**Kyungbin Kwon**

Associate Professor

Learning, Design, and Adult Education

School of Education, Indiana University

201 N. Rose Avenue

Bloomington, IN 47405

+1 812-856-8460, kwonkyu@iu.edu

# EDUCATION

University of Missouri, Columbia, Missouri

Major: Information Science and Learning Technologies Ph.D. 2011

Dissertation: *The effect of Self-explanation and Metacognitive scaffolding on Learning web programming*

Seoul National University, Seoul, South Korea

Major: Educational Method M.A. 2004

Thesis: *A Study on the Developmental Process of Online Learning Activities*

Seoul National University, Seoul, South Korea

Major: Education B.A. 1998

# PROFESSIONAL EXPERIENCE

Indiana University – Bloomington, School of Education, Learning, Design, and Adult Education

Associate Professor (2020 – present)

Indiana University – Bloomington, Cognitive Science Program

Associate Faculty Member (2015 – present)

Indiana University – Bloomington, School of Education, Instructional Systems Technology

Assistant Professor (2014 – 2020)

University of Missouri – Columbia, School of Medicine

Instructional Design & E-Learning Specialist (2010 – 2014)

# AWARD

* **Award for Outstanding Research 2025** from the School of Education at Indiana University.
* **Outstanding Research Paper Award** at the AERA Design and Technology SIG, 2025.   
  Kim, K., & **Kwon, K.** (2024). Designing an Inclusive Artificial Intelligence (AI) Curriculum for Elementary Students to Address Gender Differences With Collaborative and Tangible Approaches. *Journal of Educational Computing Research*, https://doi.org/10.1177/07356331241271059
* ***Outstanding Journal Article Award*** at the Annual Conference of the Association for Educational Communications and Technology (AECT). October 2024, Kansas City, Missouri.   
  Kim, K., & **Kwon, K**. (2024). Tangible computing tools in AI education: Approach to improve elementary students' knowledge, perception, and behavioral intention towards AI. *Education and Information Technologies*. 29, 16125-16156. https://doi.org/10.1007/s10639-024-12497-2
* Nominated for the School of Education’s Award for ***Excellence in Mentoring*** for 2023-2024 academic year.
* ***Best Paper Award*** at the SITE Special Interest Group, X Reailities and Learning, 2024.   
  **Kwon, K.**, Kim, K., Seo, M., Kim, H. & Brush, T. (2024). Embodied Learning in a Mixed-Reality Environment: Examination of Student Embodiment. In J. Cohen & G. Solano (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1142-1149). Las Vegas, Nevada, United States: Association for the Advancement of Computing in Education (AACE).
* ***Best Student Paper Award*** at the AERA Special Interest Group Instructional Technology (SIG-IT), 2024.   
  Kim, K., Bae, H., Brown, M., **Kwon, K**., Glazewski, K., & Ottenbreit-Leftwich, A. (2024). Exploring a Structured Summer Camp Curriculum to Foster Middle School Students' Understanding of Machine Learning[Paper Session]. AERA Annual Meeting, Philadelphia, PA.
* ***2023 Outstanding Partnership and Collaboration*** from the School of Education at Indiana University.
* ***Best Student Paper Award*** at the AERA Special Interest Group Instructional Technology (SIG-IT), 2022.   
  Kim, K., & **Kwon, K**. (2022) Design the Curriculum of Online Maker Education Using Educational Artificial Intelligence Tools in the COVID-19 Situation [Paper Session]. AERA Annual Meeting. San Diego, CA.
* ***Outstanding Empirical Journal Article Award*** at the Annual Conference of the Association for Educational Communications and Technology (AECT), 2022.   
  Bae, H., Glazewski, K., Brush, T., & **Kwon, K.** (2021). Fostering transfer of responsibility in the middle school PBL classroom: an investigation of soft scaffolding. Instructional Science. 49, 337-363.
* Nominated for the *2020* ***Trustees Teaching Award***.
* Nominated for the School of Education’s Award for ***Excellence in Mentoring*** for 2019-2020 academic year.
* ***Technology Adoption Incentive Awards****.* Indiana University, SOE Learning and Teaching With Technology. $1,000, 2019.
* ***Best Paper Award***at the AERA Special Interest Group Instructional Technology (SIG-IT), 2019.   
  Kwon, K., Shin, S. & Park, S. J. (2018). Effects of graphic organizers in online discussions: comparison between instructor-provided and student-generated. *Educational Technology Research and Development*. 66(6), 1479-1503. https://doi.org/10.1007/s11423-018-9617-7
* ***Appreciation Award*** for supporting the Korean Society for Educational Technology (KSET) as a planner for the 2016 AECT Convention, 2016.
* ***Faculty Excellence in Teaching Award*** for Outstanding Clinical Curriculum Innovation, University of Missouri, School of Medicine, 2012.

# GRANT

External

* **PI, National Science Foundation (#2431574),** *Collaborative Research: CISE-MSI: RDP: IIS: Integrating Biology and Computer Science through Embodied Robotics in Elementary Classrooms.* Hamid Nadir (Lead PI, University of North Carolina Greensboro) and Huaishu Peng (PI, University of Maryland). Total $599,036 (IU: $133,362, UNCG: $294,330, UM: $171,344), June 2025 – May 2028.
* **Co-PI, Indiana Department of Education**, *Building Indiana Computing Capacity (IC2) for Preservice Computer Science Education*. Anne Ottenbreit-Leftwich (PI) with Cindy Hmelo-Silver and Thomas Brush (Co-PIs). $312,612, Feb. 2023 – May 2024.
* **Lead PI,****National Science Foundation (#2048989),** *Collaborative Research: DTI: Supporting Early Learning of Computational Thinking Using Mixed Reality Technology*. IU: Thomas Brush and Mehmet Dalkilic (Co-PIs), NIU: Yanghee Kim (PI) and Jaejin Hwang (Co-PI). Total $1,367,577 (IU: $724,956, NIU: $642,621), Sept., 2021- Aug., 2025.
* **PI, The Department of Defense (DoD)**, National Defense Education Program (NDEP), *AI Goes Rural: Middle School Artificial Intelligence Citizenship Education*. $1,399,000, Anne Ottenbreit-Leftwich, Krista Glazewski, Mehmet Dalkilic, Raj Acharya, and Thomas Brush (Co-PIs), June, 2021- June, 2025.
* **Co-PI, Google Computer Science Education Research (CSER) program**, *Examining the impact of socially relevant problem-based learning curriculum at the elementary level: Students’ CS interest/knowledge and teachers’ implementation needs*. Anne Ottenbreit-Leftwich (PI) and Thomas Brush (Co-PI). $101,065, July, 2018- June, 2019.

Internal

* **PI, Indiana University,** Proffitt 2020 Research Grant. *Learning Computational Thinking Through Augmented Reality.* $9,500, 2020.
* **PI, Indiana University,** Proffitt 2018 Summer Faculty Fellowship. *Computer Science Education Using Block-Based Programming in a Middle School*. $10,000, 2018.
* **PI, Indiana University,** SOE Learning and Teaching With Technology Challenge Development Grants. *Support Collaborative Learning via Nudging Group Awareness Information*. $3,000, 2018.
* **PI, Indiana University,** SOE Learning and Teaching With Technology Challenge Development Grants. *Enhance Quality of Collaborative Learning through an Online Group Awareness Tool embedded in CANVAS*. $4,000, 2015.

# PUBLICATIONS

***Peer-reviewed Journal Articles:***

1. **Kwon, K.**, Kim, H., Kim, K., Seo, M., & Brush, T. (2025). Computational Thinking through Embodied Learning: A Comparison of Mixed-Reality and Unplugged Activities. *Journal of Research on Technology in Education*. <https://doi.org/10.1080/15391523.2025.2492604>
2. Seker, O., **Kwon, K.**, & Kocak, O. (2025). Exploring researchers’ artificial intelligence (AI) literacy: The mediating role of digital literacy and data literacy between 21st century skills and AI literacy. *Information Development*, 0(0). <https://doi.org/10.1177/02666669251336368>
3. **Kwon, K.,** Lee, S., & Kim, K. (2025). Gender Disparities in K-12 Computer Science Education: Status, Contributing Factors, and Instructional Approaches. *Computers and Education Open,* 1-11*.* <https://doi.org/10.1016/j.caeo.2025.100253>
4. Kim, K. & **Kwon, K.** (2025). Unveiling Teacher Identity Development: A Case Study of AI Curriculum Implementation in a Rural Middle School Computer Science Class. *Teaching and Teacher Education,* 160, 1-13. https://doi.org/10.1016/j.tate.2025.105032
5. **Kwon, K.,** Kim, K., Zhou, C., & Jeon, M. (2025). Embodied Learning Experiences of Early Elementary Students in Computational Thinking Education. *Technology, Knowledge and Learning*, 1-21*.* <https://doi.org/10.1007/s10758-025-09826-w>
6. **Kwon, K**., Brush, T., Kim, K., & Seo, M. (2024). Embodied learning for computational thinking in a mixed-reality context. *Journal of Educational Computing Research*, 62(8), 1939-1960. <https://doi.org/10.1177/07356331241291173>
7. Kim, K., & **Kwon, K.** (2024). Designing an inclusive Artificial Intelligence (AI) curriculum for elementary students to address gender differences with collaborative and tangible approaches. *Journal of Educational Computing Research*, 1-28. <https://doi.org/10.1177/07356331241271059>
8. Ngo, T. P., Draucker, C. B., Barnes, R. L., **Kwon, K.**, & Reising, D. L. (2024). Peer Emotion in Collaborative Simulation Among Nursing Students. *Journal of Nursing Education*, 63(11), 746-754. https://doi.org/doi:10.3928/01484834-20240614-04
9. Sankaranarayanan, R., Yang, M., & **Kwon, K.** (2024). Exploring the role of a microlearning instructional approach in an introductory database programming course: an exploratory case study. *Journal of Computing in Higher Education*, 1-34. <https://doi.org/10.1007/s12528-024-09408-2>
10. Jeon, M., & **Kwon, K.** (2024). Parallel Instruction of Text-based and Block-based Programming: On Novice Programmers’ Computational Thinking Practices. *TechTrends*, 68, 1033-1050. <https://doi.org/10.1007/s11528-024-00993-8>
11. Ngo, T. P., Draucker, C. B., Barnes, R. L., **Kwon, K.**, & Reising, D. L. (2024). Peer Collaborative Clinical Decision Making in Nursing Simulation: A Theoretical Framework. *Journal of Nursing Education*, 63(7), 435-443. <https://doi.org/doi:10.3928/01484834-20240505-08>
12. Slamet, T., Brush, T., & **Kwon, K**. (2024). The Effects of Competition in Gamified Online Discussions on Learners’ Behavioral and Cognitive Engagement. *Technology, Knowledge and Learning*, 1-27. <https://doi.org/10.1007/s10758-024-09740-7>
13. Kim, K., & **Kwon, K**. (2024). A systematic review of the evaluation in K-12 artificial intelligence education from 2013 to 2022. *Interactive Learning Environments,* 1-29. <https://doi.org/10.1080/10494820.2024.2335499>
14. Lee, S. J., & **Kwon, K.** (2024). A systematic review of AI education in K-12 classrooms from 2018 to 2023: Topics, strategies, and learning outcomes. *Computers and Education: Artificial Intelligence*, 6, 1-10. <https://doi.org/https://doi.org/10.1016/j.caeai.2024.100211>
15. Kim, K., & **Kwon, K.** (2024). Tangible computing tools in AI education: Approach to improve elementary students' knowledge, perception, and behavioral intention towards AI. *Education and Information Technologies, 29, 16125-16156.* <https://doi.org/10.1007/s10639-024-12497-2>
16. **Kwon, K.,** Jeon, M., Zhou, C., Kim, K., & Brush, T. A. (2024). Embodied learning for computational thinking in early primary education. *Journal of Research on Technology in Education*, 56(4), 410-430. <https://doi.org/10.1080/15391523.2022.2158146>
17. Kim, K., & **Kwon, K.** (2023). Exploring the AI competencies for Elementary school teachers in South Korea. *Computers and Education: Artificial Intelligence*, 4, 1-11. <https://doi.org/10.1016/j.caeai.2023.100137>
18. Kim, K., **Kwon, K.**, Ottenbreit-Leftwich, A., Bae, H., & Glazewski, K. (2023). Exploring middle school students’ common naive conceptions of Artificial Intelligence concepts, and the evolution of these ideas. *Education and Information Technologies*, 28(8), 9827-9854. <https://doi.org/10.1007/s10639-023-11600-3>
19. Jeon, M., **Kwon, K.**, & Bae, H. (2023). Effects of different graphic organizers in asynchronous online discussions. *Educational Technology Research and Development,* 71(2), 689-715. <https://doi.org/10.1007/s11423-022-10175-z>
20. **Kwon, K.**, Jeon, M., Guo, M., Yan, G., Kim, J., Ottenbreit-Leftwich, A. T., & Brush, T. A. (2023). Computational thinking practices: Lessons learned from a problem-based curriculum in primary education. *Journal of Research on Technology in Education*, 55(4), 590-607. <https://doi.org/10.1080/15391523.2021.2014372>
21. Shin, S., **Kwon, K**., & Jung, J. (2022). Collaborative Learning in the Flipped University Classroom: Identifying Team Process Factors. *Sustainability*, 14(12), 7173. <https://doi.org/10.3390/su14127173>
22. Moon, H., Cheon, J., & **Kwon, K.** (2022). Difficult Concepts and Practices of Computational Thinking Using Block-based Programming. *International Journal of Computer Science Education in Schools*, 5(3), 3-16. <https://doi.org/10.21585/ijcses.v5i3.129>
23. **Kwon, K.**, Ottenbreit-Leftwich, A. T., Brush, T. A., Jeon, M., & Yan, G. (2021). Integration of problem-based learning in elementary computer science education: effects on computational thinking and attitudes. *Educational Technology Research and Development*, 69(5), 2761-2787. <https://doi.org/10.1007/s11423-021-10034-3>
24. Ottenbreit-Leftwich, A. T., **Kwon, K.**, Brush, T. A., Karlin, M., Jeon, M., Jantaraweragul, K., Guo, M., Nadir, H., Gok, F., & Bhattacharya, P. (2021). The impact of an issue-centered problem-based learning curriculum on 6th grade girls’ understanding of and interest in computer science. *Computers and Education Open*, 2, 1-11. <https://doi.org/https://doi.org/10.1016/j.caeo.2021.100057>
25. Sankaranarayanan, R., **Kwon, K**., & Cho, Y. (2021). Exploring the differences between individuals and groups during the problem-solving process: The collective working-memory effect and the role of collaborative interactions. *Journal of Interactive Learning Research*. 32(1), 43-66. <https://www.learntechlib.org/primary/p/217515/>
26. **Kwon, K.**, Cheon, J., & Moon, H. (2021). Levels of problem-solving competency identified through Bebras Computing Challenge. *Education and Information Technologies*. 26, 5477–5498. <https://doi.org/10.1007/s10639-021-105539>
27. Lee, S., & **Kwon, K.** (2021). Peer assessment as a facilitating and assessment strategy in online and face-to-face classes. *International Journal of Online Pedagogy and Course Design*. 11(3), 1-13. <https://doi.org/10.4018/IJOPCD.2021070103>
28. Bae, H., Glazewski, K., Brush, T., & **Kwon, K**. (2021). Fostering transfer of responsibility in the middle school PBL classroom: an investigation of soft scaffolding. *Instructional Science*. 49, 337-363. [*https://doi.org/*10.1007/s11251-021-09539-4](https://doi.org/10.1007/s11251-021-09539-4)
29. Bae, H., & **Kwon, K.** (2021). Developing metacognitive skills through class activities: what makes students use metacognitive skills? *Educational Studies*, 47(4), 456-471. [*https://doi.org/*10.1080/03055698.2019.1707068](https://doi.org/10.1080/03055698.2019.1707068)
30. Gok, F., & **Kwon, K.** (2020). A case study exploring pre-service teachers’ programming difficulties and strategies when learning programming languages. *Psychology and Cognitive Sciences Open Journal*, 6(1), 1-6. [*https://doi.org/*10.17140/PCSOJ-6-152](https://doi.org/10.17140/PCSOJ-6-152)
31. **Kwon, K.** (2020). Student-generated awareness information in a group awareness tool: what does it reveal? *Educational Technology Research and Development*, 68(3), 1301-1327. [*https://doi.org/*10.1007/s11423-019-09727-7](https://doi.org/10.1007/s11423-019-09727-7)
32. Brush, T., Ottenbreit-Leftwich, A., **Kwon, K**. & Karlin, M. (2020). Implementing Socially Relevant Problem-Based Computer Science Curriculum at the Elementary Level: Students’ Computer Science Knowledge and Teachers’ Implementation Needs. *Journal of Computers in Mathematics and Science Teaching*, 39(2), 109-123.
33. **Kwon, K.**, Park, S., Shin, S., & Chang, C. (2019). Effects of different types of instructor comments in online discussions. *Distance Education*. 40(2), 226-242. [*https://doi.org/*10.1080/01587919.2019.1602469](https://doi.org/10.1080/01587919.2019.1602469)
34. **Kwon, K.** & Cheon, J. (2019) Exploring problem decomposition and program development through block-based programs. *International Journal of Computer Science Education in Schools*. 3(1), 316. [*https://doi.org/*10.21585/ijcses.v3i1](https://doi.org/10.21585/ijcses.v3i1)
35. **Kwon, K.**, Ottenbreit-Leftwich, A. T., Sari, A., Khlaif, Z., Zhu, M., Nadir, H.& Gok, F. (2019). Teachers’ self-efficacy matters: Mobile computing device integration in middle schools. *TechTrends*. 63(6), 682-692. [*https://doi.org/*10.1007/s11528-019-00402-5](https://doi.org/10.1007/s11528-019-00402-5)
36. **Kwon, K.**, & Song, D., & Sari, A., & Khikmatillaeva, U. (2019). Different types of collaborative problem-solving processes in an online environment: Solution-oriented versus problem-oriented. *Journal of Educational Computing Research*. *56(8)*, 1277-1295. [*https://doi.org/*10.1177/0735633117740395](https://doi.org/10.1177/0735633117740395)
37. **Kwon, K.,** Shin, S. & Park, S. J. (2018). Effects of graphic organizers in online discussions: comparison between instructor-provided and student-generated. *Educational Technology Research and Development*. *66(6)*, 1479-1503. [*https://doi.org/*10.1007/s11423-018-9617-7](https://doi.org/10.1007/s11423-018-9617-7)
38. **Kwon, K.**, Lee, S. J., & Chung, J. (2018). Computational concepts reflected on Scratch programs. *International Journal of Computer Science Education in Schools*, 2(3). <https://doi.org/10.21585/ijcses.v2i3.33>
39. Liu, Y. -H., **Kwon, K.,** & Johnson, L. P. (2018). Exploration of factors in the early collaboration phase affecting virtual groups’ overall collaborative learning experiences. *Journal of Educational Computing Research*. *56(4)*, 485-512. <https://doi.org/10.1177/0735633117715034>
40. Han, A., **Kwon, K.** (2018). Students' perception of extracurricular activities: A case study. *Journal of Advances in Education Research*. 3(3), 131-141. <https://doi.org/10.22606/jaer.2018.33002>
41. **Kwon, K.**, & Park, S. J. (2017). Effects of discussion representation: Comparisons between interaction and topic diagrams. *Instructional Science*, *45(4)*, 469-491. <https://doi.org/10.1007/s11251-017-9412-6>
42. **Kwon, K.**, Shin, S., Brush, T. A., Glazewski, K. D., Edelberg, T., Park, S. J., . . . Alangari, H. (2017). Inquiry learning behaviors captured through screencasts in problem-based learning. *Interactive Learning Environments*, *26(6)*, 839-855. <https://doi.org/10.1080/10494820.2017.1419496>
43. **Kwon, K.** (2017). Novice programmer’s misconception of programming reflected on problem-solving plans. *International Journal of Computer Science Education in Schools*, 1(4). 14-24. <https://doi.org/10.21585/ijcses.v1i4.19>
44. Khlaif, Z., Nadiruzzaman, H., & **Kwon, K.** (2017). Types of interaction in online discussion forums: A case study. *Journal of Educational Issues*, 3(1), 155-169. <https://doi.org/10.5296/jei.v3i1.10975>
45. **Kwon, K.**, DiSilvestro, F. R., & Treff, M. E. (Fall 2016/Winter 2017). Online graduate course evaluation from both students’ and peer instructors’ perspectives utilizing Quality Matters. *Internet Learning*, 5(1), 7-16. <https://doi.org/10.18278/il.5.1.2>
46. **Kwon, K.**, Saporova, D. & Hoffman, K. (2015). Online lecture capturing system: Expected and actual effects of implementation in a problem-based learning medical curriculum. *Medical Teacher*, *37(6)*, 578-584. <https://doi.org/10.3109/0142159X.2014.956060>
47. **Kwon, K.**, Liu, Y., & Johnson, L. (2014). Group regulation and social-emotional interactions observed in computer supported collaborative learning: Comparison between good vs. poor collaborators. *Computers & Education, 78, 185-200*. <https://doi.org/10.1016/j.compedu.2014.06.004>
48. **Kwon, K.**, Hong, R., & Laffey, J. (2013). The educational impact of metacognitive group coordination in computer-supported collaborative learning. *Computers in Human Behavior,* 29(4), 1271-1281. <https://doi.org/10.1016/j.chb.2013.01.003>
49. Moore, J. L., Dickson-Deane, C., Galyen, K., Kumalasari, C., & **Kwon, K**. (2012). The ZONE learning community: Gaining knowledge through mentoring. *First Monday*, 17(9). <https://doi.org/10.5210/fm.v0i0.3748>
50. **Kwon, K.**, & Jonassen, D. (2011). The influence of reflective self-explanations on problem-solving performance. *Journal of Educational Computing Research*, 44(3), 243-259. <https://doi.org/10.2190/EC.44.3.a>
51. **Kwon, K.**, Kumalasari, C. D., & Howland, J. L. (2011). Self-explanation prompts on problem-solving performance in an interactive learning environment. *Journal of Interactive Online Learning, 10*, 96-112. <https://doi.org/10.18848/1447-9494/CGP/v17i02/46899>
52. **Kwon, K.**, Han, D., Bang, E., & Armstrong, S. (2010). Feelings of isolation and coping mechanism in online learning environments: A case study of Asian international students. *The International Journal of Learning*, 17, 343-356. <https://doi.org/10.18848/1447-9494/CGP/v17i02/46899>
53. Song, S., & **Kwon, K**. (2006). The role of center for teaching and learning for higher education: From cases of USA. *Korean Journal of Educational Technology*, 22(3), 167-185. Retrieved from <https://www.kset.or.kr>

***Book Chapter:***

1. **Kwon, K.**, Kim, K., Seo, M., Kim, H., & Brush, T. (2024). Embodied Learning in a Mixed-Reality Environment: Examination of Student Embodiment. In R. J. Blankenship & T. Cherner (Eds.), *Research Highlights in Technology and Teacher Education Special Edition* (pp. 155-174). Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/224717/>
2. Frick, T., Dagli, C., **Kwon, K.**, & Tomita, K. (2018). Indiana university plagiarism tutorials and tests: 14 years of worldwide learning online. In B. Hokanson, G. Clinton, & K. Kaminski (Eds.), *Educational Technology and Narrative: Story and Instructional Design* (pp. 191-205). Springer International Publishing. <https://doi.org/10.1007/978-3-319-69914-1_16>

***Other publication:***

1. Cho, Y., Boling, E., & **Kwon, K.** (2017). Improving human learning and performance at Indiana university. *Performance Improvement*, 56(3), 34-44. doi:10.1002/pfi.21695

***Invited Presentations:***

* *Developing an AI Competency Framework and Tool for Teachers in Uruguay (Oct. 2024).* Panel at EduIA conference. Montevideo, Uruguay.
* *Building Tomorrow's Leaders: Preparing the Next Generation with AI Education (Oct. 2024).* Keynote at the 2024 International Conference on Educational Prospective in the E Era. Taichung, Taiwan.
* *Embodied Computational Thinking in a Mixed-Reality Context (July 2024).* The 24th International Conference on Education Research. Seoul, South Korea.
* *New Definition of Learning and Innovative Teaching Strategies in AI Era (July 2024).* Center for Innovation of Future Education. Seoul, South Korea.
* *Embodied Learning Experiences of Early Elementary Students in Computational Thinking Education* (July 2024). EduTech Convergence Lab (ETCL). Seoul, South Korea.
* *Innovation in Future Education: Cases and Lessons for Digital Learning (June 2024).* Korea Education and Research Information Service (KERIS). Seoul, South Korea.
* *AI Education: Lessons Learned for Empowering Teachers and Enriching Student Learning* (September 2023). Power Friday. Keynote Speaker. Purdue University.
* *AR-based Learning Environment for Computational Thinking: from An Embodied Learning Perspective* (April 2023). The 5th International Conference on Computer Science and Technologies in Education. Virtual Conference.
* *Envisioning Students’ AI Understanding through AI-based Hands-on Activities* (April 2023). DoD STEM Exchange.
* *Embodied Learning for Computational Thinking Education through Augmented Reality (Jan. 2023). Neurotalk 2023. Sapporo, Japan.*
* *AI Edu Answered in 5W1H (Jan. 2023).* Korea, Seoul National University.
* *Instructional Design for Embodied Learning* (Oct. 2022). The 22nd International Conference on Education Research. Korea, Seoul National University.
* *Learning Computational Thinking Through Bodily Movements from an Embodied Cognition Perspective* (May 2022). The 4th International Conference on Computer Science and Technologies in Education. Virtual Conference.
* *Innovations in higher education through Artificial Intelligence* (Jan. 2022). The 9th International Forum on Innovation in Higher Education. Korea, Sungkyunkwan University.
* *AI Education in K-12: What to teach and how to teach?* (Oct. 2021). The 21st International Conference on Education Research. Korea, Seoul National University.
* *When Embodied Cognition Met AR: Marriage between Mind and Body* (Nov. 2020). Emerging Trends and Issues of Educational Technology in Korea and the U.S.: Predicting the Future. Annual Conference of the Association for Educational Communications and Technology (AECT).
* *Computer-Supported Collaborative Learning & the next phases* (June 2019). Korea, Seoul National University; Pukyong National University.
* *Support Collaborative Learning via Nudging Group Awareness Information* (Feb. 2019). Learning and Teaching with Technology Faculty Showcase. Indiana University.
* *Evaluation of computational thinking: Reveal students’ misconceptions* (Oct. 2018). The 4th International Science, Mathematics and Technology Education Conference (ISMTEC). Bangkok, Thailand.
* *Computer science education using block-based programming in a middle school* (Oct. 2018). R&D Internal Grants Poster Session. Indiana University.
* *Design and development of group awareness tool for online collaborative learning (Jan. 2016).* Learning and Teaching with Technology Faculty Showcase. Indiana University.

***Peer-reviewed Conference Proceedings:***

1. **Kwon, K.**, Kim, K., Ottenbreit-Leftwich, A. T., Glazewski, K. D., Brown, M. L., Bae, H., & Closser, F. M. (2024). *Exploring AIFORGOOD Summer Camp Curriculum to Foster Middle School Students' Understanding of Artificial Intelligence.* Proceedings of the 55th ACM Technical Symposium on Computer Science Education V. 2, Portland, OR. <https://doi.org/10.1145/3626253.3635536>
2. **Kwon, K.**, Kim, K., Seo, M., Kim, H. & Brush, T. (2024). Embodied Learning in a Mixed-Reality Environment: Examination of Student Embodiment. In J. Cohen & G. Solano (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1142-1149). Las Vegas, Nevada, United States: Association for the Advancement of Computing in Education (AACE). Retrieved April 2, 2024 from <https://www.learntechlib.org/primary/p/224135/>
3. **Kwon, K**. & Kim, K. (2024). Exploring Middle School Teachers’ Experience in Co-design and Co-teach an NLP-Generative AI focused curriculum in STEM classroom. In J. Cohen & G. Solano (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2484-2486). Las Vegas, Nevada, United States: Association for the Advancement of Computing in Education (AACE). Retrieved April 2, 2024 from <https://www.learntechlib.org/primary/p/224335/>
4. Yang, S. & **Kwon, K**. (2024). How are pre-service teachers' technology integration beliefs revealed across different majors through their ePortfolio? In J. Cohen & G. Solano (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2523-2528). Las Vegas, Nevada, United States: Association for the Advancement of Computing in Education (AACE). Retrieved April 2, 2024 from <https://www.learntechlib.org/primary/p/224342/>
5. Kim, H. & **Kwon, K.** (2024). Learning computational thinking through embodied experience: a proposal of a framework. In J. Cohen & G. Solano (Eds.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 67-73). Las Vegas, Nevada, United States: Association for the Advancement of Computing in Education (AACE). Retrieved April 2, 2024 from <https://www.learntechlib.org/primary/p/223956/>
6. Kim, K., **Kwon, K.**, Bae, H., Ottenbreit-Leftwich, A. & Glazewski, K. (2023). Exploring the middle school students’ common preconceptions of AI concepts: “AI is a cure-all solution!”. In E. Langran (Ed.), Proceedings of Society for Information Technology & Teacher Education International Conference (pp. 2124-2129). New Orleans, LA, United States: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/222102/>
7. Zhou, C., **Kwon, K.**, Brush, T., Kim, K., Muralidharan, A., & Kim, Y. (2022). Using Augmented Reality Technology to Support Young Students’ Embodied Learning Experience in Computational Tasks. *Proceedings of SITE Interactive Online 2022 Conference.*
8. Moon, H., Cheon, J., & **Kwon, K.** (2019). Exploring Undergraduate Students’ Patterns and Challenges of Computational Thinking (CT) Practice in an Online Environment. *Proceedings of Association for Educational Communications and Technology (AECT).* Las Vegas, Nevada.
9. **Kwon, K.**, Park, S., Shin, S., & Chang, C. (2019). Three types of instructor facilitation in online discussion. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* Toronto, Canada.
10. Nadir, H., Glazewski, K. D., Brush, T., & **Kwon, K.** (2019). When middle school kids make: Understanding the roles of scaffolding for troubleshooting to support inquiry. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* Toronto, Canada.
11. Brush, T., Ottenbreit-Leftwich, A., **Kwon, K.**, & Karlin, M. (2019). Implementing socially relevant problem-based computer science curriculum at the elementary level: Students’ computer science knowledge and teachers’ implementation needs. *Proceedings of the 30th annual conference of the Society for Information Technology and Teacher Education (SITE)*. Las Vegas, Nevada.
12. Bae, H., Glazewski, K., Brush, T., & **Kwon, K.** (2018). Fostering transfer of responsibility in the middle school problem-based learning classroom: An investigation of dialogic scaffolds.
13. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* New York, NY.
14. **Kwon, K.** (2017). Student’s evaluations of group process via a group awareness tool. In J. Johnston (Ed.),
15. *Proceedings of EdMedia 2017* (pp. 440-445). Washington, DC: Association for the Advancement of Computing in Education (AACE). Retrieved January 3, 2018 from https://www.learntechlib.org/p/178344/.
16. **Kwon, K.**, Liu, Y., & Johnson, L. (2015). Factors that influence learner’s perception of group process within a computer supported collaborative learning environment. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* Chicago, IL.
17. **Kwon, K.,** & Hong, R. (2012). Group awareness support in promoting online collaborative learning. *Proceedings of Annual Conference of the Ed-Media.* Denver, CO.
18. **Kwon, K.**, & Graber, G. (2010). Facilitating constructive online discussion using graphical representation. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* Denver, CO.
19. **Kwon, K**., Kumalasari, C., & Howland, J. (2010). Effects of self-explanation strategies on learning troubleshooting. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* Denver, CO.
20. Jonassen, D.H., Cho, Y.H., Easter, M., Henry, H., & **Kwon, K.** (2010). Eliciting counterarguments in ethics problems. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* Denver, CO.
21. **Kwon, K.,** & Moore, J. L. (2009). Constructing programming concept and detecting misconception with self-explanation. *Proceedings of the Annual Conference of the Association for Educational Communications and Technology(AECT).* Louisville, KY.
22. Jonassen, D.H., Cho, Y.H., **Kwon, K.**, Henry, H., & Easter, M. (2009). Facilitating argumentation in illstructured problem solving. *Paper presented at the biennial conference of the European Association for Research on Learning and Instruction,* Amsterdam, Netherlands.
23. **Kwon, K.**, & Liu, P. (2009). Effective metacognition in cooperative learning: A case study. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* San Diego, CA.
24. Jonassen, D.H., Cho, Y.H., Easter, M., Henry, H., **Kwon, K**, & Shen, D. (2009). Evaluating vs. constructing arguments. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* San Diego, CA.
25. Galyen, K., Kumalasari, C., & **Kwon, K**. (2008). The Digital Media ZONE: A model for online digital media instruction. *Proceedings of Annual Conference of the E-Learn.* Las Vegas, NV.
26. **Kwon, K.**, & Cho, K. (2008). Focus of peer comments and its effect on writing. *Proceedings of Annual Conference of the American Educational Research Association (AERA).* New York, NY.
27. Cho, K., Schunn, C. D., & **Kwon, K**. (2007). Learning writing by reviewing. *Proceedings of Annual Conference of the Computer-Supported Collaborative Learning (CSCL).* New Jersey.

***Professional Presentations:***

1. Kim, K & **Kwon, K**. (2024). *Unveiling Co-teaching Strategies and Impact of the NLP-Generative AI Curriculum on Middle School AI Literacy*[Concurrent]. Annual Conference of the Association for Educational Communications and Technology (AECT). Kansas City, MO.
2. Brush, T., **Kwon, K**., Shin, S., Seo, M., & Kim, H. (2024). *Redesign of the Wise Practice Case Database: Multimedia Resources to Support Inquiry-Based Teaching Practices*[Showcase]. Annual Conference of the Association for Educational Communications and Technology (AECT). Kansas City, MO.
3. Balogun, A., Glazewski, K., & **Kwon, K**. (2024). *Exploring Trends in the Use of Virtual Simulations in the Science Classroom: Presenting Teachers Perspectives*[Concurrent]. Annual Conference of the Association for Educational Communications and Technology (AECT). Kansas City, MO.
4. Nadir, H. & **Kwon, K.** (2024). *Exploring the human circulatory system while programming werable technology*[Poster]. Annual Conference of the Association for Educational Communications and Technology (AECT). Kansas City, MO.
5. Yang, S. & **Kwon, K.** (2024). *How early childhood educators view AI education for young children*[Work-in-progress Exchange]. Annual Conference of the Association for Educational Communications and Technology (AECT). Kansas City, MO.
6. Seo, M, **Kwon, K.,** Brush, T., Kim, H., & Kim, K. (2024). *Integrating Augmented Reality and Collaborative Activities to Enhance Computational Thinking in K-12 Classrooms*[Concurrent]. Annual Conference of the Association for Educational Communications and Technology (AECT). Kansas City, MO.
7. Kadirova, D., Leftwich. A., Brush, T., **Kwon, K**., Hmelo-Silver, C., Drum, S., & Chu, L. (2024*). Elementary Preservice Teachers’ Conceptions of Computer Science Education and Preparedness to Teach Computer Science*[Concurrent]. Annual Conference of the Association for Educational Communications and Technology (AECT). Kansas City, MO.
8. Bae, H., Kim, K., **Kwon, K.**, Glazewski, K., & Leftwich, A. (2024). *“It’s insulting”: Providing Distributed and Contingent Scaffolding to Foster Ethics-Centered AI Literacy*[Concurrent]. Annual Conference of the Association for Educational Communications and Technology (AECT). Kansas City, MO.
9. Bae, H., Kim, K., **Kwon, K.,** Glazewski, K., & Ottenbreit-Leftwich, A. (2024, June 10-14). *Scaffolding to Build AI Competences: Transforming Student Presentations to Meaningful Learning Moments.* International Society of Learning Science 2024 Annual Meeting, Buffalo, NY, United States.
10. Kim, K., Bae, H., Brown, M., **Kwon, K.,** Glazewski, K., & Ottenbreit-Leftwich, A. (2024, April 11-14). *Exploring a Structured Summer Camp Curriculum to Foster Middle School Students' Understanding of Machine Learning* [Concurrent Session]*.* 2024 Conference of American Educational Research Association, Philadelphia, PA, United States.
11. Zhou, C., **Kwon, K.,** Kim, K., Brush, T., Muralidharan, A., Seo, M., Kim, Y., & Hwang, J. (2023). *Embodied Programming Experience in Computational Thinking Development: Examination on Effectiveness of Augmented Reality and Bee-bots* [Concurrent Session]. Annual Conference of the Association for Educational Communications and Technology (AECT). Orlando, FL.
12. Slamet, T. I., Brush, T., & **Kwon, K.** (2023). *The Effects of Competition in Gamified Online Discussions on Learners’ Behavioral and Cognitive Engagement* [Concurrent Session]. Annual Conference of the Association for Educational Communications and Technology (AECT). Orlando, FL.
13. Bae, H., Zhou, C., Brown, M., Kim, K., **Kwon, K.,** Glazewski, K., Ottenbreit-Leftwich, A., & Closser, F. (2023). *Fostering AI literacy in Middle School through Prompting Questions: Does Every Robot Have AI?* [Concurrent Session]. Annual Conference of the Association for Educational Communications and Technology (AECT). Orlando, FL.
14. Brush, T., Glazewski, K., **Kwon, K.,** Ottenbreit-Leftwich, A., Shin, S., Bae, H., Seo, M., Kadirova, D., Hmelo-Silver, C., Lester, J., & Mott, B. (2023). *The Use of Multimedia Technologies to Support Student-Centered Teaching Practices* [Panel Discussion]. Annual Conference of the Association for Educational Communications and Technology (AECT). Orlando, FL.
15. Seo, M., Kim, K., Zhou, C., Sridhar, A., **Kwon, K.,** Brush, T., Kim, Y., & Hwang, J. (2023). *Designing Pathfinding Tasks for young students in Augmented Reality for Embodied Computational Thinking* [Concurrent Session]. Annual Conference of the Association for Educational Communications and Technology (AECT). Orlando, FL.
16. **Kwon, K.** (2023). *Embodied Learning for Computational Thinking* [Concurrent Session]. US-Korea Conference. Dallas, TX.
17. **Kwon, K.,** Brush, T., Zhou, C., Kim, K., Seo, M., Muralidharan, A., Kim, Y., & Hwang, J. (2023). *Learning computational thinking through AR enhanced embodied learning activities* [Concurrent Session]. Annual Conference of EdMedia + Innovate Learning. Vienna, Austria.
18. Bae, H., **Kwon, K.**, Glazewski, K., Ottenbreit-Leftwich, A., Closser, F., Jeon, M., & Kim, K. (2023). *Investigating the Process and Strategies for Teacher Empowerment in Virtual Co-design Sessions* [Paper session]. 2023 AERA Annual Meeting, Chicago, IL.
19. Sankaranarayanan, R., **Kwon, K.,** & Mithun, S. (2022) *Exploring the Impact of Microlearning Instruction on Student Learning Outcomes* [Concurrent Session]. Annual Conference of the Association for Educational Communications and Technology (AECT). Las Vegas, NV.
20. Kim, K., Ottenbreit-Leftwih, A., **Kwon, K.,** Glazewski, K., Closser, F., Bae, H., & Jeon, M. (2022). *Design considerations of synchronous online AI professional development for middle school teachers* [Concurrent Session]. Annual Conference of the Association for Educational Communications and Technology (AECT). Las Vegas, NV.
21. Zhou, C., Kim, K., **Kwon, K.,** Brush, T., Sridhar, A., Kim, Y. & Hwang, J. (2022). *Promoting Young Students’ Embodied Interaction with Cutting-edge Technologies in Computational Tasks* [Gallery Walk]. Annual Conference of the Association for Educational Communications and Technology (AECT). Las Vegas, NV.
22. Jeon, M., **Kwon, K**., Ottenbreit-Leftwih, A., Glazewski, K., Closser, F., Bae, H., & Kim. K. (2022). *Developing a Student-centered AI Literacy Curriculum for Rural Middle School Students* [Gallery Walk]. Annual Conference of the Association for Educational Communications and Technology (AECT). Las Vegas, NV.
23. Kim, K., **Kwon, K.**, & Shin, S. (2022). *Exploring the AI competencies for Elementary School Teachers in South Korea* [Virtual Concurrent Session]. The 22nd International Conference on Education Research. Korea, Seoul National University.
24. Jeon, M., & **Kwon, K.** (2022). *Parallel Instructions of Text-Based and Block-Based Programming: On Novice Programmers' Computational Thinking Practices* [Paper Session]. AERA Annual Meeting. San Diego, CA.
25. Kim, K., & **Kwon, K.** (2022) *Design the Curriculum of Online Maker Education Using Educational Artificial Intelligence Tools in the COVID-19 Situation*. [Paper Session]. AERA Annual Meeting. San Diego, CA.
26. Zhou, C., Kim, K., Jeon, M., **Kwon, K.,** & Brush, T. (2022). *Developing Computational Thinking with Programming Robots through Collaborative Embodied Learning in Elementary School Classrooms* [Concurrent session]. IST 2022 conference, Bloomington, IN.
27. **Kwon, K**., Jeon, M., Nadir, H., Sankaranarayanan, R., Gok, S., Chavez, N., & Lee, H. (2021). *Embodied learning for computational thinking education* [Concurrent Presentation]*.* Annual Conference of the Association for Educational Communications and Technology (AECT). Chicago, IL.
28. Closser, F., **Kwon, K.**, Ottenbreit-Leftwich, A. T., Glazewski, K., Acharya, R., Dalkilic, M., Bae, H., Jeon, M., & Kim, K. (2022, Jan 13). *AI Goes Rural* [Concurrent session]. 2022 Indiana STEM Education Conference, West Lafayette, IN.
29. Jeon, M., **Kwon, K**. & Bae, H. (2021). *Effects of Graphic Organizers in Asynchronous Online Discussions* [Roundtable]*.* Annual Conference of the Association for Educational Communications and Technology (AECT). Chicago, IL.
30. Phillips, T., Jeon, M., Jantaraweragul, K., & **Kwon, K.** (2021). *An Exploration of the Relationship Between Social Media Usage and Undergraduate School Satisfaction* [Roundtable]*.* Annual Conference of the Association for Educational Communications and Technology (AECT). Chicago, IL.
31. Brush, T., Ottenbreit-Leftwich, A., & **Kwon, K**. (2021). *Implementing a problem-based computer science curriculum with elementary students: Impact on knowledge, skills, and attitudes* [Interactive Paper Sessions]. PBL 2021 online conference.
32. Brush, T., Glazewski, K., **Kwon, K**., & Ottenbreit-Leftwich, A. (2021). *Supporting PBL Practice in K-12 Education: The Wise Practice Video Case Database (WPCD)* [Interactive Poster Presentations]. PBL 2021 online conference.
33. Shin, S., **Kwon, K.,** Jung, J., & Song, J. (2021). Collaborative learning in the flipped university classroom: Identifying team process factors. AERA Annual Meeting.
34. Guo. M., Yan. G., Kim. J., Jeon. M., **Kwon. K**, Leftwich, A., & Brush, T. (2021). Coding patterns and techniques in sixth graders’ block-based programming projects. AERA Annual Meeting.
35. **Kwon, K**., Cheon, J., & Moon, H. (2020). *Evaluation of computational thinking (CT) through Bebras challenge.* Annual Conference of the Association for Educational Communications and Technology (AECT). Virtual.
36. Jeon, M., & **Kwon, K**. (2020). *Novice programmers’ understanding and implementations of CS concepts: Focusing on the problem solving represented in the programming environments with different modalities*. Annual Conference of the Association for Educational Communications and Technology (AECT). Virtual.
37. Sankaranarayanan, R., **Kwon, K.**, & Cho, Y. (2020). *The collective working-memory effect and the role of collaborative interactions*. Annual Conference of the Association for Educational Communications and Technology (AECT). Virtual.
38. Weintrop, D., Choi, G. W., Maltese, A., Tissenbaum, M., Fofang, J. S., Walton, M., Walkoe, J., Scott, J., Jung, Y. J., Zimmerman, H. T., DeLiema, D., Dahn, M., Kim, S. H., Copeland, A., Yang, J., Simpson, A., Knox, P., Kim, J., Chan, M., Holbert, N., Flynn, L., **Kwon, K**., OttenbreitLeftwich, A., Brush, T., & Blikstein, P. (2020). What Does Computer Science and Maker Education Look Like in 2030?. In Gresalfi, M. and Horn, I. S. (Eds.), *The Interdisciplinarity of the Learning Sciences, 14th International Conference of the Learning Sciences (ICLS) 2020*, Volume 3 (pp. 1519-1524). Nashville, Tennessee: International Society of the Learning Sciences.
39. Kim, Y., D'Angelo, C., Cafaro, F., Ochoa, X., Espino, D., Kline, A., Hamilton, E., Lee, S., Butail, S., Liu, L., Trajkova, M., Tscholl, M., Hwang, J., Lee, S., & **Kwon, K**. (2020). Multimodal Data Analytics for Assessing Collaborative Interactions. In Gresalfi, M. and Horn, I. S. (Eds.), *The Interdisciplinarity of the Learning Sciences, 14th International Conference of the Learning Sciences (ICLS) 2020*, Volume 5 (pp. 2547-2554). Nashville, Tennessee: International Society of the Learning Sciences.
40. **Kwon, K.,** Leftwich, A., Brush, T. & Jeon, M. (2020, Apr 17 - 21) *Effects of Problem-Based Learning Curriculum for Computer Science Education in an Elementary School* [Paper Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/wl5lak9 (Conference Canceled)
41. Moon, H., Cheon, J. & **Kwon, K.** (2020, Apr 17 - 21). *An Exploration of the Role of Affective Factors on Computational Thinking and Problem Solving* [Paper Session]. AERA Annual Meeting San Francisco, CAhttp://tinyurl.com/wuldmf9 (Conference Canceled)
42. Leftwich, A., Brush, T. & **Kwon, K.** (2020, Apr 17 - 21) *Teaching Computational Thinking With Socially Relevant Problems at the Elementary Level* [Structured Poster Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/y3x6b9ny (Conference Canceled)
43. **Kwon, K.** (2019). *Evaluation of Computational Thinking Reflected in Scratch Projects.* Presented at the 20th Annual Conference of the KOCSEA Technical Symposium. Atlanta, GA.
44. Gok, F. & **Kwon, K.** (2019). *Investigating Professional Development Needs of High School Computer Science Teachers.* Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT). Las Vegas, Nevada.
45. **Kwon, K.**, Ottenbreit-Leftwich, A., Brush, T., Jeon, M., Zhu, M., & Gok, F. (2019). Exploring 6th-grade students’ CT concepts and practices. *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT).* Las Vegas, Nevada.
46. Ottenbreit-Leftwich, A., Brush, T., **Kwon, K.**, Karlin, M., … & Dalkilic, M. (2019). Inspiring the Next Generation of Learners: Using Socially Relevant Computer Science (CS) Problem-Based Learning Curriculum at the 6th Grade Level. *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT).* Las Vegas, Nevada.
47. **Kwon, K.**, & Cheon, J. (2019). After-school coding club: What students learned and how teachers should teach. *Presented at the Annual Conference of the American Educational Research Association (AERA).* Toronto, Canada.
48. Bae, H., & **Kwon, K.** (2019). Teachability of metacognitive skills: What makes students use metacognitive skills? *Presented at the Annual Conference of the American Educational Research Association (AERA).* Toronto, Canada.
49. Hur, G., & **Kwon, K.** (2018). A study on the network analysis of research trends to Scratch programming for smart education: Case of Korea. *Presented at the Annual Conference of the Global Conference on Education and Research (GLCER)*. Las Vegas, Nevada.
50. **Kwon, K.**, Khlaif, Z., Zhu, M., Nadiruzzaman, H., Gok, F., & Sari, A. (2017). Teacher’s self-efficacy toward mobile technology matters. *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT)*. Jacksonville, FL.
51. Meina, Z., Bae, H., **Kwon, K.**, & Park, J. (2017). The effect of instructor guidance on the quality of online discussion. *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT)*. Jacksonville, FL.
52. Bae, H., & **Kwon, K.** (2017). Increasing students’ implementation of metacognitive strategies: What makes students use metacognitive strategies? *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT)*. Jacksonville, FL.
53. **Kwon, K**. & Park, S. (2016). Facilitate meaningful discussion through visual representations. *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT)*. Las Vegas, Nevada.
54. **Kwon, K.,** Shin, S., Khlaif, Z., Nadiruzzaman, H., Park, S., Edelberg. T., Brush, T. A., & Alangari, H.(2016). Screen-casting inquiry behaviors: What can see through students’ mobile devices? *Presented at the Annual Conference of the Korean-American Educational Research Association*. Washington, D.C.
55. Khlaif, Z., Nadiruzzaman, H., & **Kwon, K.** (2016). An analysis of participation and interaction patterns in online learning community: A case study. *Presented at the Annual Conference of the American Educational Research Association*. Washington, D.C.
56. **Kwon, K.** (2015). Practice test as a class activity for pre-service teacher education. *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT)*. Indianapolis, Indiana.
57. Liu, Y., Johnson, L., & **Kwon, K.** (2013). A road from the uncertainty to negotiation – Virtual asynchronous collaboration.*Presented at the Annual Conference of the E-Learn.* Victoria, Canada.
58. **Kwon, K.**, Brown, R., Mudd-Hutcheson, C., Wilden, P., Martin, A., & Clay, R. (2013). Use of educational technologies for Medprep programs. *Presented at the Central/Southern Group on Student Affairs annual meeting*. St Louis, MO.
59. Mudd-Hutchenson, C., Brown, R., **Kwon, K**., Wilden, P., Martin, A., & Clay, R. (2013). Mizzou MedprepAn evolution of a continuum to help prepare individuals to become patient-centered physicians. *Presented at the Central/Southern Group on Student Affairs annual meeting*. St Louis, MO.
60. Brown, R., **Kwon, K.**, Wilden, P., & Mudd-Hutcheson, C. (2012). Mizzou MedPrep: A New Approach to the medical school diversity pipeline. *Presented at the Central Group on Educational Affairs*. St Louis, MO.
61. Brown, R., **Kwon, K.,** Wilden, P., Martin, A., & Mudd-Hutcheson, C. (2012). The Mizzou MedPrep program. *Presented at the Central/Southern Group on Student Affairs annual meeting*. Clearwater, FL.
62. **Kwon, K.,** Han, D. & Bang, E.(2010). Learning social issues by arguing: Practical implementation to sociology education. *Presented at the Annual Conference of the E-Learn.* Orlando, FL.
63. **Kwon, K.**, & Liu, P. (2008). Peer collaboration and decision making: What makes collaboration effective? *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT)*. Orlando, Florida.
64. **Kwon, K.**, & Henry, H. (2008). Facilitating argumentation with tailored guidance. *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT)*. Orlando, Florida.
65. **Kwon, K.** (2006). Research on the developmental process of online group activities. *Presented at the Annual Conference of the Association for Educational Communications and Technology (AECT)*. Dallas, Texas.

# TEACHING

Indiana University Graduate:

* R511 - Instructional Technology Foundations
* R521 - Instructional Design and Development (*in-person & online*)
* R541 - Instructional Development and Production I
* R547 - Computer-Mediated Learning (*online*)
* R685 - Topical Seminar: Instructional Design for Computer-Supported Collaborative Learning (*online*)
* R695 – Doctoral Colloquium & Seminar
* R690 - Application of Research Methods to IST Issues (*online*)

Indiana University Undergraduate:

* W220 - Technical Issues: Computer-Based Education

University of Missouri Graduate:

* IS&LT 7370 - Intermediate Web Development (*online*)

Korea National Open University (Seoul, South Korea) Undergraduate:

* Educational Psychology
* Methodology for Adult Education

# DISSERTATION CHAIR

Indiana University

* Keunjae Kim, Ph.D. Instructional Systems Technology, 2025
* Kerry Lueders, Ed.D. Instructional Systems Technology, 2025
* Fatih Gok, Ph.D. Instructional Systems Technology, 2024
* Aishat Balogun, Ed.D. Instructional Systems Technology, 2024
* Minji Jeon, Ph.D. Instructional Systems Technology, 2023
* Rajagopal Sankaranarayanan, Ph.D. Instructional Systems Technology, 2022
* Kimberly Vincent-Layton, Ed.D. Instructional Systems Technology, 2022
* John Jones, Ed.D. Instructional Systems Technology, 2021

# DISSERTATION COMMITTEE

Indiana University

* Jaeho Jeon, Ph.D. Literacy, Culture, and Language Education, 2025
* Jui-Hsin Hwang, Ph.D. Literacy, Culture, and Language Education, 2024
* Shannon Cooper, Ed.D. Instructional Systems Technology, 2024
* Katie Dixon, Ed.D. Instructional Systems Technology, 2024
* Florentina Closser, Ed.D. Instructional Systems Technology, 2024
* Taufik Slamet, Ph.D. Instructional Systems Technology, 2024
* Hyejeong Lee, Ph.D. Instructional Systems Technology, 2024
* Luca Giupponi, Ed.D. Instructional Systems Technology, 2024
* Tanner Phillips, Ph.D. Instructional Systems Technology, 2023
* Annisa Sari, Ph.D. Instructional Systems Technology, 2023
* Khadijah Alghamdi, Ph.D. Instructional Systems Technology, 2023
* John Falchi, Ed.D. Instructional Systems Technology, 2023
* Jennifer Hatfield, Ed.D. Instructional Systems Technology, 2023
* Thye Ngo, Ph.D. School of Nursing, 2023
* Michele Gribbins, Ed.D. Instructional Systems Technology, 2023
* Jennifer Park, Ph.D. Instructional Systems Technology, 2022
* Amaury de Siqueira, Ph.D. Instructional Systems Technology, 2022
* Zihang Shao, Ph.D. Instructional Systems Technology, 2022
* Elizabeth Van Pate, Ed.D. Instructional Systems Technology, 2022
* Haesol Bae, Ph.D. Instructional Systems Technology, 2021
* Merve Basdogan, Ph.D. Instructional Systems Technology, 2021
* Junghun Lee, Ed.D. Instructional Systems Technology, 2021
* Hamid Nadir, Ph.D. Instructional Systems Technology, 2021
* Darcy Ann Janzen, Ed.D. Instructional Systems Technology, 2019
* Michael Karlin, Ph.D. Instructional Systems Technology, 2019
* Su Jin Park, Ph.D. Literacy Culture, and Language Education, 2019
* Meina Zhu, Ph.D. Instructional Systems Technology, 2019
* Shuya Xu, Ph.D. Instructional Systems Technology, 2018
* Ozgur Ozdemir, Ph.D. Instructional Systems Technology, 2018
* Wenjing Zheng, Ph.D. Special Education, 2017
* Funda Ergulec, Ph.D. Instructional Systems Technology, 2017
* Olgun Sadik, Ph.D. Instructional Systems Technology, 2016
* Suhkyung Shin, Ph.D. Instructional Systems Technology, 2016

Other University

* Da Yae Yang, Ph.D. Learning, Design, and Technology, University of Georgia, 2024

# PROFESSIONAL SERVICE

Editorial Board:

* ETR&D Research Board Member (2024-2026)
* International Journal for Educational Media and Technology (since 2015)
* International Journal of Computer Science Education in Schools (since 2019)
* Psychology and Cognitive Sciences – Open Journal (2018 - 2022)

Editorial Review Board:

* Online Learning Journal (since 2023)

Journal reviews:

* Computers & Education (2014, 2016, 2017, 2018, 2019, 2020)
* Instructional Science (2017, 2018)
* Educational Technology Research and Development (2019 – 2024)
* Journal of Educational Computing Research (2018 – 2022, 2024)
* International Journal of Computer Science Education in Schools (2018 – 2020, 2024)
* Computer Communication & Collaboration (2013)
* The Asia-Pacific Education Researcher (2016, 2018)
* International Journal for Educational Media and Technology (2015, 2017, 2021, 2023)
* Interdisciplinary Journal of Problem-Based Learning (2014, 2016, 2018, 2019, 2020)
* Learning and Individual Differences (2019)
* TechTrends (2018 – 2020)
* Psychology and Cognitive Sciences – Open Journal (2019 – 2021)
* KEDI Journal of Educational Policy (2017)
* Journal of Interactive Online Learning (2011)
* Online Learning Journal (2022 – 2024)

Conference Reviews:

* American Educational Research Association (AERA)
* Association for Educational Communications and Technology (AECT)
* Global Conference on Education and Research (GLCER)
* International Conference on Computer Science and Technologies in Education (CSTE)

National & International Service:

* Program Chair, Computer and Internet Applications In Education SIG, AERA, 2024 – present.
* Committee member, SIG-IT award committee, AERA, 2024 – 2025.
* Co-Chair, Computational Thinking SIG, Society for Information Technology and Teacher Education (SITE), 2022 – 2024.
* Area Chair, The 6th International Conference on Computer Science and Technologies in Education (CSTE), 2024.
* External advisor, Islamic World Educational, Scientific and Cultural Organization (ICESCO), 2022 – present.
* Chair, Board of Directors, Korean-American Educational Researchers Association (KAERA), 2022 – 2023.
* Tenure and Promotion Review, School of Information Science and Learning Technologies, University of Missouri, 2023
* Advisory research member of Seoul Educational Policy Institute, 2019 – present.
* Advisory Committee, Education for Social Responsibility (ESR) Center, Pusan National University, 2022 – present.
* Board of Directors member, Korean-American Educational Researchers Association (KAERA), 2020 – 2022.
* Program committee, Big10CSMaker Conference, Bloomington, IN, 2019.
* Committee of Korean-American Educational Researchers Association (KAERA) Outstanding Research Paper Award, Chair: 2019-2020; Committee member: 2018-2019.
* DDL Crystal Award reviewer, AECT Division of Distance Learning, 2017.
* DDL Journal Article Award reviewer, AECT Division of Distance Learning, 2017.
* Co-chair, KAERA Conference, 2016-2018.
* Planner, AECT 2016 Convention, 2015-2016.
* Facilitator, Celebration of Teaching Conference, 2011-2012.
* Facilitator, Association for Educational Communications and Technology Annual Meeting, 2008.

University & School Service:

* Policy Council, School of Education, Indiana University, 2023 – present
* Search Committee for Vice President for Human Resources, 2024 – 2025
* Chair, Barbara B. Jacobs Chair Selection Committee, 2024
* Search Committee for Clinical Assistant Professor of Curriculum and Instruction: Science Education, 2024
* Graduate Housing Committee, Indiana University, 2023.
* International Programs Committee, School of Education, Indiana University, 2021 – 2023.
* Graduate Studies Committee, School of Education, Indiana University, 2020 – 2023.
* Diversity Equity and Inclusion Ambassador, School of Education, Indiana University, 2020 – 2021.
* Learning and Teaching with Technology Committee, School of Education, Indiana University, 2018 – 2021.
* Faculty Affairs Committee, School of Education, Indiana University, 2017 – 2020.
* Research collaborator with Jacobs Educator Award recipient (Leon Tynes), 2019.
* Staff Merit Awards Committee, Indiana University, 2014-2017.
* Discussant, Preparing Future Faculty Conference, Jan. 2015.
* Facilitator, Celebration of Teaching Annual Meeting, 2011-2014.
* Mentor, TeAchnology Workshop, 2011 and 2013.

Other:

* Coach, Robotics Club, Childs Elementary School, Bloomington, IN, 2019-2023.
* Board Member, Child Development Center, Columbia, MO, Jan. 2007-June 2010.
* Volunteer Teacher, Columbia Korean School, Columbia, MO, Jan. 2006-Dec. 2006.
* Media Mission Director, Columbia Korean Baptist Church, Columbia, MO, Jan. 2006-2014.

# CERTIFICATION

* Indiana Computer Education (2015): Indiana CORE Assessments for educator licensure.
* QualityMatters Certified Peer Reviewer (2010): Quality Matters (QM) is a faculty-centered, peer review process that is designed to certify the quality of online and blended courses.
* Cognitive Coaching Seminars® Foundation Training – Days 1-4 (2012): Cognitive Coaching is a model that supports individuals and organizations in becoming self-directed, and in turn, become self-managing, self-monitoring and self-modifying.

# PROFESSIONAL AFFILIATIONS

* American Educational Research Association
* Association for Educational Communications & Technology
* Association for Computing Machinery
* Society for Information Technology and Teacher Education