CHANMIN KIM

Degrees Earned

Ph. D.: Instructional Systems, Florida State University, Tallahassee, FL
M. Ed.: Educational Media and Technology, Boston University, Boston, MA
M. Ed.: Educational Technology, Yonsei University, Seoul, South Korea
B. A.: Special Education, Ewha Woman's University, Seoul, South Korea

Academic Positions

2025-present	Professor of Learning, Design, and Technology in the Department of Learning and Performance Systems, Pennsylvania State University
2023-present	Affiliate of Center for Socially Responsible Artificial Intelligence; Social Science Research Institute, Pennsylvania State University
2023-2025	Associate Professor of Learning, Design, and Technology in the Department of Learning and Performance Systems, Pennsylvania State University
2018-2023	Associate Professor of Learning, Design, and Technology in the Department of Learning and Performance Systems; Educational Psychology in the Department of Educational Psychology, Counseling, and Special Education, Pennsylvania State University
2016-2018	Associate Professor of Learning, Design, and Technology in the Department of Career and Information Studies**,** University of Georgia
2010-2016	Assistant Professor of Learning, Design, and Technology in the Department of Career and Information Studies (Department name changed from Educational Psychology and Instructional Technology in 2013), University of Georgia
2009-2010	Temp. Assistant Professor of Learning, Design, and Technology in the Department of Educational Psychology and Instructional Technology; Research Scientist in the Learning and Performance Support Laboratory, University of Georgia
2008	Research Scientist, Learning Systems Institute, Florida State University

RESEARCH

Overview

Researches transformative methods and designs for teacher learning and improving STEM education and AIED; Received 6 externally funded grants; Published 61 peer-reviewed journal articles and 51 book chapters and proceedings (49 journal articles co-authored with graduate students); h-index = 34; i10-index = 56

Research Awards

Faculty Research Program Award (2017), College of Education, University of Georgia: *Learning of children with autism spectrum disorder to debug and communicate through programming dramatic play.*

Best Proposal Award (2013), Teacher Education Division, Total proposals submitted to the division = 99, Assoc. for Educ. Communications and Technology (AECT), Anaheim, CA.

Selected Junior Faculty for Research and Theory Invited Session (2010) selected by Research & Technology Division as one of two junior faculty who have great potential in making a big impact in the field of instructional technology, AECT, Anaheim, CA.

Grants

Externally Funded Grants (6 grants secured worth a total of $4,472,695)

Passonneau, R. J. (PI), & **Kim, C. (Co-PI).** *Collaborative research: Supporting science learning and teaching in middle school classrooms through automated analysis of students' writing.* National Science Foundation, Discovery Research PreK-12 (DRK-12; Award # 2010351). $1,477,256. 2020-2025. [This collaboration is with PI Sadhana Puntambekar at the University of Wisconsin-Madison]

Kim, C. (PI), & Hill, R. B. (Co-PI). *Collaborative research: Scaffolding preservice early childhood teachers to debug during block-based programming.* National Science Foundation, Improving Undergraduate STEM Education (IUSE; Award # 1712286; 1927595). $163,227. 2017-2023. [This collaboration is with PI Brian Belland at the Pennsylvania State University]

Foutz, T. (PI), Conner, A. (Co-PI), **Kim, C. (Co-PI)**, Hill, R. B. (Co-PI), & Crawford, B. (Co-PI). *Using collective argumentation to develop teaching practices integrating coding within the science and math curriculum (grades 3-5).* National Science Foundation, STEM+C Partnerships (STEM+C; Award # 1741910). $2,125,570. 2017-2023.

Choi, Y. J. (PI), Orpinas, P. (PI), **Kim, C. (Co-PI)**, & Cater, N. T. (Co-PI). *Promoting victim safety in immigrant communities: Virtual case simulation training for religious leaders*. National Institute for Justice, Office on Violence against Women Research and Evaluation Initiative. $449,889. 2018-2020.

Rubenstein, E. (PI), **Kim, C. (Co-PI)**, Fuhrman, N. (Co-PI), Newberry, M. (Co-PI), & Rieber, L. (Co-PI). *"TREASURE" SAE: Teacher rejuvenation for enhancing agriscience students' utilization of real-world experienc*es. US Department of Agriculture, Agriculture and Food Research Initiative, Professional Development for Secondary School Teachers and Educational Professionals. $149,724. 2017-2019.

Spector, J. M. (PI) & **Kim, C. (Co-PI)**. *Technology integration in rural K-8 Schools in the southeast*. US Department of Education, Comprehensive School Reform Quality Initiatives. $107,029. 2009-2011.

Internally Funded Grants

Backman, M. (PI), **Kim, C. (Co-PI)**, Passonneau, R.J., (Co-PI), & Pearl, D. (Co-PI), *Comparative analysis of AI models and human judgments for evaluation of student writing with and without non-normative use of English language.* Penn State Center for Socially Responsible Artificial Intelligence. $25,000. 2025-2026.

Kim, C. (PI), Belland, B. R. (Co-PI), Brobst, M. (Co-PI), Ortega, M. (Co-PI) & Huang, S. (Co-PI). *Optimizing ambient cues for Latinx youth through culturally relevant use of generative AI.* Penn State Social Science Research Institute. $20,000. 2024-2025.

Lee, D. (PI) & **Kim, C. (Co-PI).** *Mitigating linguistic discrimination of LLMs in assessing English learners*. Penn State Center for Socially Responsible Artificial Intelligence. $25,000. 2024-2025.

Huang, S. (PI), & **Kim, C. (Co-PI).** *AI learning to retrieve and generate educational videos with equitable ambient cues*. Penn State College of Informational Sciences and Technology (IST). $34,000. 2023-2024.

Kim, C. (PI), Chatters, S. (Co-PI), & Davis, F. (Co-PI). *Study of ambient identity cues in elementary STEM classrooms*. Penn State College of Education. 2022-2023.

Carroll, J. M. (PI), **Kim, C. (Co-PI),** & Zhang, H. (Co-PI). *Optimizing large-scale language model-based AI integration and human-computer interaction in educational scenarios*. Penn State Center for Socially Responsible Artificial Intelligence. $49,934, 2023-2024.

Kim, C. (PI), Doshi, P. (Co-PI), & Hill, R. B. (Co-PI). *RoboSTEM for STEM engagement, learning, and teaching.* Office of Vice President for Research, Interdisciplinary Proposal Development Grant, University of Georgia. $45,912. 2014-2015.

Kim, C. (PI), & Hill, R. B. (Co-PI). *RoboTube: Technology to promote preservice teachers' STEM engagement, learning, and teaching*. Provost Summer Research Grant, University of Georgia. $10,000. 2014.

Saltz, D. (PI), Thai, C. (Co-PI), & **Kim, C. (Co-PI)**. *STEAM learning with humanoid robotics.* Core Robotics Research Grant Program, Faculty of Robotics, Univ. of Georgia, $10,000, 2014.

Kim, C. (PI), Doshi, P. (Co-PI), & Thai, C. (Co-PI). *Robotics technology for students in teacher education.* Learning Technologies Grant, Center for Teaching and Learning, University of Georgia.

$25,000. 2013-2014.

Kim, C. (PI). *Volitional control support for adolescents' learning and performance*. Summer Research Grant, College of Education, University of Georgia. $5,000. 2013.

Kim, C. (PI). *Online mathematics motivation and learning*. Summer Research Grant, College of Education, University of Georgia. $5,000. 2012.

Kim, C. (PI). *Promoting student success in virtual high school mathematics courses*. Early Career Faculty Grant, College of Education, University of Georgia. $6,000. 2010-2011.

Kim, C. (PI). *Academic emotions, motivation, self-regulation in online mathematics courses*. Office of Vice President for Research, University of Georgia. $10,000. 2010-2011.

Publications ([+] graduate students; [++] undergraduate students)

Peer-Reviewed Journal Articles

1. **Kim, C**., Passonneau, R. J., [+]Lee, E., [+]Sheikhi Karizaki, M., Gnesdilow, D., & Puntambekar, S. (2025). NLP-enabled automated assessment of scientific explanations: Towards eliminating linguistic discrimination. *British Journal of Educational Technology.* https://doi.org/10.1111/bjet.13596 [ISI indexed journal; 2024 5-year impact factor: 8.1]
2. [+]Dinç, E., & **Kim, C**. (2025). Visual programming as an instrument for prospective teachers' reasoning in geometric pattern generalization. *Education and Information Technologies*, *30*(16), 23077–23109. https://doi.org/10.1007/s10639-025-13618-1 [ISI indexed journal; 2024 5-year impact factor: 5.7]
3. Belland, B. R., [+]Zhang, A. Y., [+]Lee, E., [+]Dinç, E., & **Kim, C**. (2025). Predicting the quality of robotics-enhanced lesson plans using motivation, academic standing, and collaboration status. *Journal of Computing in Higher Education,* 37(3), 1056–1077. https://doi.org/10.1007/s12528-024-09415-3 [ISI indexed journal; 2023 5-year impact factor: 5.2]
4. Choi, Y. J., Orpinas, P., Han, J.-Y., Han, J., Park, S. J., Lee, H. A., Yoon, Y., Cho, S., Ahn, K., Li, T., & **Kim, C.** (2025). Interventions that matter: Researcher-practitioner partnership in intimate partner prevention in immigrant communities: A brief report. *Journal of Family Violence*, 1–10. https://doi.org/10.1007/s10896-025-00904-2
5. **Kim, C**., Belland, B. R., [+]Vasconcelos, L., & Hill, R. B. (2024). Playful programming, social resilience, and persistent actions as drivers of preservice early childhood teachers' engagement in computer science. *Sage Open*, *14*(4). https://doi.org/10.1177/21582440241284488. [ISI-indexed; 2023 5-year impact factor: 2.3]
6. [+]Vasconcelos, L., [+]Gleasman, C., [+]Umutlu, D., & **Kim, C.** (2024). Epistemic agency in preservice teachers' science lessons with robots. *Journal of Science Education and Technology*, *33*(3), 400–410. https://doi.org/10.1007/s10956-024-10092-1 [ISI-indexed journal; 2023 5-year impact factor: 4.2]
7. Belland, B. R., **Kim, C.,** [+]Dinç, E., & [+]Zhang, A. Y. (2024). Transfer of responsibility from scaffolding to preservice early childhood teachers learning to debug. *Educational Technology Research and Development, 72,* 1439–1464. https://doi.org/10.1007/s11423-024-10347-z [ISI-indexed journal; 2023 5-year impact factor: 4.8]
8. **Kim, C.,** [+]Dinç, E., [+]Lee, E., [+]Baabdullah, A., [+]Zhang, A. Y., & Belland, B. R. (2023). Revisiting analogical reasoning in computing education: Use of similarities between robot programming tasks in debugging. *Journal of Educational Computing Research, 61*(5), 1036-1063. https://doi.org/10.1177/07356331221142912 [ISI-indexed journal; 2023 5-year impact factor: 5]
9. Belland, B. R., **Kim, C.,** [+]Zhang, A. Y., & [+]Lee, E. (2023). A generalized estimating equations approach to investigate predictors of teacher candidates' views of coding. *ACM Transactions on Computing Education, 23*(2), 29.1-29.23 https://doi.org/10.1145/3587163 [ISI-indexed journal; 2023 5-year impact factor: 3.9]
10. Choi, Y. J., Orpinas, P., [+]Li, T., [+]Han, J.-Y., [+]Cho, S., & **Kim, C.** (2023). Promoting survivor safety in immigrant communities: Online simulation training for Korean American faith leaders.

Journal of Interpersonal Violence, 38(3-4), 2387-2409. https://doi.org/10.1177/08862605221101189 [ISI-indexed journal; 2023 5-year impact factor: 2.8]

11. **Kim, C.**, [+]Gleasman, C., [+]Boz, T., [+]Park, H., & Foutz, T. (2022). Learning to teach coding through argumentation. *Computers & Education Open, 3,* 1-17. https://doi.org/10.1016/j.caeo.2022.100107 [ISI-indexed journal; 2023 5-year impact factor: 4]
12. **Kim, C.**, [+]Vasconcelos, L., Belland, B. R., [+]Umutlu, D., & [+]Gleasman, C. (2022). Debugging behaviors of novice programing learners with or without scaffolding. *International Journal of Educational Technology in Higher Education, 19*(1), 26. https://doi.org/10.1186/s41239-022-00319-9 [ISI-indexed journal; 2023 5-year impact factor: 9.9]
13. Belland, B. R., **Kim, C.**, [+]Zhang, A., [+]Lee, E., & [+]Dinç, E. (2022). Classifying the quality of robotics-enhanced lesson plans using motivation variables, word count, and sentiment analysis of reflections. *Contemporary Educational Psychology, 69.* https://doi.org/10.1016/j.cedpsych.2022.102058 [ISI-indexed journal; 2023 5-year impact factor: 8.2]
14. Belland, B. R., [+]Lee, E., [++]Zhang, A., & **Kim, C.** (2022). Characterizing the most effective scaffolding approaches in engineering and technology education: A clustering approach. *Computer Applications in Engineering Education, 30*(6), 1795-1812. http://doi.org/10.1002/cae.22556 [ISI-indexed journal; 2023 5-year impact factor: 2.2]
15. Orpinas, P., Choi, Y. J., **Kim, C.**, [+]Li, T., & [+]Kim, E. (2022). Prevention of partner violence: Virtual case simulation for religious leaders of Korean American immigrant communities. *Health Promotion International*, 37(1) https://doi.org/10.1093/heapro/daab092 [ISI-indexed journal; 2023 5-year impact factor: 2.8]
16. [+]Vasconcelos, L., & **Kim, C.** (2022). Preservice science teachers coding science simulations: Epistemological understanding, coding skills, and lesson design. *Educational Technology Research and Development, 70*, 1517–1549. https://doi.org/10.1007/s11423-022-10119-7 [ISI-indexed journal; 2023 5-year impact factor: 4.8]
17. [+]Yuan, J., **Kim, C.**, [+]Vasconcelos, L., [+]Shin, M., [+]Gleasman, C., & [+]Umutlu, D. (2022). Pre-service elementary teachers' engineering design during a robotics project. *Contemporary Issues in Technology and Teacher Education – Science, 22*(1), 74-104. https://www.learntechlib.org/primary/p/215681/
18. **Kim, C.**, Belland, B. R., [+]Baabdullah, A. [+]Lee, E., [+]Dinc, E., & [++]Zhang, A. Y. (2021). An ethnomethodological study of abductive reasoning while tinkering. *AERA Open, 7.* https://doi.org/10.1177/23328584211008111 [ISI-indexed journal; 2022 impact factor: 2.8]
19. Belland, B R., **Kim, C.**, [++]Zhang, A. Y., [+]Baabdullah, A., & [+]Lee, E. (2021). Using Bayesian regression to predict the quality with which preservice, early childhood teachers debugged higher and lower-complexity programs. *IEEE Transactions on Education,* 1-9. https://doi.org/10.1109/TE.2021.3059258 [ISI-indexed journal; 2023 5-year impact factor: 2.4]
20. [+]Ding, L., **Kim, C.**, & Orey, M. (2020). Design of gamified asynchronous online discussions. *Technology, Pedagogy and Education*, *29*(5), 631-647 https://doi.org/10.1080/1475939X.2020.1801495 [ISI-indexed journal; 2022 5-year impact factor: 3.9]
21. [+]Gleasman, C., & **Kim, C.** (2020). Pre-service teacher's use of block-based programming and computational thinking to teach elementary mathematics. *Digital Experiences in Mathematics Education*, *6*(1), 52–90. https://doi.org/10.1007/s40751-019-00056-1
22. [+]Umutlu, D., & **Kim, C.** (2020). Design guidelines for scaffolding pre-service teachers' reflection-in-action toward culturally responsive teaching. *Reflective Practice*, *21*(5), 587-603. https://doi.org/10.1080/14623943.2020.1779049 [ISI-indexed journal; 2023 5-year impact factor: 1.9]
23. [+]Vasconcelos, L., & **Kim, C.** (2020). Preparing preservice teachers to use block-based coding in scientific modeling lessons. *Instructional Science*, *48*(6), 765–797.

https://doi.org/10.1007/s11251-020-09527-0 [ISI-indexed journal; 2023 5-year impact factor: 3.2]

24. +Vasconcelos, L., & **Kim, C.** (2020). Coding in Scientific Modeling Lessons (CS-ModeL). *Educational Technology Research and Development*, *68*(3), 1247–1273. https://doi.org/10.1007/s11423-019-09724-w [ISI-indexed journal; 2023 5-year impact factor: 4.8]
25. **Kim, C**., +Yuan, J., +Kim, D., Doshi, P., Thai, C. N., Hill, R. B., & ++Melias, E. (2019). Studying the usability of an intervention to promote teachers' use of robotics in STEM education. *Journal of Educational Computing Research*, *56*(8), 1179–1212. https://doi.org/10.1177/0735633117738537 [ISI-indexed journal; 2023 5-year impact factor: 5]
26. +Yuan, J., Kim, C., Hill, R. B., & +Kim, D. (2019). Robotics integration for learning with technology. *Contemporary Issues in Technology and Teacher Education, 19*, 708-735. https://www.learntechlib.org/primary/p/184604/
27. **Kim, C.**, +Yuan, J., +Vasconcelos, L., +Shin, M., & Hill, R. B. (2018). Debugging during block-based programming. *Instructional Science, 46*(5), 767-787. https://doi.org/10.1007/s11251-018-9453-5 [ISI-indexed journal; 2023 5-year impact factor: 3.2]
28. +Yuan, J., & **Kim, C.** (2018). The effects of autonomy support on student engagement in peer assessment. *Educational Technology Research and Development, 66*(1), 25-52. http://doi.org/10.1007/s11423-017-9538-x [ISI-indexed journal; 2023 5-year impact factor: 4.8]
29. +Ding, L., **Kim, C.**, & Orey, M. (2017). Studies of student engagement in gamified online discussions. *Computers & Education*, *115,* 126–142. https://doi.org/10.1016/j.compedu.2017.06.016 [ISI-indexed journal; 2023 5-year impact factor: 11.6]
30. +Er, E., & **Kim, C.** (2017). Episode-centered guidelines for teacher belief change toward technology integration. *Educational Technology Research and Development, 65*(4), 1041-1065. https://doi.org/10.1007/s11423-017-9518-1 [ISI-indexed journal; 2023 5-year impact factor: 5.4]
31. +Lee, C., & **Kim, C.** (2017). A technological pedagogical content knowledge based instructional design model: A third version implementation study in a technology integration course. *Educational Technology Research and Development*, *65*(6), 1627-1654. https://doi.org/10.1007/s11423-017-9544-z [ISI-indexed journal; 2023 5-year impact factor: 4.8]
32. **Kim, C.**, +Park, S. W., Huynh, N., & +Schuermann, R. T. (2017). University students' motivation, engagement and performance in a large lecture-format general education course. *Journal of Further and Higher Education, 41*(2), 201-214. http://doi.org/10.1080/0309877X.2015.1070401 [ISI-indexed journal; 2023 5-year impact factor: 2.2]
33. **Kim, C.**, & +Bennekin, K. N. (2016). The effectiveness of volition support (VoS) in promoting students' effort regulation and performance in an online mathematics course. *Instructional Science, 44*(4), 359–377. https://doi.org/10.1007/s11251-015-9366-5 [ISI-indexed; 2023 5-year impact factor: 3.2]
34. +Park, S., & **Kim, C.** (2016). The effects of a virtual tutee system on academic reading engagement in a college classroom. *Educational Technology Research and Development, 64*(2), 195-218. http://doi.org/10.1007/s11423-015-9416-3 [ISI-indexed; 2023 5-year impact factor: 4.8]
35. **Kim, C**., +Kim, D., +Yuan, J., Hill, R. B., Doshi, P., & Thai, C. N. (2015). Robotics to promote elementary education preservice teachers' STEM engagement, learning, and teaching. *Computers & Education, 91*, 14-31. http://doi.org/10.1016/j.compedu.2015.08.005 [ISI-indexed; 2023 5-year impact factor: 11.6]
36. **Kim, C**., +Park, S. W., Cozart, J., & +Lee, H. (2015). From motivation to engagement: Effort regulation of virtual high school students in math courses. *Educational Technology & Society, 18*(4), 261-272. http://www.ifets.info/journals/18_4/20.pdf [ISI-indexed; 2023 5-year impact factor: 4.7]
37. +Lin, Y., & **Kim, C.** (2015). Open educational resources and open language learning of Taiwanese adult learners. *International Journal of Online Pedagogy and Course Design, 5*(2), 58-72. http://doi.org/10.4018/IJOPCD.2015040105 [ISI-indexed; 2023 5-year impact factor: 0.6]

38. [+]Park, S. W., & **Kim, C.** (2015). Boosting learning-by-teaching in virtual tutoring. *Computers & Education, 82*, 129-140. http://doi.org/10.1016/j.compedu.2014.11.006 [ISI-indexed; 2023 5-year impact factor: 11.6]
39. [+]Yuan, J., & **Kim, C.** (2015). Effective feedback design using free technologies. *Journal of Educational Computing Research, 52*(3), 408-434. http://doi.org/10.1177/0735633115571929 [ISI-indexed; 2023 5-year impact factor: 5]
40. **Kim, C.**, [+]Park, S. W., & Cozart, J. (2014). Affective and motivational factors of online math learning. *British Journal of Educational Technology, 45*(1), 171-185. http://doi.org/10.1111/j.1467-8535.2012.01382.x [ISI-indexed; 2023 5-year impact factor: 7.2]
41. [+]Lee, C., & **Kim, C.** (2014). An implementation study of a TPACK-based instructional design model in a technology integration course. *Educational Technology Research and Development, 62*(4), 437–460. http://doi.org/10.1007/s11423-014-9335-8 [ISI-indexed; 2023 5-year impact factor: 4.8]
42. [+]Lee, C., & **Kim, C.** (2014). The second prototype of the development of a technological pedagogical content knowledge based instructional design model: An implementation study in a technology integration course. *Contemporary Issues in Technology and Teacher Education, 14*(3), 297-326. http://www.citejournal.org/vol14/iss3/general/article2.cfm
43. [+]Park, S., & **Kim, C.** (2014). Virtual Tutee System: A potential tool for enhancing academic reading engagement. *Educational Technology Research and Development, 62*(1), 71-97. http://doi.org/10.1007/s11423-013-9326-1 [ISI-indexed; 2023 5-year impact factor: 4.8]
44. Spector, J. M., & **Kim, C.** (2014). Technologies for intentional learning: Beyond a cognitive perspective. *Australian Journal of Education, 58*(1), 9-21. http://doi.org/10.1177/0004944113517828 [ISI-indexed; 2023 5-year impact factor 2.4]
45. [+]Yuan, J., & **Kim, C.** (2014). Guidelines for facilitating the development of learning communities in online courses. *Journal of Computer Assisted Learning, 30*(3), 220-232. http://doi.org/10.1111/jcal.12042 [ISI-indexed; 2023 5-year impact factor 5.4]
46. **Kim, C.**, [+]Kim, M., [+]Lee, C., Spector, J. M., & DeMeester, K. (2013). Teacher beliefs and technology integration. *Teaching and Teacher Education, 29*, 76-85. http://doi.org/10.1016/j.tate.2012.08.005 [ISI-indexed; 2023 5-year impact factor: 4.5] – ***the most cited article among articles published in the journal since 2013 as of 4/2/2018.***
47. **Kim, C**., & [+]Bennekin, K. N. (2013). Design and implementation of volitional control support in mathematics courses. *Educational Technology Research and Development, 61*(5), 793-817. http://doi.org/10.1007/s11423-013-9309-2 [ISI-indexed; 2023 5-year impact factor:4.8]
48. Belland, B., **Kim, C.**, & Hannafin, M. J. (2013). A framework for designing scaffolds that improve motivation and cognition. *Educational Psychologist, 8*(4), 243-270. http://doi.org/10.1080/00461520.2013.838920 [ISI indexed; 2023 5-year impact factor: 15.1]
49. Hodges, C., & **Kim, C.** (2013). Improving college algebra students' attitudes toward mathematics. *TechTrends, 57*(4), 59-66. http://doi.org/10.1007/s11528-013-0679-4 [ISI-indexed; 2023 5-year impact factor: 2.8]
50. **Kim, C.** (2012). The role of affective and motivational factors in designing personalized learning environments. *Educational Technology Research and Development, 60*(4), 563-584. http://doi.org/10.1007/s11423-012-9253-6 [ISI-indexed; 2023 5-year impact factor: 4.8]
51. **Kim, C.**, & Hodges, C. B. (2012). Effects of an emotion control treatment on academic emotions, motivation and achievement in an online mathematics course. *Instructional Science, 40*(1), 173-192. http://doi.org/10.1007/s11251-011-9165-6 [ISI-indexed; 2023 5-year impact factor: 3.2]
52. [+]Park, S., & **Kim, C.** (2012). A design framework for a virtual tutee system to promote academic reading engagement in a college classroom. *Journal of Applied Instructional Design, 2*(1), 17-33.
53. Spector, J. M. & **Kim, C.** (2012). A model-based approach for assessment and motivation. *Computer Science and Information Systems, 9*(3). 893-915. https://doi.org/10.2298/CSIS111226016S [ISI-indexed; 2023 impact factor: 1.1]
54. **Kim, C.**, & Keller, J. (2011). Towards technology integration: The impact of motivational and

volitional email messages. *Educational Technology Research and Development, 59*(1), 91-111. http://doi.org/10.1007/s11423-010-9174-1 [ISI-indexed; 2023 5-year impact factor: 4.8]

55. [+]Samuel, R., **Kim, C.**, & Johnson, T. (2011). A study of a social annotation modeling learning system. *Journal of Educational Computing Research, 45*(1), 117-137. http://doi.org/10.2190/EC.45.1.f [ISI-indexed; 2023 impact factor: 5]
56. **Kim, C.**, & Keller, J. (2010). Motivation, volition, and belief change strategies to improve mathematics learning. *Journal of Computer Assisted Learning, 26*(5), 407-420. http://doi.org/10.1111/j.1365-2729.2010.00356.x [ISI-indexed; 2023 5-year impact factor 5.4]
57. Hodges, C., & **Kim, C.** (2010). Email, self-regulation, self-efficacy, and achievement in a college online mathematics course. *Journal of Educational Computing Research, 43*(2), 207-223. http://doi.org/10.2190/EC.43.2.d [ISI-indexed; 20235-year impact factor: 5]
58. **Kim, C.**, & Baylor, A. L. (2008). A virtual change agent (VCA) to motivate pre-service teachers to integrate technology. *Educational Technology & Society, 11*(2), 309-321. http://www.ifets.info/journals/11_2/22.pdf [ISI-indexed; 2023 5-year impact factor: 4.7]
59. **Kim, C.**, & Keller, J. M. (2008). Effects of motivational and volitional email messages (MVEM) with personal messages on undergraduate students' motivation, study habits and achievement. *British Journal of Educational Technology, 39*(1), 36-51. http://doi.org/10.1111/j.1467-8535.2007.00701.x [ISI indexed; 2023 5-year impact factor: 7.2]
60. **Kim, C.** (2008). Using email to enable E^3 (effective, efficient, and engaging) learning. *Distance Education*, *29*(2), 187-198. http://doi.org/10.1080/01587910802154988 [ISI indexed; 2023 5-year impact factor: 5.4]

Editor-Reviewed Journal articles

1. **Kim, C.** (2014). Game or no game. *TechTrends, 58*(1), 14.
2. [+]Lin, Y., & **Kim, C.** (2013). Professional development for personalized learning (PD4PL) guidelines. *Educational Technology, 53*(3), 21-27.

Chapters in Books

1. Conner, A., Crawford, B. A., Foutz, T., Hill, R. B., Jackson, D. F., **Kim, C.**, & Thompson, S. A. (2020). Argumentation in primary grades STEM instruction: Examining teachers' beliefs and practices in the USA. In J. Anderson & Y. Li (Eds.), *Integrated approaches to STEM education: An international perspective* (pp. 427-446). Cham, Switzerland: Springer International Publishing. http://doi.org/10.1007/978-3-030-52229-2_23
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Keller, J. (2013). *Motivational design for learning and performance: The ARCS model approach.* (I. Jo, **C. Kim**, H. Heo, & S. Suh, Trans.). Seoul, S. Korea: *Academy Press. (Original work published in 2010).*

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Editorship or Editorial Board Member of National Journals

Associate Editor, 2023 – 2025: *Review of Educational Research*

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Conference Presentations

Puntambekar, S. Gnesdilow, D., & **Kim, C.** (2025) Teachers as collaborators to design automated feedback for students' written science explanations. Presented at the American Educational Research Association (AERA) Annual Meeting, Denver, CO.

Kim, C., [+]Zhang, A. Y., [+]Lee, E., [+]Dinç, E., Belland, B. R., [+]Baabdullah, A., & Belland, B. R. (2025). Quantified analysis of analogical reasoning during debugging among novice programing learners. Presented at the American Educational Research Association (AERA) Annual Meeting, Denver, CO.

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Kim, C., [+]Dinç, E., [+]Lee, E., Baabdullah, A., [+]Zhang, A. Y., & Belland, B. R. (2022). Discovery of similarities across debugging tasks in relations within and between virtual and physical objects. Presented at the International Conference of the Learning Sciences (ICLS), Virtual.

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Kim, C., Belland, B., & Gleasman, C. (2020). Playful coding and playful learning among future early childhood educators. International Conference of the Learning Sciences (ICLS), Virtual.

[+]Umutlu, D. & **Kim, C.** (2020) iReflectNow: Scaffolding for preservice teachers' reflection-in-action for culturally responsive teaching [Paper Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/uqbs7xg (Conference Canceled)

Kim, C., Belland, B. R. & [+]Umutlu, D. (2020) Epistemological pluralism for diversifying preservice early childhood teachers' programming experience [Roundtable Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/vg5waxo (Conference Canceled)

Kim, C., Belland, B. R., [+]Vasconcelos, L. & Hill, R. B. (2020) Reaction to bugs during robot programming [Roundtable Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/sss72dc (Conference Canceled)

[+]Vasconcelos, L. & **Kim, C.** (2020) Using block-based coding to promote preservice teachers' epistemological understanding of scientific models and modeling [Poster Session]. AERA Annual

Meeting San Francisco, CA http://tinyurl.com/s9v63zn (Conference Canceled)

Belland, B. R., **Kim, C.**, [+]Lee, E. & [++]Zhang, Y. (2020) Customized scaffolding for preservice teachers' problem solving in STEM [Paper Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/sovlpuf (Conference Canceled)

Belland, B. R., **Kim, C.**, [+]Lee, E., [+]Baabdullah, A. & [++]Zhang, Y. (2020) A study of predictors for debugging quality among preservice, early childhood teachers [Poster Session]. AERA Annual Meeting San Francisco, CA http://tinyurl.com/vwjdsgb (Conference Canceled)

[+]Gleasman, C., & **Kim, C.** (2020). Understanding how teachers learn to connect computational thinking and mathematics within a coding environment. Presented at the Association for Educational Communications and Technology International Convention. Virtual.

[+]Umutlu, D., & **Kim, C.** (2019). Pre-service teachers' learning to reflect critically for culturally responsive teaching. Presented at the European Association for Research on Learning and Instruction (EARLI) Intl. Conf. 2019, Aachen, Germany.

[+]Vasconcelos, L., & **Kim, C.** (2019). Integrating block-based coding into scientific modeling lessons. Presented at the Annual Meeting of the American Educational Research Association (AERA), Toronto, Canada.

Crawford, B., Conner, A., & **Kim, C.** (2019). Learning to teach coding using collective argumentation in elementary classrooms. Presented at the Annual Meeting of the National Association of Research in Science Teaching (NARST), Baltimore, MD.

Foutz, T., **Kim, C.**, [+]Boz, T., & [+]Gleasman, C. (2019). Teaching coding to elementary students: The use of collective argumentation. Presented at the American Society of Engineering Education (ASEE) Annual Conference & Exposition, Salt Lake City, UT.

Foutz, T., Hill, R. B., Crawford, B. A., Thompson, S. A., Conner, A., **Kim, C**., & Jackson, D. F. (2019). Collective argumentation: Integration of coding into mathematics and science learning. Presented at the American Society of Engineering Education (ASEE) Annual Conference & Exposition, Salt Lake City, UT.

Crawford, B., Conner, A., Foutz, T., Hill, R. B., **Kim, C.**, Jackson, D., & Thompson, S. A. (2019). A STEM project using collective argumentation. Presented at the European Science Education Research Association (ESERA) Conference, Bologna, Italy.

Rubenstein, E. D., Fuhrman, N. E., Rieber, L. P., & **Kim, C.** (2019). TREASURE SAE: The teacher rejuvenation for enhancing agriscience students' utilization of real-world experiences virtual simulation game. Presented at the North American Colleges and Teachers of Agriculture, Twin Falls, ID.

Orpinas, P., Choi, Y. J., **Kim, C.**, [+]Kim, E., [+]Li, T., & [++]Kraus, C. (2019). Prevention of intimate partner violence: Development of a virtual case simulation training for religious leaders of immigrant communities. Presented at the APHA Annual Meeting and Expo, Philadelphia, PA.

Foutz, T., **Kim, C**., Conner, A., Hill, R. B., Crawford, B. A., Everett, D., & Thompson, S. A. (2018). Using collective argumentation to develop teaching practices integrating coding within the science and math curriculum (grades 3-5). Presented at the National Science Foundation (NSF) Discovery Research PreK-12 (DRK-12) PI Meeting, Washington, D.C.

[+]Umutlu, D., & **Kim, C.** (2018). Strategies for scaffolding pre-service teachers' reflection on culturally relevant pedagogy. Paper presented at the American Educational Research Association (AERA) Conference, New York, NY.

[+]Vasconcelos, L. & **Kim, C.** (2018). Preparing teachers for scientific modeling instruction using coding. Presented at the 2018 Association for Educational Communications and Technology International Conference, Kansas City, MO.

Hill, R. B., **Kim, C**., & [+]Yuan, J. (2018, June). Robotics and coding in primary grades. Presented at the International Conference on Technology and Innovation in Learning, Teaching, and Education, Thessaloniki, Greece.

Kim, C., [+]Yuan, J., [+]Gleasman, C., [+]Shin, M., & Hill, R. B. (2017). Preparing pre-service early childhood teachers to teach mathematics with robots. Presented at the 12th International Conference on

Computer Supported Collaborative Learning (CSCL), Philadelphia, PA.

Kim, C., [+]Yuan, J., [+]Vasconcelos, L., [+]Shin, M., & Hill, R. B. (2017). Prospective elementary teachers' debugging during block-based visual programming. Presented at the American Educational Research Association Annual Meeting, San Antonio, TX.

[+]Vasconcelos, L., & **Kim, C.** (2017). Leading teachers' learning to algorithmic thinking. Presented at the Association for Educational Communications and Technology International Conference, Jacksonville, FL.

[+]Yuan, J., **Kim, C.,** [+]Vasconcelos, L., [+]Shin, M., [+]Gleasman, C., & [+]Umutlu, D. (2017). A qualitative study of pre-service teachers' engineering design process. Presented at the the Association for Educational Communications and Technology International Conference, Jacksonville, FL.

Kim, C., [+]Yuan, J., [+]Vasconcelos, L., & Hill, R. B. (2016). Use of robotics in preparing teachers to teach science. Presented at the Asia History, Philosophy of Science and Science Teaching Conference, Busan, South Korea.

[+]Yuan, J., & **Kim, C.** (2016). Design of peer assessment to prepare elementary pre-service teachers' integration of robotics into STEM teaching. Presented at the Association for Educational Communications and Technology International Conference, Las Vegas, NV.

[+]Vasconcelos, L. & **Kim, C.** (2016). Promoting exchange students' success in college STEM courses. Presented at the Association for Educational Communications and Technology International Conference, Las Vegas, NV.

Kim, C., [+]Yuan, J., [+]Oh, J., [+]Shin, M., & Hill, R. B. (2016). Productive struggle during inquiry learning. Presented at the European Association for Research on Learning & Instruction SIG 20 & SIG 26 Meetings, Ghent, Belgium.

[+]Yuan, J., **Kim, C.,** Hill, R., & [+]Kim, D. (2016). Robotics integration for learning with technology. Paper presented at the American Educational Research Association Annual Meeting, Washington, DC.

[+]Yuan, J., & **Kim, C.** (2015). Design and implementation of peer assessment with autonomy support in an undergraduate course. Paper presented at the Association for Educational Communications and Technology International Conference, Indianapolis, IN.

Kim, C., [+]Yuan, J., [+]Kim, D., Hill, R. B., Doshi, P., & Thai, C. N. (2015). Educational robotics: Technology to promote pre-service teachers' STEM engagement. Paper presented at the European Assoc. for Research on Learning & Instruction (EARLI) Conf., Limassol, Cyprus.

Kim, C., [+]Yuan, J., [+]Kim, D., Doshi, P., Thai, C. N., Hill, R. B., & [++]Melias, E. (2015). Toward example-based learning and engagement of Teachers in *RoboSTEM*. Paper presented at the American Educational Research Association Annual Meeting, Chicago, IL.

[+]Yuan, J., **Kim, C.,** & [+]Jensen, L. (2014). A qualitative study of students' engagement in peer assessment. Paper presented at the Association for Educational Communications and Technology International Conference, Jacksonville, FL.

[+]Park, S., & **Kim, C.** (2014). Boosting learning-by-teaching effects in virtual tutoring. Paper presented at the Association for Educational Communications and Technology International Conference, Jacksonville, FL.

[+]Lee, C., & **Kim, C.** (2014). An implementation study of a TPACK-based instructional design model – The third prototype. Paper presented at the Association for Educational Communications and Technology International Conference, Jacksonville, FL.

Hodges, C. B., & **Kim, C.** (2014). Mapping learning management system features to self-regulated learning strategies. Paper presented at the Association for Educational Communications and Technology International Conference, Jacksonville, FL.

Kim, C., Doshi, P., Thai, C. N., [+]Kim, D., [+]Yuan, J., & Hill, R. B. (2014). A portal designed to learn about educational robotics. Paper presented at the Annual Conf. of the Cognitive Science Society, Québec City, Canada.

[+]Park, S., & **Kim, C.** (2014). Virtual Tutee System for promoting academic reading engagement. Paper presented at the American Educational Research Association Annual Meeting , Philadelphia, PA.

Huston, S. A., **Kim, C.**, Rathbun, S., Blount, R., [+]Shah, S., Murray, D., et al. (2014). Youths' diabetes

emotions, emotion processing and comfort in adjusting for diabetes in public. Paper resented at the American Pharmacists Assoc. Annual Meeting, Orlando, FL.

[+]Park, S. W., & **Kim, C.** (2013). Using a virtual tutee system to promote academic reading engagement. Paper presented at the Intl. Conf. of Educ. Technology, Seoul, Korea: KSET.

[+]Yuan, J., & **Kim, C.** (2013). Effective feedback design for online learners using free online technologies. Paper presented at the Association for Educational Communications and Technology International Conference, Anaheim, CA.

[+]Park, S., & **Kim, C.** (2013). Promoting reading engagement through a virtual tutee system. Paper presented at the Association for Educational Communications and Technology International Conference, Anaheim, CA.

[+]Lee, C., & **Kim, C.** (2014). An implementation study of a revised TPACK-based instructional design model – The third prototype. Paper presented at the Association for Educational Communications and Technology International Conference, Anaheim, CA.

Kim, C. (2013). Volition support design model. Paper presented at the IADIS International Conference of Cognition and Exploratory Learning in Digital Age, Fort Worth, TX.

Kim, C., & [+]Bennekin, K. N. (2013). An implementation study of volitional control support in an online math course. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA.

[+]Park, S., & **Kim, C.** (2013). Virtual Tutee System: A promising tool for enhancing reading engagement of college learners. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA.

[+]Lee, H., & **Kim, C.** (2013). Factors affecting achievement in community college math courses: A path model. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA.

[+]Lee, H., & **Kim, C.** (2013). A study of corrective feedback and emotional scaffolding in a language education context. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA.

[+]Lee, C., & **Kim, C.** (2013). Developing a TPACK-based instructional design model for preservice teachers' technology integration learning: A case study of design-based research. Paper presented at the American Educational Research Association Annual Meeting, San Francisco, CA.

Spector, J. M., Ifenthaler, D., Knezek, G., Tyler-Wood, T., & **Kim, C.** (2013). Methods and technologies to promote information-centered knowledge construction. Paper presented at *iConference*, Fort Worth, TX

Kim, C. & [+]Bennekin, K. (2012). Volitional control support in mathematics courses. Paper presented at the Association for Educational Communications and Technology International Conference, Louisville, KY.

[+]Park, S., & **Kim, C**. (2012). The design and the formative evaluation of a virtual tutee system. Paper presented at the Association for Educational Communications and Technology International Conference, Louisville, KY.

[+]Lee, H., & **Kim, C.** (2012). Use of formative assessment to improve student motivation and academic emotions in online learning environments. Paper presented at the Association for Educational Communications and Technology International Conference, Louisville, KY.

[+]Lin, Y. & **Kim, C**. (2012). Teacher professional development for personalized student learning. Paper presented at the Association for Educational Communications and Technology International Conference, Louisville, KY.

[+]Lin, Y. & **Kim, C.** (2012). Motivation, beliefs, and learning styles for English as second language (ESL) learning. Paper presented at the Association for Educational Communications and Technology International Conference, Louisville, KY.

[+]Lee, C. & **Kim, C**. (2012). A TPACK-based instructional design model for a technology integration course. Paper presented at the Association for Educational Communications and Technology International Conference, Louisville, KY.

Kim, C., [+]Park, S. W., Huynh, N., & [+]Schuermann, R. (2012). College students' motivation and performance in a large lecture-format geography course. Paper presented at the American Educational Research Association Annual Meeting, Vancouver, BC, Canada.

Kim, C., [+]Park, S. W., & Cozart, J. (2012). Affective and motivational factors of learning in online mathematics courses. Paper presented at the American Educational Research Association Annual Meeting, Vancouver, BC, Canada.

Kim, C., [+]Park, S. W., Huynh, N., & [+]Schuermann, R. (2011). Motivational factors and performance of college students in a geography course. Paper presented at the Association for Educational Communications and Technology International Conference, Jacksonville, FL.

[+]Park, S. W. & **Kim, C.** (2011). A virtual tutee system for motivation to read. Paper presented at the Association for Educational Communications and Technology International Conference, Jacksonville, FL.

[+]Kim, S. & **Kim, C.** (2011). Teacher beliefs, practice, and technology integration. Paper presented at the Association for Educational Communications and Technology International Conference, Jacksonville, FL.

Kim, C. & Balaam, M. (2011). Monitoring affective and motivational aspects of learning experience with the *Subtle Stone*. Paper presented at the 11th IEEE International Conference on Advanced Learning Technologies, Athens, GA.

[+]Park, S. & **Kim, C.** (2011). Designing a virtual tutee system to enhance college student motivation. Paper presented at the 11th IEEE International Conference on Advanced Learning Technologies, Athens, GA.

Kim. C. (2011). A virtual change agent for college students' motivation and emotion control in remedial math. Paper presented at the American Educational Research Association Annual Meeting, New Orleans, LA.

Kim. C., DeMeester, K., Spector, J. M., [+]Kim, M., & [+]Lee, C. (2011). Teacher pedagogical beliefs, technology integration, and student learning. Paper presented at the American Educational Research Association Annual Meeting, New Orleans, LA. *Nominated for a best paper award by AERA SIG "Technology as an Agent of Change in Teaching and Learning"*

Kim, C., & [+]Bennekin, K. N. (2011). Motivation, emotions, and achievement in a college remedial math course. Paper presented at the American Educational Research Association Annual Meeting, New Orleans, LA.

Kim, C. (2010). A design framework for a virtual change agent to improve college students' motivation and emotion control in remedial math online courses. Paper presented at the Association for Educational Communications and Technology International Conference, Anaheim, CA.

Kim, C. (2010). Theoretically- and empirically-based instructional design to improve motivation and emotion control. Research & Theory Invited Junior Faculty Session, the Association for Educational Communications and Technology International Conference, Anaheim, CA.

Kim, C., & [+]Bennekin, K. N. (2010). Emotion control in online mathematics courses. Paper presented at the Association for Educational Communications and Technology International Conference, Anaheim, CA.

[+]Park, S., & **Kim, C.** (2010). A needs assessment tool for students with learning disabilities. Paper presented at the Association for Educational Communications and Technology International Conference, Anaheim, CA.

Kim, C., [+]Mendenhall, A., & Johnson, T. E. (2010). An online social annotation tool for English education. Paper presented at the American Educational Research Association Annual Meeting, Denver, CO.

Belland, B., **Kim, C**., & Hannafin, M. J. (2010). A conceptual framework for increasing middle school students' science motivation. Paper presented at the American Educational Research Association Annual Meeting, Denver, CO.

Hodges, C., & **Kim, C**. (2010). Enhancing college algebra students' attitudes toward mathematics: Designing and testing an ARCS intervention. Paper presented at the American Educational Research

Association Annual Meeting, Denver, CO.

Kim, C., & Hodges, C. (2010). Effects of an emotion control treatment on academic emotions, motivation and achievement in an online mathematics course. Paper presented at the American Educational Research Association Annual Meeting, Denver, CO.

Kim. C., [+]Kim, M., [+]Lee, C., Spector, J. M., & CSR Group at LSI (2010). Teachers' beliefs, philosophical foundations for pedagogy, and technology integration. Paper presented at the 2010 Society for Information Technology & Teacher Education Conference, San Diego, CA.

Regional and state conventions

Choi, Y. J., Orpinas, P., & **Kim, C.** (2017). Randomized study of an online intimate partner violence intervention for Korean American clergy. Paper presented at the Atlanta Clinical & Translational Science Institute Community Engagement Program – Understanding Resilience in Underserved Communities: From Research to Reality, Atlanta, GA.

Kim, C., & [+]Bennekin, K. N. (2012). Motivational support in mathematics courses. Paper presented at the 25th Annual Georgia Perimeter College Mathematics Conf., Clarkson, GA.

Kim, C., & [+]Bennekin, K. N. (2011). Motivational support in learning support mathematics courses. Paper presented at the 24th Annual Georgia Perimeter College Mathematics Conf., Clarkson, GA.

Special Lectures/Workshops

Kim, C., & Belland, B. R. (2022). Creating a sense of belonging in CS among students from historically underrepresented groups in CS. National Science Foundation (NSF) Improving Undergraduate STEM Education (IUSE) Summit, National Science Foundation, Washington, DC.

Kim, C. (2021). How to publish in ISI-indexed journals. Korea University, Seoul, S. Korea.

Kim, C. (2019). Current topics in emerging technologies. Yonsei University, Seoul, S. Korea.

Kim, C. (2019). Robot coding in schools. Yonsei University, Seoul, S. Korea.

Kim, C. (2016). Strategies for publishing in ISI-indexed journals. Pusan National University, Busan, S. Korea.

Kim, C. (2016). Preparing teachers to enact a warm-hearted community. Pusan National University, Busan, S. Korea.

Kim, C., & Hill, R. B. (2015). Robotics to engage teachers in STEM teaching. College of Education Research Colloquium Series, College of Education, Univ. of Georgia, Athens, GA.

Kim, C., & Savenye, W. (2013). Graduate Student Association session: What is a research agenda? Assoc. for Educ. Communication and Technology (AECT) Intl. Conf., Anaheim, CA.

Reeves, T. C., Donaldson, A., Piña, A., Parker, P., & **Kim, C.** (2012). Presidential panel session: Leadership and success: A candid conversation with previous ECT interns about their experiences as leaders in the field, AECT, Louisville, KY.

Kim, C. (2013). Volition support for online learning. 14th Intl. Conf. on Education Research, Seoul, S. Korea.

Kim, C. (2013). Overcoming challenges in learning and teaching: Focusing on volition. Pusan National University, Busan, S. Korea.

Kim, C. (2011). Motivating students with Google tools and more. Innovation in Teaching and Technology Initiative, College of Education, Univ. of Georgia, Athens, GA.

Kim, C., & Savenye, W. (2011). Enhancing learner motivation. Technology Integration Workshop, Texas State University, San Marcos, TX.

Spector, J. M., & **Kim, C.** (2010). Designing online instruction: Lessons learned along the way. Developing Online Instruction workshop, University of South Alabama, Mobile, AL.

TEACHING

Overview

Received high evaluations across a variety of face-to-face and online courses; Chaired 8 graduated PhD students.

Teaching Awards

Lilly Teaching Fellowship (2011-2013), Center for Teaching & Learning, Univ. of Georgia.

Academic Advising (unless otherwise noted, Learning, Design, and Technology program)

Major Professor, PhD Graduates (N = 8)

Emre Dinç (2024). Dissertation title: *Prospective teachers reasoning while pair programming geometric patterns*. Position as of 2025: National Education Expert, Innovation and Educational Technologies General Directorate, Republic of Türkiye Ministry of National Education, Turkey.

Afaf Baabdullah (2022). Dissertation title: *Metacognitive support for pair debugging*. Current Position: Faculty member, Department of Curriculum and Instruction, King Saud University, Saudi Arabia.

Lucas Vasconcelos (2019). Dissertation title: *Use of block-based coding in scientific modeling*. Current position: Faculty in the Department of Educational Studies, University of South Carolina, U.S.A.

Cory Gleasman (2019). Dissertation title: *Using block-based programming and computational thinking to prepare elementary teachers to teach mathematics conceptually*. Current position: Faculty in the Department of Curriculum and Instruction, Tennessee Tech University, U.S.A.

Duygu Umutlu (2019). Dissertation title: *Scaffolding for pre-service teachers' reflection toward culturally responsive teaching.* Current position: Faculty in the Department of Computer Education and Educational Technology, Boğaziçi University, Istanbul, Turkey.

Jiangmei May Yuan (2016). Dissertation title: A study of student engagement in autonomy-supportive peer assessment. Current position: Faculty in the Department of Learning Sciences and Human Development at West Virginia University, U.S.A.

Seung Won Park (2013). Dissertation title: Promoting academic reading engagement through a virtual tutee. Current position: Researcher at Archipin, Inc. (AI-integrated educational game software company), South Korea.

Chia-Jung Lily Lee (2013). Co-Chair with Dr. J. Michael Spector, Dissertation title: The implementation study of a technological pedagogical content knowledge based instructional design model. Current position: Faculty in the Department of Education, National University of Tainan, Taiwan.

Major Professor, Current Students, PhD Level (N = 2)

Holly Blasko-Drabik; Jungeun Ha

Committee Member, PhD Graduates (N = 11)

Gozde Tosan McLaughlin (2024); JooYoung Seo (2021); Hwei-Kit Grace Chang (2021); Diego Boada (2018); Lu Ding (2017); Erkan Er (2016); Lucas Jensen (2015); Tonia Dousay (2013); Brandy Walker (2013); Kim Bennekin (Mathematics Education, 2013); AnneMarie Marshall (Mathematics Education, 2013)

Committee Member, EdD Graduates (N = 2)

Robb Knox (2016); Deborah Spear (2019)

Committee Member, Current Students, PhD Level (N = 8)

Yesul Park (Art Education, College of Arts and Architecture); Albert Zhang (Information Science and Technology); Minyoung Gil (Science Education); Derrick Keister (Math Education); Eunseo Lee (Educational Psychology); Minkyoung Lee; Chris Reeves; Jennifer Scudder

Committee Member, Current Students, Master's Level (N = 1)

Mahsa Sheikhi Karizaki (Computer Science and Engineering)

Major Professor, MEd Graduates (N = 9)

Leah Lang (2024); Jennifer Peck (2024); Ehean Kim (2022); Suzanne Broman (2021); Penny Ward (2020); Kathy Brew (2012); Darren West (2012); Hakan Islamoglu (2012); Lance Curry (2010)

Major Professor, Current Students, MEd (N = 7)

Siyu Isabella Cui; Paul Caginalp; Daren Metz; Janai Lockhart; Matthew Royer; Adale Sholock; Ryan Wetzel

MEd/EdS Portfolio Examination Committee Member (N = 34)

Misti Garmany, 2010; Katharine Miller, 2010; Moira Chance, 2011; Anne Craven, 2011; Tamara Echard, 2012; Courtney Lowe, 2012; Twila Masaschi, 2012; Angela Brown, 2012; Michael Campbell, 2013; Natalie Kennel, 2013; Cheri Matthews, 2013; Makisha Rogers, 2013; Marjorie Bazluki, 2013; Marion Conway Brackett, 2013, Robert Moloney, 2013; Karah Hagins, 2015; Tara Ingram, 2015; Lia Schraeder, 2015; Pat Strawser, 2015; Ben Hanes, 2016; Jason Burke, 2016; Ashley Summers, 2016; Brittany Etheredge, 2017; Rachael Lehner, 2017; Tim Cone, 2017; Sam Cook, 2007; Jeremy Worsham, 2017; Adeline Anyidoho, 2017; Adriana Moreno-Valencia, 2017; Martha Martha Bongiorno, 2017; Alix Hardy, 2017; Jose Tijerina, 2017; Heather Wickham, 2017; Jen Berry, 2017

Teaching at Pennsylvania State University

EDPSY 10 Individual Differences in Education
LDT 100 World Technologies and Learning
LDT 549 Current Topics in Emerging Technologies: Multimodal Ways of Design to Address Equity and Enhance Learning
LDT/EDTEC 561 Measuring the Impact of Technology on Learning
LDT 594 Research Apprenticeship: Playful Coding
LDT 832 Designing e-Learning within Course Management Systems

Teaching at the University of Georgia

EDIT 6150E Introduction to Digital Learning
EDIT 7350E eLearning Evaluation & Assessment
EDIT 7500E Technology Enhanced Learning Environments
EDIT 7500E Project, Problem, & Place-Based Learning
EDIT 6900E Research Methods in Instructional Technology
EDIT 9630 Critique of Literature in Instructional Technology
EDIT 9990 STEM Engagement & Learning Technologies
EDIT 9990 Motivation and Emotion Research Seminar
FYOS 1001 Secrets of Straight-A Students

SERVICE

Grant Review

International Grant Reviewer

The Netherlands Initiative for Education Research (NRO), The Programme Council for Fundamental Scientific Education Research (PROO), the Netherlands, 2016

The University of Vienna Reinforcing Women in Research (REWIRE) Postdoctoral Fellowship Programme, Funded by the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie actions, 2019

National Grant Review Panelist

National Science Foundation, Directorate for Computer & Information Science & Engineering, Directorate for Education & Human Resources/ STEM Education, Directorate for Engineering, 2017, 2018, 2019, 2021, 2025
National Science Foundation, Directorate for Education & Human Resources/STEM Education, 2016, 2020, 2024
Spencer Foundation, 2024, 2025
US Department of Education, Office of Elementary & Secondary Education, 2022, 2023

National Grant Ad Hoc Reviewer

National Science Foundation, Directorate for Education & Human Resources, 2018
National Science Foundation, Directorate for Education & Human Resources, 2020

External Review for Promotion and Tenure for Universities, 2020 (n=1), 2022 (n=2)

Manuscript Review

Reviewer for Peer-reviewed Journals

Various journals including *Teaching and Teacher Education*, *Instructional Science, Computers & Education, Educational Technology Research and Development, Learning and Instruction, Journal of Learning and Individual Differences*

Reviewer for Book Chapters

Spector, J. M., Ifenthaler, D., Johnson, T. E., Savenye, W. C., & Wang, M. (2015). SAGE encyclopedia of educational technology. Thousand Oaks, CA: Sage; Plomp, T., & Nieveen, N. (2013). Educational design research: Introduction and illustrative cases. Enschede, The Netherlands: SLO, Netherlands Institute for Curriculum Development; Spector, J. M., Merrill, M. D., Elen, J., & Bishop, M. J. (2014). Handbook of research for educational communications and technology (4th ed.). New York, NY: Springer.

Conferences

Program Committee

ACM Technical Symposium on Computer Science Education, 2021; Agent-Based Systems for Human Learning and Entertainment Workshop, Autonomous Agents and Multi-agent Systems Conf., 2009; Artificial Intelligence in Education, 2024; Cognition and Exploratory Learning in Digital Age, 2009-2024; European Association for Research on Learning & Instruction SIG20 and SIG26, 2016; International Society of the Learning Sciences, 2022-2023; Intl. Conf. on Advanced Learning Technologies, 2007-2013; Intl. Conf. on Computer Supported Education, 2009-2019; Intl. Conf. on Technology for Education, 2010-2013; Scaling-up Collaborative Innovation for ICT in Education Workshop, Intl. Conf. on Computers in Education, 2013

Chair

Session chair, Teacher education, technology integration, and TPACK I. American Educational Research Association (AERA) Annual Meeting, San Francisco, CA, 2013

Discussant

Session discussant, Research on technology integration. American Educational Research Association Annual Meeting (AERA), New York, NY, 2018

Proposal and/or Award Reviewer

American Educational Research Association Annual Meeting (AERA), 2008-Present; Instructional Tech. Special Interest Group, AERA, Best Paper Competition, 2011-2013; American Psychological Assoc. Annual Conv., 2014; Intl. Conf. on Computer-Supported Collaborative Learning, 2014; Intl. Conf. of the Learning Sciences, 2008, 2010, 2014, 2018-Present

Service to other Universities

Ran 2-week faculty workshop on learning, design, and technology, Texas State Univ., San Marcos, TX, 2012, 2013

Service to Pennsylvania State University

University

College of Information Sciences and Technology (IST): Data Science/AI Faculty Area Review Committee for Promotion & Tenure Review, 2023-2024
Center for Socially Responsible AI (CSRAI) Steering Committee for "Breaking ChatGPT: A Hackathon", Center for Socially Responsible Artificial Intelligence (CSRAI), December 2023.

College of Education

Research Advisory Committee, 2021-present
Promotion & Tenure Review Committee, 2022-2024
Graduate Studies & Research Policy Committee, 2021-2022
Research Office Staff Search Committees, 2021, 2022, 2023
Faculty Council, 2018-2020
Led one of the four presentation teams at the Discovery Summit, 2019
Served as a champion connecting Pennsylvania State University and Yonsei University (South Korea) for signing and launch of the MOU, 2019

Department

Learning, Design, and Technology Postbaccalaureate Certificate Program Coordinator, 2021-present
Learning, Design, and Technology Faculty Search Committees, 2022-2023, 2023-2024
M.Ed. in Learning, Design, and Technology Application Review Committee, 2020-present
Faculty Peer Review of Teaching, 2020

Service to the University of Georgia

University

Faculty of Robotics at UGA Steering Committee, 2012-2018
Academic Affairs Faculty Symposium Participant, 2013
eLC-New Early Adopter's Program Participant, 2012

College of Education

Early Career Faculty Research Grant Review Committee, 2018
Graduate School Research Assistantship Selection Committee, 2017-2018
Post Tenure Review Committee, 2016
Facilitator, Roundtable Session, Research Evidence on Innovations in Learning, Design, & Technology, Faculty Research Conference, 2013
Reviewer, Teacher Quality Grant Program, 2011

Department

Learning, Design, and Technology PhD Committee, 2010-2018
Learning, Design, and Technology K12 Committee, 2016-2018
Peer Review Committee, 2016-2017
Awards Committee, 2015-2018
Wellness Committee, 2013-2016
Research, Evaluation, Measurement and Statistics Faculty Search Committee, 2012
Grievance Committee, 2009-2012

OTHER AWARDS

Building a Technology Research Agenda: An Early Career Symposium (2008) sponsored by the National Science Foundation, AECT, Orlando, FL.

Strohbehn Intern, Educ. Communication & Technology Foundation (2007), AECT, Anaheim, CA.

PacifiCorp Design and Development Award (2007), Design and Dev. Division, AECT, Anaheim, CA.

Liliana Mulhman Masoner Outstanding International Student Award (2006-2007), Educational Psychology & Learning Systems, College of Education, Florida State University.

Gagné & Briggs Outstanding Doctoral Student Award Finalist (2006-2007), Educational Psychology & Learning Systems, College of Education, Florida State University.

Award of the Council on Research in Education (2007), College of Education, Florida State University.

Ruby Diamond Future Professor Award (2005-2006), Educational Psychology & Learning Systems, College of Education, Florida State University.

Silver (Second) Prize, General Field for Teachers, Contest for National Educational Software (2001), Deputy Prime Minister and Minister of Education, S. Korea. Awarded for math game software designed and programmed for children with special needs including those on the autism spectrum.

First Prize, Contest for Municipal Educational Software (2001), Deputy Prime Minister and Minister of Education, S. Korea. Awarded for math game software designed and programmed for children with special needs including those on the autism spectrum.