

IKSEON (IKE) CHOI2 November 2009

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 Case-based e-learning research group URL: <http://projects.coe.uga.edu/cbel/>

EDUCATION

B.A.	Education	Chung-Ang University, Seoul	1992
M.Ed.	Educational Psychology	Chung-Ang University, Seoul	1996
Ph.D.	Instructional Systems	Penn State University, University Park	2002

SELECTED PROFESSIONAL APPOINTMENTS

Associate Professor (60% teaching; 40% research; Tenured), Department of Educational Psychology and Instructional Technology, The University of Georgia, Athens, GA. (2009 – present)

Assistant Professor (60% teaching; 40% research; Tenure-Track), Department of Educational Psychology and Instructional Technology, The University of Georgia, Athens, GA. (2003 – 2009)

Affiliate Member, Faculty of Engineering, The University of Georgia, Athens, GA. (2007 – present)

Assistant Professor (Tenure-Track), Department of Instructional Technology and Telecommunications, Western Illinois University, Macomb, IL. (2001-2002)

Graduate Lecturer, Instructional Systems, The Pennsylvania State University, State College, (1999, June-August)

Graduate Assistant, Penn State University, University Park, PA. (1997-2001)

Researcher, Policy & Basic Research Team, Center for Educational Multimedia Research & Development, An Annex of the Korean Educational Development Institute (KEDI), Seoul, Korea. (1996)

Researcher, Research Center of Korean Youth Culture, Seoul, Korea (Specialized in the area of information society and youth culture). (1993-1995)

RESEARCH & PUBLICATION

Research Areas of Interest

- The nature and the processes of ill-defined, complex, real-world problem solving under uncertainty
- Individual and environmental factors influencing learning and real-world problem solving (e.g., epistemic belief, adaptive expertise, argumentation/justification skills, metacognition/reflection, etc.)
- Case-based e-learning environments promoting learning how to solve real-world problems (design, development, and implementation models)
- Informatics and technology to develop dynamic learning resources and scaffolding tools for real-world problem solving
- Cognitive task analysis methods and tools for real-world problem solving

Dissertation/Theses

Choi, I. (2002). *Effects of on-line peer-challenge support on learning during on-line small group discussion*. Doctoral Dissertation, The Pennsylvania State University, University Park, PA. Retrieved from <http://etda.libraries.psu.edu/theses/available/etd-0712102-211229/>

Choi, I. (1996). *A study on the relationship between the levels of fidelity of computer-based instructional simulation (CBIS) and transfer of learning for different instructional levels* (Korean). Unpublished Master's Thesis, Seoul: Chung-Ang University.

Journal Articles (*peer reviewed, **invited)

Choi, I., Lee, S., & Kang, J. (2009). Implementing a case-based e-learning environment in a lecture-oriented anesthesiology class: Do learning styles matter on complex problem solving over time? *British Journal of Educational Technology*, 40, 933-947. *

Choi, I. (2009). A case-based e-learning framework for real-world problem solving: Implications for human resources development. *Journal of Korean HRD Research*, 4(1), 53-71**

Choi, I., & Lee, K. (2009). Designing and implementing case-based learning environments for enhancing ill-structured problem solving skills: Classroom management problems for prospective teachers. *Educational Technology Research & Development*, 57, 99-129. *

Choi, I., Land, S., & Turgeon, A. (2008). Instructor modeling and online guidance for peer questioning during online discussion. *Journal of Educational Technology Systems*, 36, 255-275. *

Choi, I., Lee, S., & Jung, J. (2008). Designing multimedia case-based instruction accommodating students' diverse learning styles. *Journal of Educational Multimedia and Hypermedia*, 17, 5-25. *

Lee, K., & Choi, I. (2008). Learning classroom management through Web-based case instruction: Implications for early childhood teacher education. *Early Childhood Education Journal*, 35, 495-503. *

Choi, I., & Lee, K. (2008). A case-based learning environment design for real-world classroom management problem solving. *TechTrends*, 52(3), 26-31. **

Choi, I. (2008). Faculty evaluation culture in Korean universities: Cultivating a horizontal and interactive evaluation culture (Korean). *Forum for Youth Culture, 18*, 261-270. **

Choi, I. (2008). Reflecting the power of the magic medallion. *TechTrends, 52*(2), 12. **

Hirumi, A., Miller, C., Hooper, S., Choi, I., Brush, T., Saye, J., Doering, A., Reese, D. D., & Kim, Y. (2008). Showcased: Innovative training and educational programs. *TechTrends, 52*(1), 34-38. **

Choi, I. (2007). Toward strategic human resource development (SHRD): Bridging the gap between e-learning and performance through improving learning transfer (Korean). *Journal of Korean HRD Research, 2*(1), 73-90. **

Land, S., Choi, I., & Ge, X. (2007). Scaffolding online discussions to promote reflection and revision of understanding. *International Journal of Instructional Media, 34*, 409-418. *

Choi, I. (2006). Renovating instructional methods with new technology for enhancing HRD (Human Resource Development) graduate school education: Balancing contextual, theoretical, and technical dimensions (Korean). *Journal of Korean HRD Research, 1*(1), 103-127. *

Choi, I., Land, S., & Turgeon, A. (2005). Scaffolding peer-questioning strategies to facilitate metacognition during online small group discussion. *Instructional Science, 33*, 367-379. *

Carr-Chellman, A., Choi, I., & Hernández-Serrano, J. (2001). An early tool to simulate the impact of web-based learning on the university. *Quarterly Review of Distance Education, 2*, 157-167. *

Brill, J., Choi, I., Glazer, E., Ge, X., & Ku, H. (2001). Reflections from the intern experience. *TechTrends, 45* (1), 19-23. **

Choi, I., & Jonassen, D. H. (2000). Learning objectives from the perspective of the experienced cognition framework. *Educational Technology, 40* (6), 36-40.

Book Chapters (or Book Translations)

Blackmon, M., Hong, Y., & Choi, I. (2007). Case-Based Learning. In M. Orey (Ed.), *Emerging perspectives on learning, teaching, and technology*. Retrieved from <http://projects.coe.uga.edu/epltt>

Choi, I., Kim, H., Jung, J. W., Clinton, G., & Kang, J. (2006). A case-based e-learning model for professional education: Anesthesiology for dental students. In M. Orey, V. J. McClendon, & R. M. Branch (Eds.), *Educational media and technology yearbook 2006* (Vol. 27, pp. 109-118). Englewood, CO: Libraries Unlimited.

Choi, I., & Land, S. M. (2004). A project description of CoNet-C: An online discussion tool to support case-based instruction. In A. Kovalchick & K. Dawson (Eds.), *Educational technology: An encyclopedia* (pp. 121-126). Santa Barbara, CA: ABC-CLIO.

Jonassen, D. H., Hernández-Serrano, J., & Choi, I. (2000). Integrating constructivism and learning technologies. In M. Spector & T. M. Anderson (Eds.), *Integrated and holistic*

perspective on learning, instruction and technology: Understanding complexity (pp. 103-128). Berlin: Kluwer.

Kim, J. An, D., Choi, I., Park, J., & Song, M. (1994). *Juran on Quality by Design*. Trans. Seoul: 21-Century Books. (Translation into Korean, Original work by J. M. Juran, 1992).

Manuscripts in Review

Hong, Y. C., & Choi, I., (2009). *Three dimensions of reflective thinking in solving design problems: A conceptual framework*.

Manuscripts in Progress

Choi, I. (2009). *Predictors of successful multimedia case-based learning for complex problem solving: Domain knowledge, epistemic belief, metacognition, and learning style*. Manuscript in preparation.

Choi, I. (2009). *An on-going hybrid cognitive task analysis for dynamic decision-making skills in the process of developing case-based learning environments*. Manuscript in preparation.

Choi, I. (2009). *An e-learning design model for training in dynamic decision-making skills: Three types of knowledge integration model*. Manuscript in preparation.

Proceedings (*Also listed under Conference Presentations; + Also listed under journal articles)

Choi, I. (2008). Case-based e-learning for real-world problem solving. *Proceedings of Global HR Forum 2008: Creative Talents for Global Collaboration (Special Stream Session I)* (pp. 67-88). Seoul: Chung-Ang University. *+

Choi, I. (2007). Toward strategic human resource development (SHRD): Bridging the gap between e-learning and performance through improving learning transfer (Korean). In Korean Human Resource Development Strategic Research Center (Ed.), *Strategic human resource development in a global world* (pp. 135-153). Seoul: Chung-Ang University.*+

Choi, I., & Lee, K. (2006). A case-based e-learning environment for facilitating ill-structured problem solving skills: Classroom management. In T. Reeves & S. Yamashita (Eds.), *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2006* (pp. 1894-1901). Chesapeake, VA: AACE.*

Choi, I., Lee, S., & Jung, J. (2006). Students' perceived benefits of case-based e-learning according to their learning styles. In T. Reeves & S. Yamashita (Eds.), *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2006* (pp.1902-1909). Chesapeake, VA: AACE. *+

Choi, I. (2005). How to improve instructional methods for training in complex problem solving skills in Human Resource Development Graduate School (Korean). In Korean Human Resource Development Strategic Research Center (Ed.), *The International Seminar on Human Resource Development: Directions and Challenges of Human Resource Development Graduate School Education* (pp. 97-113). Seoul: Chung-Ang University. *+

Choi, I., Kang, J., Kim, H., Jung, J. W., & Clinton, G. (2004). A case-based e-learning environment for enhancing dynamic decision-making skills: Anesthesiology. In G. Richards

(Ed.), *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2004* (pp. 1133-1138). Chesapeake, VA: AACE. *

Kim, H., Kang, J., & Choi, I. (2004). Transforming concept-oriented course to case-based e-learning. In G. Richards (Ed.), *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2004* (pp. 98-103). Chesapeake, VA: AACE. *

Choi, I., Kim, H., Kang, J., Jung, J. W., & Clinton, G. (2004). A case-based e-learning model for professional education: Anesthesiology for dental students. In L. Cantoni & C. McLoughlin (Eds.), *Proceedings of World Conference on Educational Multimedia, Hypermedia and Telecommunications 2004* (pp. 1285-1292). Chesapeake, VA: AACE.*+

Choi, I., Land, S., & Turgeon, A. (2001). Effects of on-line peer-challenge support on learning during on-line small group discussion. In M. Crawford & M. Simonson (Eds.), *Annual proceedings of selected research and development papers presented at the 2001 National Convention of the Association for Educational Communications & Technology: Vol. 1.* (pp. 69-73). North Miami Beach, FL: Nova Southeastern University.*

Carr-Chellman, A., Choi, I., & Hernández-Serrano, J. (2000). Simulating the impact of web-based learning on the university. In K. King & R. Ferro (Eds.), *Proceedings of the Eastern Regional Adult Education Research Conference* (pp. 35-40). University Park, Pennsylvania State University. *+

Choi, I. (1998). Optimal shifting of fidelity levels in computer-based instructional simulation. In N. Maushak & C. Schlosser (Eds.), *Annual proceedings of selected research and development papers presented at the 1998 National Convention of the Association for Educational Communications & Technology* (pp. 89-93). North Miami Beach, FL: Nova Southeastern University. (ERIC Document Reproduction Service No. ED 423829) *

Technical Reports (or Reports Submitted to Sponsors)

Lee, H., Choi, I., et al. (2007). *Building a global experts DB in HRD area*. Chung-Ang University.

Choi, I. (2005). *A case-based e-learning environment and its implementation in a Korean dental school-Anesthesiology*. The University of Georgia.

Lee, K., & Choi, I. (2005). *Developing and implementing Web-based case learning for early childhood teacher education*. A research report submitted to the Clarke County School District Grants and Research Office, Athens, GA.

Choi, I., Shin, N., Song, L., Oh, S., Martin, J., & Kirby, J. (2004, April). *Building argumentation skills through scaffolding peer-challenge and self-monitoring in the Foundations of Freedom™-Integrated History Classroom*. Wheeling, WV: Wheeling Jesuit University, Center for Educational Technologies®.

Choi, I., Kim, H., Jung, J. W., & Clinton, G. (2004, March). *A case-based e-learning model for Anesthesiology for dental school students* (Interim Technical Report). Seoul, Korea: Educate Co., Ltd.

Choi, I. (Advisor, Jonassen, D. H.) (2000, January). *Framework for automatic generation of personalized query interfaces to information systems: Adaptive query interfaces based on task differences*. Unpublished final report made to Raytheon Systems Company, State College, PA.

Yim, Y., Jo, M., Bang, M., & Choi, I. (1996). *Analysis on current status of computer education in primary and secondary schools* (Korean). RR 96-9. Seoul: Korean Educational Development Institute.

Kim, S., Yim, Y., Hu, T., Lee, B., Jo, D., & Choi, I. (1996). *Projection of changes in school scales and policy plans: From 1996 to 2021* (Korean). Seoul: The Korean Federation of Teachers' Association.

Kim, O., Choi, I., Lee, K., & Byon, J. (1995). *A policy plan for Korean youth culture toward the information society: Concerning computer games and bulletin board systems* (Korean). Seoul: The Korean Ministry of Culture & Exercise. (Research Center of Korean Youth Culture).

Kim, O., Choi, I., & Park, H. (1994). *Computer and youth culture: How teenagers are exposed to pornography and what are its negative effects* (Korean). Seoul: Research Center of Korean Youth Culture.

Hong, S., Kim, W., & Choi, I. (1992). *Evaluation of traffic safety training program* (Korean). Seoul: Road Traffic Safety Association.

Choi, I., et al. (1988). *A classification of master's & doctoral dissertations on education in Korea: 1945-1988* (Korean). Seoul: Department of Education, Chung-Ang University.

Invited Presentations or Lectures

Choi, I. (2009, October). *Case-based e-learning: A middle ground between didactic lecture and problem-based learning*. Invited lecture at a medical education seminar. College of Medicine, InJe University, Busan, Korea.

Choi, I. (2009, October). *Case-based e-learning for enhancing college students' real-world problem solving abilities*. Invited lecture at a faculty workshop on Improving Instructional Methods. InJe University, Korea.

Choi, I. (2008, November). *Case-based e-learning for real-world problem solving*. Invited speaker at the Global HR Forum 2008, Seoul, Korea.

Choi, I. (2008, October). *Trends in instructional technology research*. Invited lecture at the Department of Education (Instructional Technology Graduate Program), Chung Ang University, Seoul, Korea.

Choi, I. (2008, March). *Case-based e-learning: Toward real-world problem solving*. Invited lecture at The Graduate School of Human Resource Development, Chung-Ang University, Seoul, Korea.

Choi, I., the Case-Based e-Learning Group, & Lee, K. (2007, October). *A case-based e-learning environment for enhancing ill-structured problem solving skills: Classroom management dilemma problems for prospective teachers*. Invited presentation in the Design and Development Award Winners Presentation Session at the annual conference of the Association for Educational Communications & Technology (AECT), Anaheim, CA.

Lee, K. & Choi, I. (2007, October). *Developing and implementing Web-based case learning for early childhood teacher education*. Invited presentation at 2007 Learning Technologies Showcase sponsored by the Learning Technology Grant Program, the Enterprise Information Technology Services, and the Center for Teaching and Learning at the University of Georgia, Athens, GA.

Choi, I. (2007, May). *Toward strategic human resource development (SHRD): Bridging the gap between e-learning and performance through improving learning transfer* (Korean). Invited paper presented at the International Seminar on Human Resource Development Sponsored by Chung-Ang University, Seoul, Korea.

Choi, I. (2006, October). *Case-based interactive e-learning systems: Toward real-world problem solving*. Invited speaker at E-Learn 2006, Honolulu, HI.

Choi, I. (2005, November). *How to improve instructional methods for training in complex problem solving skills in Human Resource Development Graduate School* (Korean). Invited paper presented at the International Seminar on Human Resource Development by the Collaboration of Sung-Sil University, In-Ha University, and Chung-Ang University, Seoul, Korea.

Refereed Conference Presentations & Workshops

Hong, Y. C., & Choi, I., (2009, April). *An integrated model of reflective practice for learning and solving design problems*. Paper presented at the annual meeting of the American Education Research Association (AERA), San Diego, California.

Choi, I. (2008, November). *Predictors of successful multimedia case-based learning for complex problem solving: Domain knowledge, epistemic belief, metacognition, and learning style*. Paper presented for the annual conference of the Association for Educational Communications & Technology (AECT), Orlando, FL.

Hong, Y. C., & Choi, I. (2008, November). *A conceptual framework for studying reflective practice in instructional design problems*. Paper presented for the annual conference of the Association for Educational Communications & Technology (AECT), Orlando, FL.

Choi, I., Lee, S., Kang, J., & Hong, Y. C. (2008, March). *The role that students' learning styles plays in complex problem solving over time while implementing a case-based e-learning environment*. Paper presented at the annual meeting of the American Education Research Association (AERA), New York.

Lee, K., & Choi, I. (2008, March). *From disciplinarians to orchestra conductors and to reflective practitioners: Teaching classroom management through case-based pedagogy*. Paper presented at the annual meeting of the American Education Research Association (AERA), New York.

Choi, I., & Lee, K. (2007, October). *Case-based online learning environment for classroom management problem solving*. Poster session (Design & Development Showcase) presented for the annual conference of the Association for Educational Communications & Technology (AECT), Anaheim, CA.

Choi, I., & Lee, K. (2007, April). *Designing and implementing a case-based learning environment for enhancing ill-structured problem solving skills: Classroom management dilemma problems for prospective teachers*. Paper presented at the annual meeting of the American Education Research Association (AERA), Chicago.

- Choi, I., & Lee, K. (2006, October). *A case-based e-learning environment for facilitating ill-structured problem solving skills: Classroom management*. Paper presented at E-Learn 2006, Honolulu, HI.
- Choi, I., Lee, S., & Jung, J. (2006, October). *Students' perceived benefits of case-based e-learning according to their learning styles*. Paper presented at E-Learn 2006, Honolulu, HI.
- Choi, I., Land, S., & Oh, E. (2006, April). *Instructor modeling and online guidance for peer questioning during online discussion*. Paper presented at the annual meeting of the American Education Research Association (AERA), San Francisco, CA.
- Lee, K., & Choi, I. (2006, April). *Learning classroom management through Web-based case instruction: Implications for early childhood teacher education*. Paper presented at the annual meeting of the American Education Research Association (AERA), San Francisco, CA.
- Koszalka, T., Mukerji, K., Bishop, M., Choi, I., Grabowski, B., Reigeluth, C., Persichitte, K., Richey, R., & Wilson, B. (2005, October). *Exploring the vision of technology integration research: Scholars' thoughts on definitions, theories, and methodologies*. Panelist at the annual conference of the Association for Educational Communications & Technology (AECT), Orlando, FL.
- Choi, I., & Jung, J. (2005, October). *A hybrid cognitive task Analysis for dynamic decision-making skills: Developing video-based cases and expert modeling*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Orlando, FL.
- Jung, J., & Choi, I. (2005, October). *Make it smooth!-Framework for analyzing instructional innovation based on activity theory*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Orlando, FL.
- Choi, I., Land, S., Turgeon, A., & Oh, E. (2005, October). *Enhancing peer-questioning and metacognitive strategies during online discussion: Online scaffolding, instructor modeling, and peers' participation levels*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Orlando, FL.
- Choi, I., & Land, S. M. (2005, April). *Scaffolding peer questioning and metacognitive strategies during online discussion*. Paper presented at the annual meeting of the American Education Research Association (AERA), Montreal, Canada.
- Choi, I., Kang, J., Kim, H., Jung, J. W., & Clinton, G. (2004, November). *A case-based e-learning environment for enhancing dynamic decision-making skills: Anesthesiology*. Poster session presented at E-Learn 2004, Washington, DC.
- Kim, H., Kang, J., & Choi, I. (2004, November). *Transforming content-oriented course to case-based e-learning*. Paper presented at E-Learn 2004. Washington, DC.
- Choi, I., Kim, H., Kang, J., Jung, J. W., & Clinton, G. (2004, October). *A case-based e-learning model for medical education: Training in dynamic decision-making*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Chicago.

Clinton, G. Jung, J. W., Kang, J., & Choi, I. (2004, October). *Constraints of computer technology and primacy of human presence: The video affordance*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Chicago.

Choi, I., Kim, H., Kang, J., Jung, J. W., & Clinton, G. (2004, June). *A case-based e-learning model for professional education: Anesthesiology for dental students*. Paper presented at ED Media World Conference on Educational Multimedia, Hypermedia, & Telecommunications, Lugano, Switzerland.

Choi, I., Land, S., & Turgeon, A. (2003, April). *Online support for generating effective peer-challenge during asynchronous online small group discussion*. Paper presented at the annual meeting of the American Education Research Association (AERA), Chicago.

Choi, I., Land, S., & Turgeon, A. (2001, November). *Effects of on-line peer-challenge support on learning during on-line small group discussion*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Atlanta, Georgia.

Carr-Chellman, A., Choi, I., & Hernández-Serrano, J. (2000, March). *Simulating the impact of web-based learning on the university*. Paper presented at the Eastern Regional Adult Education Research Conference, University Park, Pennsylvania.

Land, S., & Choi, I. (2000, February). *Project-based learning with an online collaboration tool: A developmental study*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Long Beach, California.

Choi, I., & Hernández-Serrano, J. (1999). *JavaScript: Building components of learning environments* (One day Workshop). Workshop accepted at the annual conference of the Association for Educational Communications & Technology (AECT), Houston, Texas.

Land, S., Choi, I., Toto, R., Armbruster, A., Lai, T., & Ge, X. (1999). *Social scaffolding in web environments: C-Net*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Houston, Texas.

Choi, I., & Hernández-Serrano, J. (1999). *How to use JavaScript for developing web-based learning environments*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Houston, Texas.

Ge, X., Armbruster, A., Choi, I., Lee, K., Schardt, L., & Tan, S., (1999). *Integrating technology in learning: Constructivist learning environments for technology coordinators*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), Houston, Texas.

Choi, I. (1998). *Optimal shifting of fidelity levels in computer-based instructional simulation*. Paper presented at the annual conference of the Association for Educational Communications & Technology (AECT), St. Louis, Missouri.

Non-Refereed Conference Presentations/Workshops

Rieber, L., Choi, I., & Altalib, S. (2006, March). *eLearning: SCORM, LMSs, & Learning Objects*. Presented at the University of Georgia and Virtual University of Tunis (UGA-UVT) E-learning workshop. University of Georgia, Athens, GA.

Derek A. S., & Choi, I. (2002). *Training decision-making skills for resident assistants via the Internet*. Presented at the Third Annual Tech Fest, Western Illinois University, Macomb, Illinois.

Hernández-Serrano, J., & Choi, I. (1999). *Building on-line learning components with JavaScript*. Presented at the Exploring Learning Technologies Conference, Pennsylvania State University, University Park, Pennsylvania.

Media Interviews

Hains, A. (2006, January 17). Hidden knowledge: Education professor's e-learning program uses technology to overcome barriers in classroom. *Columns*.

Teenagers' misuse of computers (1994). [Television series episode]. In *Call 2580: Magazine for current issues*. Seoul, Korea: Munhwa Broadcasting Corporation.

GRANTS

Grants/Contracts Received

Choi, I., Kellam, N., & Gattie, D. (2009-2011). *Case-based e-learning for solving real-world engineering design problems: Nurturing epistemic growth for second year college students*. Received \$150,000 to National Science Foundation (Course, Curriculum, and Laboratory Improvement-CCLI, 08-546).

Kellam, N., Choi, I., & Gattie, D. (2008-2010). *Preparing engineering students to be global citizens with case-based e-learning technology*. Received \$30,000 from the University of Georgia (Learning Technologies Grants Program).

Choi, I. (2007). *Integrating three types of knowledge to enhance real-world problem solving abilities in the college classroom*. Received \$9,868 from the College of Education at the University of Georgia (Early Career Faculty Grant Program).

Zhang, G., & Choi, I. (2006-2008). *Training innovative engineers in Nanotechnology with multimedia case-based learning*. Received \$24,919 from the University of Georgia (Learning Technologies Grants Program).

Aron, D., & Choi, I. (2005-2007). *Developing multimedia-based case training for small animal orthopedic surgery*. Received \$22,030 from the University of Georgia (Learning Technologies Grants Program).

Choi, I. (2006). *A framework for integrating three types of knowledge to enhance real-world problem solving and its implications for designing technology-enhanced learning environments*. Awarded \$7,156 to the College of Education at the University of Georgia (Early Career Faculty Grant Program)—declined.

Lee, K., & Choi, I. (2004-2006). *Developing and implementing Web-based case learning for early childhood teacher education*. Received \$24,918 from the University of Georgia (Learning Technologies Grants Program).

Choi, I. (2003-2005). *Online case-based learning: Cognitive benefits of online cases in learning and problem solving—Anesthesiology*. Granted \$97,700. Received \$45,772 from Educate Co. Ltd., Seoul, Korea to the University of Georgia.

Choi, I. (1999-2000). *Automatic generation of personalized query interfaces to information systems: Adaptive query interfaces based on task and individual differences*. Received \$30,000 from Raytheon Systems Company (through the Center for Intelligent Information Processing) to Penn State, State College, PA.

Kim, O., & Choi, I. (1994-1995). *A policy plan for Korean youth culture toward the information society: Concerning computer games and bulletin board systems* (Korean). Received \$55,000 from The Korean Ministry of Culture & Exercise to the Research Center of Korean Youth Culture, Seoul, Korea.

Choi, I. (1993). *How teenagers are exposed to pornography and what are its negative effects* (Korean). Received a research fellowship from Research Center of Korean Youth Culture, Seoul, Korea.

Grants/Contracts Submitted but Not Yet Accepted/Awarded

Bhandarkar, S., Li, K., Poon, L. W., Choi, I., Orey, M., Ramaswamy, L. M., (2009-2013). NetSE: Medium: Semantics-driven adaptive video dissemination infrastructure for mobile multimedia. Requested \$1,197,653 to National Science Foundation (CISE Cross-Cutting Programs, 09-558).

Spector, M. J., Choi, I., Cohen, A. S., Hannafin, M. J., & Kim, C. (2010-2013). Measurement and assessment methods and tools for complex problem-solving: Integrating multidisciplinary and international approaches. Requested \$1,426,264 to National Science Foundation (SciSIP, Science of Science and Innovation Policy, PD 09-7626)

Unfunded Grant Proposals

Choi, I., Wicklein, R. C., & Mativo, J. (2009). *Case-based virtual learning for experiencing real-world STEM based problems: Promoting epistemic development and interdisciplinary problem solving ability for high school students*. Requested \$18,954 to the College of Education at the University of Georgia (Support for Large Collaborative Grant Development Program).

Satwicz, T., & Choi, I. (2009). *Collaborative Research: Cyber-Enabled Integration and Conflict Resolution: Reconciling Science, Systems and Sustainability (S³) in Regional Watersheds*. Requested \$486,741 to National Science Foundation (Innovative Technology Experiences for Students and Teachers-ITEST, 09-506).

Yoo, M., Wentland Forte, M., Fernandes, E., & Choi, I. (2004). *An adaptive organization of conceptual micro-agents on the Semantic Web: A novel approach to the study of handling virtual, dynamic organization of learning ontology*. Requested \$140,666 (176,892 CHF) to the Swiss National Foundation.

Choi, I., Kim, B., & Hay, K. (2004). *Development, implementation, and diffusion of inquiry-based learning through virtual outer space exploration camps*. Requested \$68,086 to the Korea Science Foundation.

Choi, I. (2003). *Effective online discussion strategy for enhancing online college instruction: Online Turfgrass Management classes*. Requested \$8,480 to the University of Georgia Research Foundation (Faculty Research Grant Program).

Other Experience with Grants or Funded Research

Lee, H. S., et al. (2007). *Future education in Korea*. Submitted through Chung-Ang University. Awarded \$100,000 from the Korean Ministry of Education & Human Resources Development. (Role: co-researcher)

Member of Engineering Education Research Group (EERG). The University of Georgia. (2007-present).

- EERG (2007, Sep. 28). *STEM (Science, Technology, Engineering, and Mathematics) Teaching & Learning*. Board of Regents Enhancement Request for FY 2009. (Requested \$4,302,000).
- EERG (2008, Feb. 15). *We engineer—I engineer*. A Letter of Intent (LOI) submitted to the Innovative Technology Experiences for Students and Teachers (ITEST) program, National Science Foundation.

AWARDS AND HONORS

D&D Outstanding Service Award (2009, October). Design & Development Division at the annual conference of the Association for Educational Communications & Technology (AECT), Anaheim, California.

D&D Outstanding Practice Award (2007, October). Design & Development Division at the annual conference of the Association for Educational Communications & Technology (AECT), Anaheim, California.

D&D Showcase Award (2007, October). Design & Development Division at the annual conference of the Association for Educational Communications & Technology (AECT), Anaheim, California.

D&D Outstanding Practice Award (2005, October). Design & Development Division at the annual conference of the Association for Educational Communications & Technology (AECT), Orlando, Florida.

Cochran Internship (2000, October). ECT Foundation at the annual conference of the Association for Educational Communications & Technology (AECT), Denver, Colorado.

Graham Fellowship (1998 - 2001), The Pennsylvania State University.

Mark Davidson Travel award to attend AECT Conference (February 1999). Funding: Instructional Systems Program, The Pennsylvania State University.

Membership (1998). Pi Lambda Theta International Honor Society and Professional Association in Education.

Distinguished Graduate Scholarship (1993). Chung-Ang University.

Harold Lady Outstanding Student Award (1992). Graduation Commencement, Chung-Ang University.

Outstanding Student Scholarship (1990). Chung-Ang University.

A Certificate of Merit in the 1st National Contest of Personal Computer Programming (1984). Korean Institute of Science & Technology.

SELECTED MEDIA DEVELOPMENTS

Choi, I. (Director & instructional designer), Hong, Y. (Project manager & instructional designer), Kellam, N. (Subject matter expert), & Gattie, D. (Subject matter expert). *Real world engineering: A case-based e-learning environment for engineering design problem solving (prototype 2008)*. The University of Georgia.

Choi, I. (Co-director & instructional designer), & Lee, K. (Co-director & subject matter expert) (2005-2006). *A case-based e-learning environment for dilemma problem solving--Classroom management course* (ver. 2005a, 2005b, 2006). The University of Georgia.
(<http://projects.coe.uga.edu/ikechoi/cm PSDemo/>)

Choi, I. (Director and instructional designer), & Kang, J. (Subject matter expert) (2004-2005). *A case-based e-learning environment for Anesthesiology* (ver. 2004, 2005). The University of Georgia and Yonsei University College of Dentistry.
(<http://projects.coe.uga.edu/cbel/AnesthesiologytutorialEN/>)

Land, S. (Advisor), Turgeon, A. (Supervisor), & Choi, I. (Designer/Programmer) (2000). *Collaboration, Negotiation, and Evaluation Tool for Case-based learning (CoNet-C, ver. 1.x)*. [An internet-based instructional tool developed with HTML, JavaScript, Internet Database Connection, Active Server Page, Structured Query Language]. University Park, Instructional Systems Program & Turfgrass Management Program, Pennsylvania State University.

Choi, I., & Hernández-Serrano, J. (2000). *A simulation to project Web-based learning diffusion in a university setting*. University Park, Instructional Systems, Pennsylvania State University.

Land, S. (Project Director/Researcher/Designer), & Choi, I. (Researcher/Designer /Programmer) (1999, 2000). *Collaboration, Negotiation, and Evaluation Tool for Project-based learning (CoNet, ver. 1.x - 2.x)*. [An internet-based instructional tool developed with HTML, JavaScript, Internet Database Connection, Active Server Page, Structural Query Language]. University Park, PA: Instructional Systems Program, Pennsylvania State University.

Choi, I. (Designer/Programmer/Subject Matter Expert), & Hernández-Serrano, J. (Designer/Programmer/ Subject Matter Expert) (1999). *Expert systems: JavaScript expert debugger*. [On-line software developed with HTML, JavaScript, Structured Query Language, Internet Database Connection; Performance & learning support tool]. Pennsylvania State University.

Choi, I. (Designer/Programmer), Hernández-Serrano, J. (Designer/Programmer), Calaric, S. (Designer/Content Expert) (1999). *Case library for turfgrass management*. [On-line software developed with HTML, JavaScript, Structured Query Language, Internet Database Connection; Performance & learning support tool]. The Pennsylvania State University.

Choi, I. (Project Directing Consultant/Instructional Designer), et al. (1996). *Solving ethical dilemmas in business*. [A two-week, intranet, multimedia-based industrial training program]. Seoul: LG Caltex Co., Ltd. & Educational Information System Co., Ltd.

Choi, I. (Project Manager/Instructional Designer), et al. (1996). *Distance learning system for high school students in Korean Education Network*. [Tenth & eleventh grade *Korean, English, & Math*; Covered two-year curriculum; Audio & text-based on-line instruction]. Seoul: Korean Educational Development Institute An Annex Center for Educational Multimedia Research & Development.

TEACHING

Since joining the University of Georgia in 2003, I have taught 26 courses (seven different preparations). Learner evaluations in the courses range from 3.77 to 4.91 (unweighted $M=4.38$) for overall value of the course and 3.71 to 4.91 (unweighted $M=4.27$) for teaching ability.

Learner comments, gathered from online course evaluations, have generally been positive.

Term	Course Prefix	Course Title	C	N	Course Evaluation
Spring 2003	EDIT 2000	Introduction to Computers for Teachers	3	20	Overall value: 4.36 Teaching ability: 4.18
Summer 2003	EDIT 2020	Teaching with Technology	3	7	Overall value: 4.66 Teaching ability: 4.60
	EDIT 4160	Design and Development Tools	3	11	Overall value: 4.78 Teaching ability: 4.33
Fall 2003	EDIT 6200	Learning Environments Design I (Team teaching)	3	47	Overall value: 3.77 Teaching ability: 4.04
Spring 2004	EDIT 4210	Learning Environments Design	3	10	Overall value: 4.70 Teaching ability: 4.80
	EDIT 6200	Learning Environments Design I (Team teaching)	3	39	Overall value: 3.96 Teaching ability: 3.71
Summer 2004	EDIT 6150	Introduction to Computer-Based Education (Online)	3	19	Overall value: 4.00 Teaching ability: 4.10
	EDIT 4160	Design and Development Tools	3	12	Overall value: 4.91 Teaching ability: 4.91
Fall 2004	EDIT 4210	Learning Environments Design	3	7	Overall value: 4.71 Teaching ability: 4.71
	EDIT 6200	Design and Development Tools	3	36	Overall value: 4.43 Teaching ability: 4.45
Spring 2005	EDIT 6200	Learning Environments Design I (Team teaching)	3	32	Overall value: 4.10 Teaching ability: 4.13
Summer 2005	EDIT 6150	Introduction to Computer-Based Education (Online)	3	18	Overall value: 4.38 Teaching ability: 4.19
	EDIT 4160	Design and Development Tools	3	12	Overall value: 4.00 Teaching ability: 3.77
Fall 2005	EDIT 4160	Design and Development Tools	3	9	Overall value: 4.22 Teaching ability: 4.22
	EDIT 6200	Learning Environments Design I (Team teaching)	3	36	Overall value: 4.03 Teaching ability: 3.89
Spring 2006	EDIT 6200	Learning Environments Design I (Team teaching)*	3	12	Overall value: 4.57 Teaching ability: 4.00
Summer 2006	EDIT 6150	Introduction to Computer-Based Education (Online)	3	21	Overall value: 4.71 Teaching ability: 4.28
	EDIT 4160	Design and Development Tools	3	6	Overall value: 4.80 Teaching ability: 4.80
Fall 2006	EDIT 6200	Learning Environments Design I	3	13	Overall value: 4.38 Teaching ability: 4.54
Spring 2007	EDIT 6200	Learning Environments Design I	3	10	Overall value: 4.2 Teaching ability: 4.2

Summer 2007	EDIT 6150	Introduction to Computer-Based Education (Online)	3	11	Overall value: 4.45 Teaching ability: 4.27
	EDIT 6150	Introduction to Computer-Based Education (Online)	3	8	Overall value: 4.57 Teaching ability: 4.14
Fall 2007	EDIT 6200	Learning Environments Design I	3	5	Overall value: 4.25 Teaching ability: 3.75
Spring 2008	EDIT 6200	Learning Environments Design I	3	6	Overall value: 4.0 Teaching ability: 4.0
	EDIT 6500	Educational Television Production	3	11	Overall value: 4.0 Teaching ability: 3.89
	EDIT 4500	Educational Television Production	3	4	Overall value: 5.0 Teaching ability: 5.0
Summer 2008	EDIT 6150	Introduction to Computer-Based Education (Online)	3	16	Overall value: 4.0 Teaching ability: 3.4
	EDIT 6150	Introduction to Computer-Based Education (Online)	3	18	Overall value: 4.86 Teaching ability: 4.86
Fall 2008	EDIT 6200	Learning Environments Design I	3	5	Overall Course Evaluation: 4.3 ⁺
	EDIT 6400	Emerging Perspectives on Learning, Teaching, and Technology	3	5	Overall Course Evaluation: 4.6

Note: Scale: 5 = Superior; 4 = Very Good; 3 = Good; 2 = Fair; 1 = Poor

*The course instructors had been evaluated as a team until 2005. However, the instructors have decided that each instructor is evaluated individually since 2006. ⁺Beginning the fall of 2008, a new course evaluation system with 9 items was implemented.

Introduction to Computers for Teachers (EDIT 2000). The computer and its educational applications for preservice teachers. Computer-based education in the areas of instruction, text and data processing, multimedia, and telecommunications.

Teaching with Technology (EDIT 2020). Focuses on creating problem-centered teaching and learning environments using technology. Design and creation of products for learning environments will take place through numerous activities with various technologies.

Design & Development Tools (EDIT 4160). Students learn a variety of tools appropriate for computer-based development. These include graphics, media, and software development tools. Students are required to write a contract for the specific tools to be learned.

Learning Environments Design (EDIT 4210). Contemporary learning theories of the design of interactive environments for information retrieval, learning, and performance support. Students and faculty work in teams to produce interactive environments.

Introduction to Computer-Based Education (EDIT 6150). The computer and its educational applications. Computer-based education in the areas of instruction, text and data processing, multimedia, and telecommunications.

Learning Environments Design I (EDIT 6200). Instructional design, learning theory, project management, and evaluation of interactive learning environments for education and training. Students and faculty work in teams to create the environments.

Emerging Perspectives on Learning, Teaching, and Technology (EDIT 6400). Theoretical and research foundations of emerging perspectives on learning, teaching, and human performance,

with an emphasis on the ways technological environments can be designed to support these areas.

Educational Television Production (EDIT 4500/6500). Design, production, and use of digital and analog video. Laboratory experiences with studio and portable cameras; editing and other equipment suitable for school use.

ACADEMIC ADVISING

Doctoral Program Advisees: 5

Yi-Chun Hong, 2006 – Present (Major advisor)
 Thomas Lechner, 2007 – Present (Co-advisor with Dr. Thomas Reeves)
 Seow Chong Wong, 2008 – Present (Co-advisor with Dr. Thomas Reeves)
 Anita F. Zgambo, 2008 – Present (Co-advisor with Dr. Thomas Reeves)
 Eunbae Lee, 2009 – Present (Major advisor)

Doctoral Dissertation Committee Member: 13

Saun Shewanown, 2005 – 2006	Mi-sook Lee, 2004 – Present
Greg Clinton, 2004 – 2007	David Porcaro, 2008 – Present
Chun-Min Wang, 2004 – 2007	Yan Shen, 2008 – Present
Sang Joon Lee, 2006 – 2009	Michael Tsao, 2009 – Present
	Diane Igoche, 2009 – Present
	Min Kyu Kim, 2009 – Present
	Hyun-song Kim, 2009 – Present
	Victor Colo, 2009 – Present
	Elizabeth May, 2009 – Present

Master's Program Advisees (Non-thesis): 24

Hiliary Johnson, 2004 – 2005	Michael Buchanan, 2005 – Present
Yi-Chun Hong, 2004 – 2005 (Distinction)	James Norton, 2007 – Present
Willie Mazyck, 2005 – 2006	Phillip Smith, 2008 – Present
Mungjin Tollett, 2005 – 2006 (Distinction)	Alfredo Hernandez, 2008 – Present
Hyoseon An, 2005 – 2007	Jungrok Kwon, 2008 – Present
Jeremiah Grabowski, 2005 – 2007	Melissa Gay, 2008 – Present
Jung Eun Shim, 2005 – 2007 (Distinction)	Carrie Moore, 2009 – Present
Andrew Mason, 2006 – 2007	Laura Heilman, 2009 – Present
Huei Hsien Liu, 2006 – 2008	Patricia Lynde-Freeman, 2009 – Present
Caroline Bishop, 2006 – 2008 (Distinction)	Michael W. Campbell, 2009 – Present
Heuseon Lim, 2007 – 2008	
Eun Ju Jung, 2007 – 2009	
I-Young Hou, 2007 – 2009	
Roman Gaddis, 2007 – 2009	

Master's Portfolio Examination Committee Member: 24

Patti Dunn, 2004	Thomas Macaulay, 2004	Seow Chong Want, 2004
Yun-Shuang Chang, 2005	Wilian Dang, 2005	Emily R. Adams, 2005
Brandy Bellamy, 2005	Anika Francis, 2005	Brandy Bellamy, 2005
Kay Sauers, 2006	Li Yue, 2006	Jinn-Wei Tsao, 2007

Danielle Jones, 2007
 Emily Pitts, 2007
 Hsing-Mei Kung, 2007
 Jea Choi, 2009

Shikha Jain, 2007
 Jamal Olusesi, 2007
 Kazuya Takahashi, 2007
 Suhwa Lee, 2009

Stuti Garg, FA2007
 Kim Rodriguez, 2007
 Rob Mosteller, SP 2008
 Charles Parker

PROFESSIONAL SERVICE

Editorial Service

Editorial Board, *Educational Technology Research and Development* (Research Section), 2010 – 2012.

Consulting Editor, *Educational Technology Research and Development* (Research Section), 2005 – present.

Consulting Editor, *Educational Technology Research and Development* (Development Section), 2009 – present.

Editorial Board, *Journal of Korean Educational Technology*, 2007- present.

Editorial Board, *International Journal of Educational Media & Technology*, 2008 - present

Ad hoc Reviewer, *Canadian Journal of Learning and Technology*, 2003.

Proposal Reviewer, American Educational Research Association, 2005.

Proposal Reviewer, IEEE International Conference on Advance Learning Technologies, 2005, 2007.

Proposal Reviewer, The Association for Educational Communications & Technology, 1999.

Professional Affiliations

American Education Research Association

Association for Educational Communications & Technology

Association for the Advancement of Computing in Education

Korean Society for Educational Technology

Human Factors and Ergonomics Society

Selected International or National Services

Guest lecture (Oct. 26, 2009). *Case-based e-learning: Toward real-world problem solving*. Department of Educational Technology, Ewha Womans University, Seoul, Korea.

Faculty workshop (Oct. 28, 2008). *Faculty evaluation processes at research institutions: Focusing on the University of Georgia*. Center for Teaching and Learning, Chung-Ang University, Seoul, Korea.

Guest lecture (Oct. 28, 2008). *Case-based e-learning for real-world problem solving*. Instructional Technology graduate course, Chung-Ang University, Seoul, Korea.

Guest lecture (Oct. 29, 2008). *You are a global citizen: Beyond the Korean citizenship*. Department of Education, Chung-Ang University, Seoul, Korea.

Guest lecture (March, 2008). *Toward the global studio*. Department of Educational Technology, Ewha Womans University, Seoul, Korea.

Initiated and coordinated the CAU-UGA Global Students Forum 2008 (Lifelong Education & Human Resources Development: Focused on the Future), Chung-Ang University, Seoul, Korea (Nov. 31, 2008).

Board Member (2008 – present). Design & Development Division, the Association for Educational Communications & Technology (AECT).

Grant Proposal External Reviewer (2008). Strategic Technology Development Program. Korean Industrial Technology Foundation & Korean Ministry of Knowledge Economy.

Coordinator (2007-2008), The 2008 Design & Development Showcase (Design & Development Division) at the annual conference of the Association for Educational Communications & Technology (AECT), Orlando, FL.

Invited Talk (Dec. 1, 2007). *Global leadership and mission trips*. New York Queens Korean Church. NY.

Co-researcher, Global HRD project. Chung-Ang University. (2006-present).

Coordinating faculty member, International cooperation in Human Resource Development and Instructional Technology between the University of Georgia and the Chung-Ang University (2005 - Present).

Visiting Scholar at Chung-Ang University, Seoul, Korea (July 10 - August 4, 2006).

Visiting Scholar at the University of Puerto Rico. Establishing long-term collaborative research agenda on case-based learning and problem solving. (June 12-23, 2006).

Invited Talk. Appropriate instructional models for different learning outcomes. CyberMBA, Co., Ltd., Seoul, Korea. (Nov. 18, 2006)

Invited Talk. Toward a successful instructional reform with technology. KERIS (Korea Education Resource Information Service), Seoul, Korea. (Nov. 18, 2006).

Facilitated and coordinated international collaboration/meetings between UGA and Chung-Ang University, Seoul, Korea, in the fields of Human Resource Development and Instructional Technology. (Nov. 14-17, 2005).

Coordinated, moderated, and translated six international meetings and seminars for discussing online education between Korean delegations from the Korean Council for Online Universities and Penn State researchers and practitioners at the Pennsylvania State University, University Park, PA. (Nov. 17, 2004).

Hosted Korean delegations from the Korean Council for Online Universities. Moderated and translated an international meeting and an international seminar for online education at The University of Georgia, Athens, GA. (Nov. 15, 2004).

Educational Researcher. Conducted an educational research and provide consultations for the classroom use of Foundation of FreedomTM. Wheeling, WV: Wheeling Jesuit University, Center for Educational Technologies®. (2003-2004).

Evaluation Advisory Committee for the Development of Korean High School Distance Education Program. Korean Educational Development Institute, Seoul, Korea. (2004).

Coordinator, A national seminar: Information age & Korean youth culture. Sponsored by Research Center of Korean Youth Culture, Seoul, Korea. (May 13, 1994)

Coordinator, A national seminar: Developing Korean youth culture in information age. Sponsored by Research Center of Korean Youth Culture, Seoul, Korea. (May 2, 1995)

Selected Local Services

Affiliate Member, Faculty of Engineering, The University of Georgia (2007-present)

Member, Engineering Education Research Group. The University of Georgia. (2007-present).

Panelist at 3rd year review workshop, COE, UGA (Jan. 29, 2007).

Search committee, EPIT, The University of Georgia (Fall 2006 – Spring 2007)

Sunshine committee, EPIT, The University of Georgia (2005 – present)

Instructional Design and Development Program Committee. Department of Educational Psychology and Instructional Technology, The University of Georgia. (2004-present).

Seminar Committee. Department of Educational Psychology and Instructional Technology, The University of Georgia. (2004-2005).

Committee Member of Undergraduate Academic Affairs. College of Education and Human Services, Western Illinois University. (2002).

Assistant Professor Search Committee, Western Illinois University. (2002).

Co-founder and the first Principal of Macomb Korean Culture School, United Methodist Church, Macomb, IL. (2002).