

# YANGHEE KIM

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## EDUCATION

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*Florida State University* Tallahassee, FL  
**Ph. D.** in Educational Psychology and Learning Systems.  
Dissertation Chair: Amy L. Baylor  
Dissertation Title: Pedagogical Agents as Learning Companions: The Effects of Affect and Gender on Learning, Interest, Self-efficacy, and Agent persona.  
**Certificate** in Measurement and Statistics 2004  
**M.A.** in Instructional Systems 2001  
**Certificate** in Human Resource Development 2001

*Carnegie-Mellon University* Pittsburgh, PA  
**Certificate** of CIRCLE Workshop on Intelligent Tutoring Systems Summer, 2003

*Chonnam National University* Kwangju, Korea  
**M. A.** in Instructional Technology 1998  
Thesis Advisor: Hoisoo Kim  
Thesis Title: The Effects of Design Methods (Program-control vs. Learner-control vs. Hypermedia) and Metacognition (High vs. Low) on Achievement and Attitude in a Multimedia-Based Learning Environment  
**B.A.** in Teaching English as a Foreign Language 1987

## ACADEMIC EMPLOYMENT

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*Utah State University* Logan, UT  
Assistant Professor, Dept. of Instructional Technology August, 2004 - Present

*Florida State University* Tallahassee, FL  
Research Assistant, Pedagogical Agent Learning Systems Lab. Fall, 2002 – Summer, 2004  
Team leader of 10 graduate assistants in the lab funded by NSF: design research, develop pedagogical agents, coordinate experiments, analyze data, and write papers.

Teaching Assistant, Instructional Systems. Spring & Summer, 2002

Teach pre-service teachers Introduction to Educational technology.

Research Assistant, Learning Systems Institute. 2001  
Develop instructional strategies integrated into an electronic performance support system for Navy instructors.

Research Assistant, Student Assessments in Leon County School District. 2000  
Analyze and report the results of Florida standardized tests (FCAT) of math & reading comprehension of K-12 students.

### **OTHER PROFESSIONAL EXPERIENCE**

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Teacher, Teaching English in middle and high schools, Korea. 1987 – Spring, 2000

Teacher Trainer, Kwangju Teacher Training Center, Korea. 1995 – Spring, 2000  
Teach in-service teachers how to incorporate educational technology into K-12 classrooms of varying subject matters: introduce to advanced courseware development tools and the strategies to use the tools for instructional development aligned with instructional objectives and contents.

Multimedia Courseware Designer 1996 – 2000  
Design courseware teaching various subjects to middle and high school students.

### **AWARD/HONOR**

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Who's Who in American Education 2007-2008

Cambridge Who's Who 2006-2007

USHE Retention Initiative Award, by Utah State University. 2005-2006

ETR&D Young Scholar Award, By Association for Educational Communications and Technology. 2005

Gagne-Briggs Outstanding Doctoral Student Award, By Department of Educational Psychology and Learning Systems at Florida State University. 2004

Ruby Diamond Future Professor Award, By Department of Educational Psychology and Learning Systems at Florida State University. 2004

Liliana Mulhman Masoner Outstanding International Student Award, By Department of Educational Psychology and Learning Systems at Florida State University. 2004

ECT Foundation Mentorship Endowment Scholarship. By Association for Educational Communications and Technology (AECT). 2003

Tuition Scholarship. Florida State University.	2000 - 2003
Teacher of the Year. By the National English Teachers' Association, Korea.	1999
Bronze Medal for Multimedia Design & Development. By the Superintendent of Kwangju School District, Korea. Multimedia courseware teaching reading comprehension, Developed by using Macromedia Authorware.	1998
Gold Medal for Multimedia Design & Development. By Ssangyong Information and Communication Corp, Korea. Multimedia courseware teaching English vocabularies of job titles, Developed by using Asymetrix Toolbox.	1997
Gold Medal for Multimedia Design & Development. By the Superintendent of Kwangju School District, Korea. Multimedia courseware teaching travelers' English, Developed by using Asymetrix Toolbox.	1997
Tuition Scholarship. Chonnam National University.	1996 - 1998
Graduate Honors. Chonnam National University, Korea.	1987
Honor Fellowship, Chonnam National University, Korea.	1983-1986

## **RESEARCH INTERESTS**

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Virtual learning environments  
 Human/computer interaction focusing on anthropomorphized interface  
 Social cognitive theories of learning  
 Systematic design of instruction  
 Math and literacy education in K-12 settings

## **SCHOLARLY PUBLICATIONS AND ACTIVITIES**

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### **Referreed Journal Articles**

Kim, Y., Baylor, A. L., Shen, E., & PALS Group (2007). Pedagogical agents as learning companions: The impact of agent affect and gender. *Journal of Computer-Assisted Learning*, 23(03), 220-234.

Kim, Y. (in press). Desirable characteristics of learning companions. *International Journal of Artificial Intelligence in Education*.

Kim, Y., & Baylor, A. L. (2007). Pedagogical agents as social models to influence learner attitudes. *Educational Technology*, 47(01), 23-28.

Kim, Y., & Baylor, A. L. (2006). A social cognitive framework for designing pedagogical agents as learning companions. *Educational Technology Research and Development* 54(06), 569-596. Paper **awarded 2005 Young Scholar Award** by Association for Educational Communications and Technology (AECT).

Kim, Y., & Baylor, A. L. (2006). Pedagogical agents as learning companions: The role of agent competency and type of interaction. *Educational Technology Research and Development*, 54(03), 223-243.

Kim, Y., Punahm, P., & Ko, Y. (2006). Content-based English learning through pedagogical agents. *English Teaching*, 61(04), 229-246. The flag journal of the Korean research community of Teaching English as a Foreign Language (TEFL).

Baylor, A. L., & Kim, Y. (2005). Simulating instructional roles through pedagogical agents. *International Journal of Artificial Intelligence in Education*, 15, 95-115.

### **Book Chapters**

Kim, Y. (2005). Pedagogical agents as learning companions: Building social relations with learners. In C. K. Looi, G. McCalla, B. Bredeweg & J. Breuker (Eds.), *Artificial intelligence in education: Supporting learning through intelligent and socially informed technology* (Vol. 125, pp. 362-369). Amsterdam, The Netherlands: IOS Press.

### **Peer-Reviewed Presentations**

Kim, Y., Xu, B., & Wei, Q. (2007). *Virtual Peers Scaffold Motivation to Learn*. Workshop on Modeling and Scaffolding Affective Experiences to Impact learning in the 13<sup>th</sup> International Conference on Artificial Intelligence in Education (AIED 2007): Los Angeles, CA. 9-13, 2007.

Kim, Y., Wei, Q., Xu, B., Ko, Y., & Ilieva, V. (2007). *MathGirls: Increasing Girls' Positive Attitudes and Self-Efficacy through Pedagogical Agents*. Paper **nominated for Best Paper Award** at the 13<sup>th</sup> International Conference on Artificial Intelligence in Education (AIED 2007): Los Angeles, CA. July 9-13, 2007.

Kim, Y., Xu, B., Wei, Q., & Ko, Y. (2007). *MathGirls: Virtual peers as change agents to improve girls' math self-efficacy and math attitudes*. The Annual Conference of American Educational Research Association (AERA): Chicago, IL. April 9-13, 2007.

Kim, Y., Xu, B., Wei, Q., & Ko, Y. (2007). *Creating social affable learning environments*. The 18<sup>th</sup> International Conference of Society for Information Technology & Teacher Education (SITE): San Antonio, TX. March 26-30, 2007.

Kim, Y., & Wei, Q. (2006). *Virtual peers help increase learner self-efficacy*. ED-MEDIA: The World Conference on Educational Multimedia, Hypermedia, and Telecommunication: Orlando, FL. June 26-30, 2006.

Kim, Y., Flann, N., Wei, Q., Ko, Y., & Alla, S. (2006). *MathGirls: Motivating girls to learn math through pedagogical agents*. ED-MEDIA: The World Conference on Educational Multimedia, Hypermedia, and Telecommunication: Orlando, FL. June 26-30, 2006.

Kim, Y., Hamilton, E. R., Zheng, J., & Baylor, A. L. (2006). *Scaffolding learner motivation through a virtual peer*. The 7<sup>th</sup> International Conference of the Learning Sciences (ICLS): Bloomington, IN. June 27- July 1, 2006.

Kim, Y. & Hamilton, E. R. (2006). *A virtual peer can enhance learner self-efficacy*. The Annual Conference of American Educational Research Association (AERA): San Francisco, CA. April 7-11, 2006.

Hamilton, E. R., Kim, Y., & Lee, L. (2006). *Towards a social-cognitive framework for next-generation networked and hybrid pedagogical agent systems*. The Annual Conference of American Educational Research Association (AERA): San Francisco, CA. April 7-11, 2006.

Kim Y. (2005). *Virtual PALs: Will emotion and gender influence learning?* The Annual Conference of Association for Educational Communications and Technology (AECT): Orlando, Florida. October 18-22, 2005.

Kim Y., & Quan Wei (2005). *Reducing math anxiety through virtual PALs*. The Annual Conference of Association for Educational Communications and Technology (AECT): Orlando, Florida. October 18-22, 2005.

Kim, Y. (2005). *Empathetic virtual peers enhanced learner interest and self-efficacy*. Workshop on Motivation and Affect in Educational Software in the 12<sup>th</sup> International Conference on Artificial Intelligence in Education (AIED 2005): Amsterdam, The Netherlands. July 18-22, 2005.

Kim, Y. (2005). *PALs: Building Social Relations with Learners*. The 12<sup>th</sup> International Conference on Artificial Intelligence in Education (AIED 2005): Amsterdam, The Netherlands. July 18-22, 2005.

Kim, Y. (2005). *Learners' expectations of the desirable characteristics of virtual learning companions*. The Annual Conference of Autonomous Agents and Multiagent Systems (AAMAS): Utrecht, The Netherlands. July 25-29, 2005.

Kim, Y. & Baylor, A. L. (2005). *Pedagogical Agents as Learning Companions: Building Empathetic Relationships with Learners*. The Annual Conference of American Educational

Research Association (AERA): Montreal, Canada. April 11-15, 2005.

Kim, Y. & Baylor, A. L. (2005). *The Impact of Effective Expression and Gender of a Learning Companion*. The Annual Conference of American Educational Research Association (AERA): Montreal, Canada. April 11-15, 2005.

Kim Y., Baylor, A. L., & Reed, G. (2004). *Pedagogical agents' personas: Which affects more, image or voice?* The Annual Conference of Association for Educational Communications and Technology (AECT): Chicago, California. October 19-23, 2004.

Kim, Y. (2004). *The impact of the affect and gender of a learning companion on learning outcomes*. Instructional Technology Institute: Logan, UT. September 1-3, 2004.

Kim, Y. (2004). *Affect and gender of pedagogical agents as learning companions*. Dissertation study presented at the Division C Graduate Seminar of the Annual Conference of American Educational Research Association (AERA): San Diego, CA. April 12-16, 2004.

Kim, Y. (2004). *Learners' expectations on the desirable characteristics of learning companions*. The Annual Conference of American Educational Research Association (AERA): San Diego, CA. April 12-16, 2004.

Kim, Y. (2004). *Designing pedagogical agents as learning companions: The role of competency and interaction type*. The Annual Conference of American Educational Research Association (AERA): San Diego, CA. April 12-16, 2004.

Baylor, A. L. & Kim, Y. (2004). *Pedagogical agent design: The impact of agent realism, gender, ethnicity, and instructional role*. ITS 2004, the 7<sup>th</sup> International Conference in Intelligent Tutoring Systems: Maceió – Alagoas, Brasil. August 30-September 3, 2004.

Kim, Y. (2003). *Things that make pedagogical agents as learning companions effective*. E-Learn, the Annual Conference of Association for the Advancement of Computing in Education: Phoenix, Arizona. November 7-11, 2003.

Kim, Y. (2003). *Pedagogical agents as learning companions: Its constituents and implications*. E-Learn, the Annual Conference of Association for the Advancement of Computing in Education: Phoenix, Arizona. November 7-11, 2003.

Kim Y., Baylor, A. L., & Reed, G. (2003). *The impact of image and voice of pedagogical agents*. E-Learn, the Annual Conference of Association for the Advancement of Computing in Education: Phoenix, Arizona. November 7-11, 2003.

Baylor, A. L., & Kim, Y. (2003). *The role of gender and ethnicity in pedagogical agent perception*. E-Learn, the Annual Conference of Association for the Advancement of Computing in Education: Phoenix, Arizona. November 7-11, 2003.

Kim, Y. (2003). *Designing learning companions to achieve greater effectiveness*. The Annual Conference of Association for Educational Communications and Technology (AECT): Anaheim, California. October 22-26, 2003.

Kim, Y. (2003). *An agent as a learning companion: What it matters*. The Annual Conference of Association for Educational Communications and Technology (AECT): Anaheim, California. October 22-26, 2003.

Baylor, A. L., & Kim Y. (2003). *Design features for developing pedagogical agents as experts, motivators, and mentors: A validation study*. The Annual Conference of Association for Educational Communications and Technology (AECT): Anaheim, California. October 22-26, 2003.

Kim, Y. (2003). *Designing agents as learning companions: Its educational value and potential*. The Annual Conference of ED-Media: Honolulu, Hawaii. June 23-28, 2003.

Kim, Y., & Shen, E (2003). *The effects of competency and type of interaction of agents as learning companions on agent value, motivation, and learning*. The Annual Conference of ED-Media: Honolulu, Hawaii. June 23-28, 2003.

Baylor, A. L., & Kim, Y. (2003). *Three pedagogical agent roles: Designing, developing, and validating agent as expert, motivator, and mentors*. Annual Conference of ED-Media: Honolulu, Hawaii. June 23-28, 2003.

Driscoll, M., Kim, Y., Suh, S., Lee, Y., & Gao, H. (2002). *What is AECT really about? A content analysis of the convention program over the past five years*. The Annual Conference of Association for Educational Communication & Technology (AECT): Dallas, Texas. November 12-17, 2002.

Kim, Y. (2000). *Web-based instruction for improving reading comprehension skills*. The Annual Conference of International Association of Teachers of English as a Foreign Language (IATEFL). Dublin, Ireland. March, 2000.

Kim, Y. (1999). *Developing foreign language skills via on-line chatting*. The International Conference of Teachers of English as a Foreign Language, Seoul, Korea. June, 1999.

### **Grants Successful**

The National Science Foundation Research Grant on Gender in Science and Engineering (Grant # 051503), \$499,991. **PI.** 2005 – 2008

Utah State University Community/University Research Initiative (CURI) Grant, \$27,985. **PI.** 2006 - 2007

Utah State University New Faculty Grant, \$11,800. **PI.** 2005 - 2006

The National Science Foundation Research Grant on Women in Engineering, \$500,000. **A member of the grant writing team** in Pedagogical Agent Learning Systems Lab at Florida State University. 2004 – 2007

School Development Project, funded by Korean Department of Education in Korea, \$50,000. **PI.** 1999 – 2000

Development of instructional strategies for technology-enhanced learning environments, funded by Department of Education in Korea, \$40,000. **PI.** 1998 & 1999

### **Grants Submitted**

The National Science Foundation Research Grant on Discovery Research K-12 (Solicitation: 06-593), **PI.** (Declined) Mar 21, 2007

The Department of Education – Steppingstones of Technology Innovation for Children with Disabilities, **PI.** (Declined) Oct 3, 2006

The Institute of Education Sciences on Cognition and Student Learning, 2006-2009, **PI.** (Declined) Nov 3, 2005

The National Science Foundation Research Grant on Instructional Material Development, 2006 – 2009, Preliminary proposal, **PI.** (Declined) Nov 15, 2005

The Microsoft New Faculty Grant, **PI** (Declined). Nov, 2004

### **SCHOLARLY ASSOCIATION**

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Membership in Association of Educational Communications and Technology (AECT).

Membership in American Educational Research Association (AERA).

Membership in Association for the Advancement of Computing in Education (AACE).

Membership in the International Artificial Intelligence in Education Society (AIED).

Membership in Honor Society of Phi Kappa Phi.