factors had no significant impacts on working adults to go back to the learning environment.

Conclusion

In a nutshell, this study concluded that goal was essential in deciding whether working adults should pursue their studies or not. Other than that, in one aspect of each category in 'push-pull' model, particularly, situation, institution and goal were significant contributors to such vital decision. Hence, both push and pull factors were considered to be important, when making decision to return to academic studies among working adults. Lastly, education and human resource development are closely intertwined and key to increase national competitiveness and enhance the country's economy.

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