Chapter 4 Language Teachers' Perceptions of External and Internal Factors in Their Instructional (Non–) Use of Technology

Haixia Liu

Beijing Normal University Zhuhai Campus, China & Michigan State University, USA

Chin-Hsi Lin Michigan State University, USA

Dongbo Zhang Michigan State University, USA

Binbin Zheng Michigan State University, USA

ABSTRACT

Prior studies (e.g., Li & Walsh, 2011) found that language teachers did not use technology fully despite its possible facilitating function in language teaching. Through a survey and group discussions, this study explores pre-service Chinese-language teachers' perceptions of the internal and external barriers to their instructional technology use. The respondents (N=47) expressed five main types of external barriers: a) lack of technology, b) difficulty in accessing the available technology, c) lack of technical support, d) lack of proper assessment, and e) negative parental attitude. The two main internal barriers identified in this research were a) negative attitude originating from teachers' pedagogical beliefs, and b) lack of technology-related knowledge. The findings of this study should be of practical use in the future design and implementation of professional development aiming at improving language teachers' use of technology in teaching.

DOI: 10.4018/978-1-5225-0483-2.ch004

INTRODUCTION

The history of using technology such as computers, audio and video to facilitate foreign-language learning is not short. As Garrett (1991) noted, technology can "play a major role in foreign language learning and in research on that learning" (p. 95). The advent of new technologies (e.g., multimedia, mobile devices, and the Internet) has brought new opportunities for the facilitation of language learning and instruction in almost all major language areas including grammar, vocabulary, reading, writing, listening and speaking (Levy, 2009). The advantages of using technology in the classroom have also been verified as well. Warschauer and Harley's work (as cited in Li & Walsh, 2011) found that proper integration of information and communication technology (ICT) was associated with "a more interactive language classroom, motivating learners", and "authentic language output" (p. 101). Therefore, it is not surprising that there has been an increased emphasis on technology adoption in many national curriculum guidelines, including those for foreign languages (Oxford & June, 2007). The U.S. National Standards in Foreign Language Education Project (1999), for example, listed use of technology as one of the seven essential elements of curricular design. The considerably more recent 21st Century Skills Map for World Languages (ACTFL, 2011) also places particular emphasis on the integration of technology with classroom practices to enhance students' learning.

Despite this increased emphasis, the literature has shown that technology has not been used to its full potential in language teaching in U.S. (Ravitz, Becker, & Wong, 2000; Arnold, 2007). However, studies discussing *why* there had been such underuse among language teachers have been rare. Most existing research on technology acceptance or adoption mainly focused on teachers regardless of their teaching content (e.g., Ertmer, 1999; Ertmer, Ottenbreit, Sadik, Sendurur, & Sendurur, 2012; Teo, 2011, 2014). Yet more studies on how teachers from a particular academic content area use technology is in need. For an example, it is suggested that future study should look at "sector specific and subject specific barriers" (BECTA, 2004, p. 4). Given the importance of technology integration in language classrooms, and the low technology uptake by language teachers, the present study aims to find out what factors or barriers language teachers perceive as having an influence on their (non-) use of technology in their teaching.

LITERATURE REVIEW

Quite a few studies have touched on the issue of teachers' low levels of technology integration. One line of research has aimed to identify which aspects of technology-adoption models influence teachers' intentions to use technology by testing those models among teachers (e.g. Teo, 2011, 2014). Another has attempted to identify specific barriers that may prevent teachers from using technology in the class-room (e.g. Bradley & Russell, 1997; Ertmer, 1999; Ertmer et al., 2012; Veen, 1993). In spite of their seemingly divergent foci, both these lines of enquiry have aimed to explain technology (non-) use from external and internal angles.

External Factors

External factors are those that do not pertain to teachers themselves, but to resource-availability issues such as time, money, support, and training. They have been widely reported to have very substantial effects on teachers' technology adoption (e.g., Egbert, Paulus, & Nakamichi, 2002; Li, 2014; Li & Walsh, 2011),

16 more pages are available in the full version of this document, which may be purchased using the "Add to Cart" button on the publisher's webpage: www.igi-global.com/chapter/language-teachers-perceptions-of-external-andinternal-factors-in-their-instructional-non--use-of-technology/160328

Related Content

Using Multimodal Literacies to Support Language Development for English Language Learners

Peggy Semingsonand Carla Amaro-Jiménez (2017). Handbook of Research on Promoting Cross-Cultural Competence and Social Justice in Teacher Education (pp. 320-338).

www.irma-international.org/chapter/using-multimodal-literacies-to-support-language-development-for-english-language-learners/163994

Professional Designing as One of Key Competencies of Modern Teacher: An Ability Which Every Teacher Needs to Have

Valentin Voroshilov (2017). Facilitating In-Service Teacher Training for Professional Development (pp. 276-299).

www.irma-international.org/chapter/professional-designing-as-one-of-key-competencies-of-modern-teacher/173287

Applying UNESCO ICT Competency Framework to Evaluate Teachers' ICT Competence Levels in Tanzania

Joel S. Mtebe (2020). Handbook of Research on Innovative Pedagogies and Best Practices in Teacher Education (pp. 350-366).

www.irma-international.org/chapter/applying-unesco-ict-competency-framework-to-evaluate-teachers-ict-competencelevels-in-tanzania/231167

Virtual Activities to Promote Multiculturalism and Sustainability of International Partnerships

Jiyoon Yoonand Insoon Han (2016). *Teacher Education: Concepts, Methodologies, Tools, and Applications* (pp. 1384-1401).

www.irma-international.org/chapter/virtual-activities-to-promote-multiculturalism-and-sustainability-of-internationalpartnerships/153369

Joint Professional Development of Teacher Candidates and Mentoring Teachers in Using Project-Based Learning for 21st Century Learning Outcomes

Neal Shambaugh (2016). *Teacher Education: Concepts, Methodologies, Tools, and Applications (pp. 1255-1274).*

www.irma-international.org/chapter/joint-professional-development-of-teacher-candidates-and-mentoring-teachers-inusing-project-based-learning-for-21st-century-learning-outcomes/153362