

## **Yao-Ting Sung**

National Taiwan Normal University

### **Education**

Ph.D., National Taiwan Normal University, Educational Psychology,  
1994/9-2000/6

Major: Educational Psychology

Post-Doctoral Fellow, Learning Research and Development Center,  
University of Pittsburgh, 2002/8- 2004/2

### **Position held**

2000/8-2006/7

Associate Professor, Department of Educational Psychology and  
Counseling, National Taiwan Normal University.

2006/8-present

Professor, Department of Educational Psychology and  
Counseling, National Taiwan Normal University.

Director, Research Center for Psychological and Educational  
Testing, National Taiwan Normal University.

### **Research interest**

Learning Psychology

Educational Assessment

Use of educational psychology theories for designing digital  
learning environments

### **Academic Services**

- Chair, 2007 International Conference on Entrance Examination and Admission Policy.
- Co-Chair, Committee of Workshop, International Conference on Intelligent Tutoring System, 2006.
- Member, Program Committee, IEEE International Conference on Advanced Learning Technology (ICALT), 2005.
- Member, Program Committee, International Conference on Learning, Teaching, and Assessment, 2005.

- Member, Program Committee, International Workshop of Mobile and Ubiquitous Learning, 2006.
- Member, Program Committee, International Conference on Computers in Education (ICCE), 2007.
- Member, Review Panel, British Journal of Educational Technology, 2006-
- Member, Editorial Board, International Journal of Mobile Learning and Organization, 2007-
- Reviewer, Computers & Education: An International Journal, 2006-
- Reviewer, Annual Meeting of the American Educational Research Association, 2001-2005.
- Reviewer, World Conference on Educational Multimedia, Hypermedia, and Telecommunication, 2003-2005.
- Reviewer, International Conference on Intelligent Tutoring System, 2006-
- Reviewer, International Workshop on Mobile and Ubiquitous Technology for Education, 2006-
- Session Chair, Annual Meeting of the American Educational Research Association, 2003.
- Session Chair, International Conference of the Society for Informational Technology for Teachers, 2003.

### **Honors and Awards**

2001

Excellency Research Award, National Science Council, Taiwan

2002

National Science Council Project Creative Award, Taiwan

2002-2004

Scholarship for Post-Doctoral Study, Ministry of Education, Taiwan

2002- 2003

Fulbright Scholarship for Post-doctoral Study, Fulbright Foundation, USA.

2002-2005

Wu Da-Yu Research Award, National Science Council, Taiwan

2005-2006

Secondary Excellency Research Award, National Science Council, Taiwan

2007

Distinguished Research Award, National Science Council, Taiwan

### **Selected publications**

Sung, Y. T., Lee, M. D., & Chang, K. E. (in press). Learning by playing: Use of multimedia games to facilitate the development of young children's categorical concepts. *Computers & Education*. (SSCI).

Sung, Y. T., Huang, J. S., & Chang, K. E. (in press). Enhancing students' strategy use and reading comprehension through a computer assisted strategies teaching and learning environment. *Computers in Human Behavior*. (SSCI)

Chang, K. E., Sung, Y. T., & Lin, S. Y. (in press). Developing geometry thinking through multimedia learning activities. *Computers in Human Behavior*. (SSCI)

Chang, K. E., Sung, Y. T., & Hou, H. T. (2006). Web-based tools for designing and developing teaching materials for integration of information technology into instruction. *Educational Technology and Society (IEEE)*, **9**, 139-149. (SSCI)

Chang, K. E., Sung, Y. T., & Zheng, J. W. (in press). Hypermedia authoring with writing process guidance. *British Journal of Educational Technology*. (SSCI)

Hou, H. T., Chang, K. E., & Sung, Y. T. (in press). An analysis of peer-assessment online discussion within a course that uses a project-based learning. *Interactive learning Environment*. (SSCI)

Lan, R. J., Sung, Y. T., & Chang, K. E. (in press). What makes collaborative early EFL reading effective? A mobile device-supported peer-assisted learning system. *Language Learning and Technology*. (SSCI)

Sung, Y. T. (2007). Software infrastructure for teachers: A missing link in integrating technology with instruction. *Teachers College Record*.  
( NSC93-2524-S-003-013; NSC94-2524-S-003-006 ) (SSCI)

Chang, K. E., Sung, Y. T., & Lin, S. F. (2006). Computer-assisted learning for mathematical problem solving. *Computers and Education*, **46**, 140-151. (NSC 90-2520-S-003-006) (SSCI)

- Lan, R. J., Chang, K. E., & Sung, Y. T. (2006). Cooperative learning in small EFL early reading groups. *Journal of Pan-Pacific Association of Applied Linguistics*, *9*, 200-231.
- Chang, K. E., Sung, Y. T., & Chang, R. B., Lin, S. C., and Y. T. Sung (2005). A new assessment for computer-based concept mapping. *Educational Technology and Society*, *8*, 138-148. (SSCI).
- Sung, Y. T., Chang, K. E., Chiou, S. K., Hou, H. T. (2005). The design and application of a Web-based self- and peer-assessment system. *Computers and Education: An International Journal*, *45*, 187-202. (NSC91-2520-S-003-023 ) (SSCI)
- Sung, Y. T., Lin, C. S., Lee, C. L., & Chang, K. E. (2003). Evaluating proposals for experiments: An application of Web-based self- and peer-assessment. *Teaching of Psychology*, *30*, 331-334. ( NSC90-2520-S-003-013 ) (SSCI)

### **Conference Papers**

- Sung, T. C. ( Y. T.), Chen, S. F.,& Chang, K.E. (1998). Concept mapping with scaffolding learning. Paper presented in the sixth International Conference on Computers in Education (ICCE1998), Oct. 14-17, Beijing, China.
- Sung, Y. T. ( T. C.), Chen, I. D.,& Chang, K.E. (2000). The effect of concept mapping to enhance text comprehension and summarizing abilities: A scaffold-fading approach. Paper presented in the 2000 annual meeting of American Educational Research Association (AERA2000), April, 24-28, New Orleans.
- Sung, Y. T., Chiou, S. K.,& Chang, K. E. (2001). Use of hierarchical hyper concept map in web-based courses. Paper presented in the ninth International Conference on Computers in Education (ICCE2001), Nov. 12-15, Seoul, Korea.
- Sung, Y. T., Hou, H. T, & Chang, K. E. (2001). Design of web-based instructional design environment and the examination of its effects. Paper presented in the ninth International Conference on Computers in Education (ICCE2001), Nov. 12-15, Seoul, Korea.
- Sung, Y. T., Chang, K. E., & Lee, C. L. (2002). Improving experimental project evaluation through web-based self- and peer assessment. Paper presented at the 13th International Conference of Society for Information Technology and Teacher Education (SITE2002), Nashville, TN, March 25-30.

- Sung, Y. T., Huang, J. S., & Chang, K. E. (2002). CASTLE: A tutoring system with multiple strategies for reading comprehension. Paper presented at the Tenth International Conference on Cognitive Processing of Chinese and Other Related Asian Languages (ICCPCORAL2002), Taipei, Taiwan, Dec. 9-11.
- Sung, Y. T., Chiou, S. K., Ho, H. T., & Chang, K. E. (2003). Web-SPA: A Web-based self- and peer-assessment system with multiple functions and friendly interface for teachers. Paper to be presented at the 14th International Conference of Society for Information Technology and Teacher Education (SITE2003), Albuquerque, NM, March 24-29.
- Sung, Y. T., & Chang, K. E. (2003). Web-enhanced instruction: The case for Experimental psychology courses. Poster presented in the 2003 Annual Conference of American Psychological Society, May 29-June 1, Atlanta, GA.
- Sung, Y. T., Lin, C. S., Chiou, S. K., & Chang, K. E. (2003). Using Web-based Progressively focused Self- and Peer- Assessment to Enhance Students' Reflective Thinking and Performance on Hypermedia Design. Paper presented at the ED-MEDIA 2003-World Conference on Educational Multimedia, Hypermedia &?? Telecommunications, June, 23-28, Honolulu, Hawaii.
- Sung, Y. T., Hwang, R. S., Su, Y. F., & Chang, K. E. (2003). The Design and Application of a Computer Assisted Reading Comprehension System with Multiple Strategies. Paper presented at the ED-MEDIA 2003-World Conference on Educational Multimedia, Hypermedia & Telecommunications, June, 23-28, Honolulu, Hawaii.
- Sung, Y. T., Chang, K. E., & Chang, T. H. (2004). Teachers' reflection and learning in digital teaching portfolios: An empirical evaluation. Paper presented at the 2004 Annual Meeting of American Educational Research Association, April, 12-16, San Diego, CA.
- Sung, Y. T., Lee, M. D., & Chang, K. E. (2004). Using multimedia games to facilitate young children's categorical concepts development. Paper presented at the 2004 International Conference on Computers and Education, Nov. 30- Dec. 3, Melbourne, Australia.
- Sung, Y. T., Chang, K. E., & Lin, H. Y. (2005). Learning optical concepts through

simulations with different supports. Paper presented at the 2005 Conference on Computer Assisted Learning (CAL' 05 Virtual Learning?). April, 4-6, University of Bristol, Bristol, UK.

Sung, Y. T., Lan, P. C., & Chang, K. E. (2005). The development of young children's categorical preferences and categorical concepts. Paper presented at the 2005 Annual Conference of Taiwanese Psychological Association, Oct., 1-2. Chung Li.?

Sung, Y. T., & Chang, K. E. (2005). Exploring the learning, reflection, and social interaction of teachers through digital teaching portfolios. Paper presented at the 2005 Annual Conference of Taiwanese Psychological Association, Oct., 1-2. Chung Li.

Sung, Y. T. (2005). Software Infrastructure for Teachers: A Missing Link in Integrating Technology with Instruction. Paper presented at the 2005? International Conference on Education and Information Technology, Kee-Lung, Taiwan.

Sung, Y. T., Chang, K. E., & Lee, M. D. (2005). Playing to learn: Multimedia games for young children's taxonomic concept development. Paper presented at the 2005? International Conference on Education and Information Technology, Kee-Lung, Taiwan.

Sung, Y. T., & Chang, K. E. (2005). Examining teachers' reflection, social interaction, and professional development in digital teaching portfolios. Paper presented at the 2005? International Conference on Education and Information Technology, Kee-Lung, Taiwan.

Sung, Y. T., Huang, C. C., & Chang, K. E. (2006). The design and application of a mobile devices-based real time formative assessment system. Paper presented at the IADIS International Conference Mobile Learning, July, 13-16, Dublin.

Sung, Y. T., & Chang, K. E. (2006). Enhancing teachers' learning and reflection through digital portfolios with multiple aids. Paper presented at the 2006 Annual Conference of Asia-Pacific Educational Research Association. November, 5-7, Hong-Kong.