Artikel Astrid Karina

by Astrid Karina

Submission date: 01-Jan-2020 11:42PM (UTC+0700)

Submission ID: 1238930093

File name: Astrid_Karina_The_Effects_of_Student_s.docx (210.63K)

Word count: 2848

Character count: 16126



Indonesian Journal on Learning and Advanced Education

http://journals.ums.ac.id/index.php/ijolae

The Effects of Students' Perception of the School Environment and Students' Enjoyment in Reading towards Reading Achievement of 4th Grades Students in Hong Kong

Astrid Karina Wingard¹, Hardika Dwi Hermawan², Vita Rosiana Dewi³

¹Faculty of Education, University of Gothenburg, Sweden

DOI: 10.23917/ijolae.v2i2.9350

Received: November 25th, 2019. Revised: December 15th, 2019. Accepted: December 25th, 2019 Available Online: January 1st 2020. Published Regularly: July 1st, 2020

Abstract

The purpose of this study is to investigate some perceived factors in students reading achievement. This study focuses on the correlation between fourth graders' safety feeling inside school environment and their reading enjoyment towards their reading achievement. Descriptive analysis used in this study and data draws from Progress in International Reading Literacy Study (PIRLS) 2016. The participants were 3349 students in their fourth year of schooling in Hong Kong where 49.1% were girls and 50.9% were boys. The range of the age was 8 to 15 years old. The result showed the importance of creating a safe school environment. Besides students' perception of their school environment, students' reading enjoyment was another factor which influenced reading achievement. Students' perception of the school environment and students' enjoyment in reading also affected students' reading achievement, but the perception of reading is boring gave stronger effect to the reading achievement.

Keywords: Student's perception; school environment; student's enjoyment; reading achievement.

Corresponding Author:

Astrid Karina Wingard, Faculty of Education, University of Gothenburg, Sweden.

Email: astridwingard@gmail.com

1. Introduction

Reading is generally recognized as one essential part of human life. Ng. Renandya, and Chong (2011) interpreted reading as the process of making meaning from written texts. A similar definition for reading comprehension is given by Israel & Duffy (2009) and Roe et al (2005) that reading comprehension is to make meaning of what we read. This definition means that it is not enough to decode the letters and words, one has to add knowledge and meaning to what is read (Roe, 2005). Therefore, reading achievement becomes one indicator to measure the success rate of students' academic performance. The

existence and function of schools play a significant role in student development and academic performance as a large amount of children's active time has been spent at school. Previous research conducted by Nijs et al (2013) concludes that perceived school safety is strongly and independently associated with self-reported mental health problems. These mental health problems have opportunities to influence student learning achievement. Other researchers, Wang and Holcombe (2010), say in their study that students' perceptions of their school can contribute to their level of academic engagement (cited in Côté-Lussier and Fitzpatrick, 2016, p.548). This means that

²Faculty of Education, the University of Hong Kong, Hong Kong

³College of Business and Economics, the Australian National University, Australia

schools must build positive environment to support students' reading achievement.

On the other hand, the feelings of students themselves must be considered as other factors that also influence their reading achievement. Malanchini, et al. (2017) investigated children's motivation for reading which the enjoyment experience of reading is included as one of the motivation factors. These children come from different ethnicities. The study showed there is a relationship between student enjoyment in reading and their reading achievement. This result is in line with the findings from Preece & Levy (2018) and Retelsdorf et al (2011) in their research.

This study is designed to investigate some perceived factors in order to know whether they have an effect on students reading achievement or not, but this study will focus on the following research questions:

- (1) Does students' feeling of safety in school affect their reading achievement?
- (2) Does students' reading enjoyment influence their reading achievement?
- (3) Do students' feeling of safety in school and students' reading enjoyment affect their reading achievement?

To answer the research questions, some tests will be conducted to examine these hypotheses: Feeling safe at school is associated with positive gains at students' reading achievement (Hypothesis 1); Enjoyable reading makes a good contribution to reading achievement (Hypothesis 2). The following hypotheses were formulated and tested at a 0.05 level of significance.

2. Method

This study draws on data from Progress in International Reading Literacy Study

(PIRLS) 2016. The participants were 3349 students in their fourth year of schooling in Hong Kong (Mullis et al., 2017) where 49.1% were girls and 50.9% were boys. The range of the age was 8 to 15 years old, but most of them were 10 years old.

a. Outcome and Predictor Variables

Reading Achievement

In the current analysis, the outcome or dependent variable is students reading scores in PIRLS 2016. It was reported in the form of plausible values. There were five plausible values in reading, but the analysis was limited to the first plausible value.

Students' Perception of the School Environment.

24 Students reported to what extent they agreed with the statement "I feel safe when I am at school". The answers were rated into four categories as follows: 1 = very agree, 2 = agree, 3 = disagree, 4 = very disagree.

Students' Enjoyment in Reading

Students were asked what they think about reading. They reported to what extend they agreed that (i) I enjoy reading; and (ii) I think reading is boring (1 = very agree, 2 = agree, 3 = disagree, 4 = very disagree; Cronbach's $\alpha = .72$).

3. Descriptive Statistics

Figure 1 shows a normal distribution of Hong Kong students' achievement in reading. The average reading score is 573. A center point of 500 was set by the IEA with standard deviation of 100 (see Mullis et al., 2017). Using one-sample t-test, Hong Kong students performed significantly better at 73 points higher than the average international test score since it showed a positive sign.



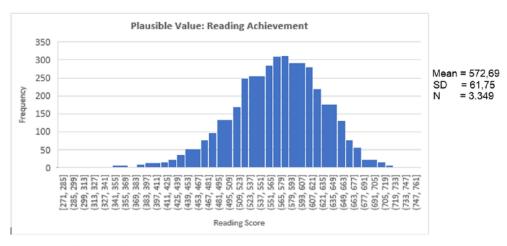


Figure 1. Distribution of Fourth Graders' Reading Achievement in Hong Kong

There are some variables that are predicted to be involved in influencing student reading achievement, such as students' safety feeling, reading enjoyment, and reading boredom. The description of each variable is presented in table 1 and for more detailed obtained answers, in figure 2.

Most of the students were feeling safe when they were at school (M = 1.64, Standard

Deviation = .84). When they were asked about their thought towards reading, from 3287 valid participants, the trend exhibits enjoyable feeling for reading (M = 1.72, Standard Deviation = .93) in line with disagreement feeling to the statement "reading is boring" (M = 3.24, Standard Deviation = .99) obtained from 3291 valid participants.

Table 1. Students' Feeling Towards School Safety and Reading Enjoyment

	Mean	Standard Deviation -	N	
			valid	missing
Feeling safe at school	1.64	.84	3294	55
Enjoy reading	1.72	.93	3287	62
Reading is boring	3.24	.99	3291	58

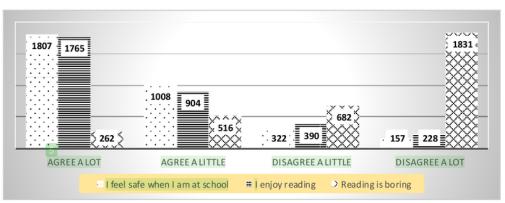


Figure 2. Total numbers obtained of each predictor variable

4. Findings

The analyses below are designed to answer all the research questions regarding the effects of students' perception of the school environment towards reading achievement, research question about the correlation between students' enjoyment in reading and their reading achievement, and the correlation among them all.

a. Feeling Safety at School and Reading Achievement

As the aforementioned description, students in Hong Kong were feeling safe at school (M = 1.64) and their reading achievement average is 573. Thus, to know the relation between these two variables, linear regression was used, and three dummy independent variables were made: those who very agree to the statement "I feel safe when I am at school" (dummy 1), collapsed values of agree and disagree (dummy 2) and very disagree to the statement (dummy 3). In the test, dummy 3 became the base.

The test result presented that 2.1% of the variance of the dependent variable is explained by independent variables. The t-value for dummy 1 and dummy 2 was more than 1.96 which means both dummy variables had a statistically significant impact on the reading achievement at a 95% level of confidence.

Therefore, we can accept the alternative hypothesis that there is a relationship between reading achievement and students' feeling safety at school, and then reject the null hypothesis.

b. Reading Enjoyment and Reading Achievement

A one-way between-groups analysis of variance (ANOVA) was conducted to investigate the effect of reading enjoyment towards reading achievement. There are two predictor variables as explained in section 3.2.3. Separately, each independent variable is tested against reading achievement.

The independent variable of "I enjoy reading" statement significantly affected reading achievement at p<.05 level. The scores for the four Likert-scale groups: F(3,3283)=68.175, p=.000. Since ANOVA cannot present within which groups the difference is, then another test, Post-Hoc had been run. The Post-Hoc comparisons using Bonferroni test presented the mean score for all four categories were significantly different from each other: Category 1 (M = 584.79, SD = 59.66), Category 2 (M = 568.10, SD = 58.45), Category 3 (M = 557.84, SD = 63.58), and Category 4 (M = 532.71, SD = 56.45).

Another independent variable with the statement "Reading is boring" was also scaled into four categories of to what extent the students agree about the statement, but the value had been recorded since it has a negative answer meaning (Category 1: very disagree, category 2: disagree, category 3: agree, and category 4: very agree). The one-way ANOVA test presented that there was statistically significantly different at the p<.05 level for the four scaled-category: F (3,3287) = 98.77, p = .000. The same step was done as the previous independent variable. Post-Hoc comparisons using Bonferroni test indicated that the mean score of Category 1 (M = 584.99, SD = 58.70) did not significantly differ from Category 2 (M = 576,68, SD = 54.99), but statistically significantly differed from Category 3 (M = 547.31, SD = 61.67) and Category 4 (M = 533.25, SD = 64.08). Category 3 and 4 were significantly different from Category 1 and 2 but did not significantly differ to each other.

Unstandardized Coefficients Model β p SE 1 616,71 2,81 .000 (Constant) -5,23,000 Feeling safe at school 1,25 -,072Reading is boring (recoded) -13.081.26 -,209,000-6,88 1,37 -,104 Enjoy Reading ,000

Table 2. Regression Coefficients for Plausible Value: Overall Reading PV1

c. Effects of Feeling Safety at Schools and Reading Enjoyment on Reading Achievement

Multiple regression analysis was designed to investigate students reading achievement using the enter method. The regressors were students' safety feeling and their personal feeling towards reading.

The overall regression model was statistically significant, F(3, 3269)=110.99, p<.005. With the $R^2=.092$, it exhibited 9.2% of the variance in reading achievement can be predicted by the independent variables. In the regression coefficients, as can be seen at table 2, from the Standardized Beta (β) column, reading is boring (recoded) variable had the strongest effect to the reading achievement and then followed by enjoying reading and feeling safe at school.

Now, let us move to the B column. Here, the model showed that for every one unit increase in feeling safe at school, the reading achievement will decrease by 5.23 units. Also similarly, for variable reading is boring (recoded), for every one unit increase in this variable, the dependent variable decreases by 13.08 units. Then, with every one unit increase in enjoy reading, it will decrease the reading achievement by 6.88 unit.

5. Conclusion and Discussion

The current study investigated some factors that account for Hong Kong students reading achievement, with its focus on the correlation between fourth graders' safety feeling inside school environment and their reading enjoyment towards their reading achievement. Even though Hong Kong is one of the regions that has developed in term of ICT in education (Hermawan, 2019), but reading achievement and school environment play an essential role in the quality of education itself.

The analyses represented correlation between students' perception of their school environment against their reading achievement through reading comprehension test. The perception here was narrowed into feeling of being safe at school. This result showed the importance of creating a safe school environment because to gain a productive learning requires a safe environment (Diamanduros & Downs, 2011; Ferrin, 2011; Stephan, 2016). This study also confirms what Wang and Holcombe (2010) said in their study that students' perceptions of their school can contribute to their level of academic engagement (cited in Côté-Lussier and Fitzpatrick, 2016, p.548). Hence, it is highly encouraged for the schools to keep on creating a safe school environment for learners to be able to obtain better academic achievement (Lopez, 2019; Mooney et al, 2010).

Besides students' perception of their school environment, students' reading enjoyment is also predicted as another factor which can influence reading achievement. The correlation between these variables was explained through ANOVA and Post-Hoc test. The statistically significant difference means students' feeling of enjoyment in reading af-

fects their reading achievement. Unfortunately, detailed explanations of what factors can make students enjoy reading from the perspective of the students themselves are limited, but there are a number of predictable ways that can make students interested and enjoy reading as compiled by OECD (2012). Chiu & McBride-Chang (2006), Smith et al (2012) and Hochweber & Vieluf (2018) said that gender differences associated with reading achievement. Hence, this case can be investigated for future research.

The last research question of this study was answered through testing those two predictor variables together with the outcome variable aimed to know the correlation among them. As predicted, in the multiple regression test, the result was statistically significant. Then, it can be concluded that students' perception of the school environment and students' enjoyment in reading affected students' reading achievement, but the perception of reading is boring gave stronger effect to the reading achievement. Wayne et al (2013) and Gietz & Mcintosh (2014) also stated that student perception and learning environment have a relationship with academic performance, including reading achievement. Further studies are needed by increasing the number of predicted variables to enhance the research accuracy level.

6. References

- Cote-Lussier, C., & Fitzpatrick, C. (2016). Feelings of Safety at School, Socioemotional Functioning, and Classroom Engagement. *Journal of Adolescent Health*, 58(5), 543. doi:10.1016/j.jadohealth.2016.01.003
- Diamanduros, T., & Downs, E. (2011). Creating a Safe School Environment: How to Prevent Cyberbullying at Your School. *Library Media Connection*, 30(2), 36-38.

- Ferrin, Scott Ellis. (2011). Symposium Section: Rights, Religion, Regard, Contact: The Common School Ideal, A Nurturing, Safe and Effective Educational Environment for All Students. Brigham Young University Education and Law Journal, 2011, 205-701.
- Gietz, C., & Mcintosh, K. (2014). Relations Between Student Perceptions of Their School Environment and Academic Achievement. Canadian Journal of School Psychology, 29(3), 161-176.
- Greaney, K. (2011). The Multiple Cues or "Searchlights" Word Reading Theory: Implications for Reading Recovery®. *Perspectives on Language and Literacy*, 15-19.
- Hansen, E. J. (2016). Reading Comprehension. Thesis. Spring: Master Fremmedspråki skolen.
- Hermawan, H. D., Deswila, N., & Yunita, D. N. (2018, July). Implementation of ICT in Education in Indonesia During 2004-2017. In 2018 International Symposium on Educational Technology (ISET) (pp. 108-112). IEEE.
- Hochweber, J., & Vieluf, S. (2018). Gender differences in reading achievement and enjoyment of reading: The role of perceived teaching quality. The *Journal of Educational Research*, 111(3), 268-283.
- Israel, S., & Duffy, G. (2009). *Handbook of research on reading comprehension*. New York: Routledge.
- Lopez, R. (2019). Overcoming Barriers: School Principals and SROs Collaborating to Create a Safe School Environment. *The Clearing House: A Journal of Educational Strategies, Issues and Ideas*, 92(4-5), 149-155.
- Malanchini, M., Wang, Z., Voronin, I., Schenker, V., Plomin, R., Petrill, S., & Kovas, Y. (2017). Reading Self-Perceived Ability, Enjoyment and Achievement: A Genetically Informative Study of Their Reciprocal Links Over Time. Developmental Psychology, 53(4), 698-712.

- Mooney, C., Ross, J., & Moloney, M. (2010). Sustaining a Safe and Healthy School Environment Every Day. *Momentum*, 41(2), 28-30,32-34.
- Mullis, I. V. S., Martin, M. O., Foy, P., & Hooper, M. (2017). PIRLS 2016 International Results in Reading. Retrieved from Boston College, TIMSS & PIRLS International Study Center.
- Ng, Q., Renandya, W., & Chong, M. (2019). Extensive Reading: Theory, Research and Implementation. *TEFLIN Journal*, 30(2), 171-186..
- Nijs, M., Bun, M., Tempelaar, C., Wit, J., Burger, E., Plevier, W., & Boks, N. (2014). Perceived School Safety is Strongly Associated with Adolescent Mental Health Problems. Community Mental Health Journal, 50(2), 127-134.
- OECD. (2012), Let's Read Them a Story!
 The Parent Factor in Education,
 PISA, OECD Publishing.
 http://dx.doi.org/10.1787/978926417
 6232-en
- Piaget, J. (1936). The origins of intelligence in children. Translated by Margaret Cook. International Universities Press, New York, 1952

- Retelsdorf, J., Köller, O., & Möller, J. (2011). On the effects of motivation on reading performance growth in secondary school. *Learning and Instruction*, 21(4), 550-559.
- Roe, B., Smith, S. H., & Burns, P. C. (2011). Teaching reading in today's elementary schools (9th ed). Cengage Learning, Boston: Houghton Mifflin.
- Smith, Jeffrey K, Smith, Lisa F, Gilmore, Alison, & Jameson, Madgerie. (2012). Students' self-perception of reading ability, enjoyment of reading and reading achievement. Learning and Individual Differences, 22(2), 202-206.
- Stephan, S. (2016). 5.6 Practice and Policy Tools to Support Schools in Creating Safe and Supportive Learning Environments. *Journal of the American Academy of Child & Adolescent Psychiatry*, 55(10), S94.
- Wayne, S., Fortner, S., Kitzes, J., Timm, C., & Kalishman, S. (2013). Cause or effect? The relationship between student perception of the medical school learning environment and academic performance on USMLE Step 1. Medical Teacher, 35(5), 376-380.

Artikel Astrid Karina

ORIGINALITY REPORT

SIMILARITY INDEX

INTERNET SOURCES

8%

PUBLICATIONS

7%

STUDENT PAPERS

PRIMARY SOURCES

Endya B. Stewart. "Family- and Individual-Level Predictors of Academic Success for African American Students", Journal of Black Studies, 2016

2%

Publication

Wai Ming Cheung, Joseph W. I. Lam, Doreen W. H. Au, Wendy W. Y. So, Yanli Huang, Hector W. H. Tsang. "Explaining student and home variance of Chinese reading achievement of the PIRLS 2011 Hong Kong", Psychology in the Schools, 2017

2%

Publication

eiournal.ums.ac.id

Internet Source

2%

bradscholars.brad.ac.uk

Internet Source

www.coursehero.com

Internet Source

ageconsearch.umn.edu Internet Source

7	fkip.ums.ac.id Internet Source	1%
8	onlinelibrary.wiley.com Internet Source	1%
9	Submitted to CSU, Fullerton Student Paper	1%
10	link.springer.com Internet Source	1%
11	academicjournals.org Internet Source	1%
12	Submitted to King's College Student Paper	1%
13	Brian C. Wesolowski, Ross M. Amend, Thomas S. Barnstead, Andrew S. Edwards et al. "The Development of a Secondary-Level Solo Wind Instrument Performance Rubric Using the Multifaceted Rasch Partial Credit Measurement Model", Journal of Research in Music Education, 2017 Publication	<1%
14	www.tandfonline.com Internet Source	<1%
15	Submitted to Northcentral Student Paper	<1%

16	www.iea.nl Internet Source	<1%
17	www.tojned.net Internet Source	<1%
18	Submitted to University of Hong Kong Student Paper	<1%
19	Al-Aidarous, Khadijah Houd. "Exploring EFL Learners' Perception and Performance in Blended Learning Environment in Saudi Technical Education Context", King Abdulaziz University: Scientific Publishing Centre, 2016	<1%
20	Amelie Rogiers, Hilde Van Keer, Emmelien Merchie. "The profile of the skilled reader: An investigation into the role of reading enjoyment and student characteristics", International Journal of Educational Research, 2020 Publication	<1%
21	libres.uncg.edu Internet Source	<1%
22	Michela Gnaldi. "Attitude items and low ability students: the need for a cautious approach to interpretation", Educational Studies, 6/2005	<1%
23	Submitted to University of Washington Student Paper	<1%

Exclude quotes

On On Exclude matches

Off

Exclude bibliography

Artikel Astrid Karina

\sim		B A A			POR	_
1 - R	$\Delta I I \vdash$	1 N / I 🔼	RK	R = 1	JI 112	

FINAL GRADE

GENERAL COMMENTS

/100

Instructor

PAGE 1	
PAGE 2	
PAGE 3	
PAGE 4	
PAGE 5	
PAGE 6	
PAGE 7	