
STEVEN J. ZUIKER
ORCID: [0000-0003-0887-0695](https://orcid.org/0000-0003-0887-0695)

P.O. Box 871811, Mail Code 1811
Tempe, AZ 85287-1811

phone: 480.965.4673
email: steven.zuiker@asu.edu

EDUCATION

<u>Institution and Location</u>	<u>Degree</u>	<u>Year</u>	<u>Field</u>
Indiana University - Bloomington, IN	PhD	2007	Learning Sciences
The University of Georgia - Athens, GA	MA	2005	Educational Psychology
University of Illinois - Urbana-Champaign, IL	BS	1997	Psychology

APPOINTMENTS

2020 – Present	Associate Professor, Mary Lou Fulton Teachers College, Arizona State University
2012 – 2020	Assistant Professor, Mary Lou Fulton Teachers College, Arizona State University
2011 – 2012	Associate Director, Center for Digital Learning & Scholarship, Rice University.
2007 – 2011	Assistant Professor, Learning Sciences & Technologies Department, National Institute of Education at Nanyang Technological University, Singapore.

AWARDS

PROFESSIONAL

2010	Recipient, Best Paper Award, 4th IEEE International Conference on Digital Ecosystems and Technologies
2008	Nominee, Best Paper Award, International Conference of the Learning Sciences
2006	Recipient, Reviewer of the Year Award, Educational Researcher.

INSTITUTIONAL

2019	Recipient, Excellence in Community-Engaged Research Award, Mary Lou Fulton Teachers College, Arizona State University
2017-2018	Dean Appointee, Leadership Academy, Arizona State University

PUBLICATIONS

* denotes graduate student co-author @ denotes practitioner co-author +denotes K-12 youth co-author

PEER-REFEREED JOURNAL ARTICLES

- Zuiker, S. J., & Anderson, K. T.** (2021). Fostering peer dialogic engagement in science classrooms with an educational videogame. *Research in Science Education, 51*(2), 865-889. doi: 10.1007/s11165-019-9842-z
- Jordan, M., Berniers*, J., & **Zuiker, S. J.** (2021). The Future is Open and Shapeable: Using Solar Speculative Fiction to Foster Learner Agency. *Literacy Research: Theory, Method, & Practice*. doi: 10.1177/23813377211028263

- Anderson, K. T., Ambroso*, E., Cruz, J., **Zuiker, S. J.**, & Rodriguez*, S. (2021). Complicating methods for understanding educators' language ideologies: Transformative approaches for mixing methods. *Language & Education*. doi: 10.1080/09500782.2021.1931296
- Jordan, M., **Zuiker, S. J.**, Wakefield*, W., & De La Rosa@, M. (2021). Real work with real consequences: Enlisting community energy engineering as an approach to envisioning engineering in context. *Journal of Pre-College Engineering Education Research*, 11(1), 1-26. doi: 10.7771/2157-9288.1294
- Zuiker, S. J.**, & Riske*, A. (2021). Designing for garden-based learning: Mapping practical and theoretical work through design. *Environmental Education Research*, 27(8), 1152-1171. doi: 10.1080/13504622.2021.1888886
- Merritt, E., Peterson*, A., Evans@, S., Marston, S., & **Zuiker, S. J.** (2021). Learning about culture and sustainable harvesting of native plants. *Science & Children*, 58(4), 69-73. [[link](#)]
- Henrikson, D., Jordan, M., Foulger, T., **Zuiker, S. J.**, & Mishra, P. (2020). Essential tensions in facilitating design thinking: Collective reflections. *Journal of Formative Design in Learning*, 4(1), 5-16. doi: 10.1007/s41686-020-00045-3
- Zuiker, S. J.**, Jordan, M., and the Learning Landscapes Team*@. (2019). Inter-organizational design thinking in education: Joint work between learning sciences courses and a zoo education program. *Open Education Studies*. doi: 10.1515/edu-2019-0001
- Zuiker, S. J.**, Piegrass*, N., Tefera, A., Anderson, K. T., Fischman, G., & Winn*, K. (2019). Advancing knowledge mobilization in colleges of education. *International Journal of Educational Policy & Leadership*, 15(1), 1-19. doi: 10.22230/ijep.2018v15n1a808
- McMullen, S., Winkler, F., & **Zuiker, S. J.** (2018). Gardens, machines, and education. *Leonardo*, 51(3), 296-297. doi: 10.1162/LEON_a_01531 [[all authors contributed equally.](#)]
- Fischman, G., Anderson, K. T., Tefera, A., & **Zuiker, S. J.** (2018). If mobilizing educational research is the answer, who can afford to ask the question? An analysis of knowledge mobilization for scholarship in education. *AERA Open*, 4(1), 1-17. doi: 10.1177/2332858417750133 [[all authors contributed equally.](#)]
- Zuiker, S. J.**, Anderson, K., Jordan, M., & Stewart*, O. (2016). Complementary lenses: Using theories of situativity and complexity to understand collaborative learning as systems-level social activity. *Learning, Culture, & Social Interaction*, 9, 80-94. doi: 10.1016/j.lcsi.2016.02.003
- Zuiker, S. J.**, & Wright*, K. (2015). Learning in and beyond school gardens with cyber-physical systems. *Interactive Learning Environments*, 23 (5), 556-577. doi:10.1080/10494820.2015.1063512
- Zuiker, S. J.** (2014). Visual communication in transition: Designing for new media literacies and visual culture art education. *E-Learning and Digital Media*, 11(6), 654-666. doi:10.2304/elea.2014.11.6.654
- Zuiker, S. J.**, & Whitaker, J. R. (2014). Refining inquiry with multi-form assessment: Formative and summative assessment functions for flexible inquiry. *International Journal of Science Education*, 36(6), 1037-1059. doi: 10.1080/09500693.2013.834489
- Zuiker, S. J.** (2013). Expanding assessment practices with educational videogames. *Journal of Applied Instructional Design*, 3(3), 45-50. [[link](#)]

- Zuiker, S. J.** (2012). Educational virtual environments as a lens for supporting and understanding both precise repeatability and specific variation in classroom learning. *British Journal of Educational Technology*, 43(6), 981-992. doi:10.1111/j.1467-8535.2011.01266.x
- Hickey, D. T., & **Zuiker, S. J.** (2012). Multi-level assessment for discourse, understanding, and achievement. *Journal of the Learning Sciences*, 21(4), 522-582. doi: 10.1080/10508406.2011.652320
- Zuiker, S. J.**, & Ang*, D. (2011). Virtual environments and the ongoing work of becoming a Singapore teacher. *Internet and Higher Education*, 14, 34-43. doi: 10.1016/j.iheduc.2010.05.006
- Anderson, K. T., & **Zuiker, S. J.** (2010). Performative identity as a resource for “being scientific”: Scientific Shane vs. Jimmy Neutron. *Journal of Language, Identity, and Education*, 9, 291-309. doi: 10.1080/15348458.2010.517708
- Barab, S. A., Scott, B., Siyahhan, S. Goldstone, R., Ingram-Goble, A., **Zuiker, S. J.**, & Warren, S. (2009). Transformational play as a curricular scaffold: Using videogames to support science education. *Journal of Science Education and Technology*, 18 (4), 305-320. doi: 10.1007/s10956-009-9171-5
- Barab, S. A., **Zuiker, S. J.**, Warren, S., Hickey, D. T., Ingram-Goble, A., Kwon, E. J., Kouper, I., & Herring, S. (2007). Situationally embodied curriculum: Relating formalisms and contexts. *Science Education*, 91 (5), 750-782. doi: 10.1002/sce.20217
- Anderson, K., **Zuiker, S. J.**, Taasobshirazi, G., & Hickey, D. T. (2007). Classroom discourse as a tool to enhance formative assessment and practice in science. *International Journal of Science Education*, 29(14), 1721–1744. doi: 10.1080/09500690701217295
- Barab, S. A., Sadler, T., Heiselt, C., Hickey, D. T., & **Zuiker, S. J.** (2007). Relating narrative, inquiry, and inscriptions: Supporting consequential play. *Journal of Science Education and Technology*, 16 (1), 59-82. doi: 10.1007/s10956-006-9033-3
- Taasobshirazi, G., **Zuiker, S. J.**, Anderson, K., & Hickey, D. T. (2006). Enhancing inquiry, understanding, and achievement in an astronomy multimedia learning environment. *Journal of Science Education and Technology*, 15 (5-6), 383-395. doi: 10.1007/s10956-006-9028-0
- Hickey, D. T., **Zuiker, S. J.**, Taasobshirazi, G., Schafer, N. J., & Michael, M. A. (2006). Balancing formative and summative assessment to attain systemic validity: Three is the magic number. *Studies in Educational Evaluation*, 32 (3), 180-201. doi: 10.1016/j.stueduc.2006.08.006
- Hickey, D. T. & **Zuiker, S. J.** (2005). Engaged participation: A sociocultural model of motivation with implications for educational assessment. *Educational Assessment*, 10 (3), 277–305. doi: 10.1207/s15326977ea1003_7
- Hickey, D. T. & **Zuiker, S. J.** (2003). A new perspective for evaluating innovative science learning environments. *Science Education*, 87 (2), 539-563. doi:10.1002/sce.10087

EDITOR-REFEREED JOURNAL ARTICLES

- Zuiker, S. J.** (2016). Game over: Assessment as formative transitions through and beyond playful media. *Educational Technology*, 56(3), 48-53. <http://www.jstor.org/stable/44430493>
- Zuiker, S. J.** (2010). Think global | Design glocal. *Educational Technology*, 50 (5), 37-42. <https://www.jstor.org/stable/44429858>

EDITOR-REFEREED BOOK CHAPTERS

- Coats, C. Singha*, S., **Zuiker, S. J.**, & Riske*, A. (accepted). Imagining our neighborhood of nonhuman residents: Sensorial attunement as ecological aesthetic inquiry. In M. Sharma & A. Alexander (Eds.), *Routledge Companion to Decolonizing Art, Craft & Visual Culture Education* (pp. tbd). Routledge.
- Zuiker, S. J.**, Piegrass*, N., & Evans*, M. D. (2017). Expanding approaches to design research: From researcher ego-systems to stakeholder ecosystems. In J. M. Spector, B. B. Lockee, & M. D. Childress (Eds.), *Learning, Design, and Technology. An International Compendium of Theory, Research, Practice, and Policy* (pp. 1-28). New York: Springer. doi: 10.1007/978-3-319-17727-4_74-1
- Zuiker, S. J.**, & Jan, M. (2012). A cultural analysis of game-based learning for collective conceptual evolution. In C. B. Lee & D. Jonassen (Eds.), *Fostering conceptual change with technology: Asian perspectives* (pp. 225-260). Singapore: Cengage Learning Asia.
- Zuiker, S. J.** (2010). Digitizing scientific boundaries. In Y. J. Lee (Ed.), *Handbook of research in Science education research in Asia* (pp. 277-298). Rotterdam: Sense. ISBN: 978-94-6091-072-2
- Zuiker, S. J.**, & Anderson, K. T. (2010). Immersive learning environments. In Q. Wang & C. S. Chai (Eds.), *ICT for self-directed and collaborative learning* (pp. 349-365). Singapore: Pearson.

CONFERENCE PROCEEDINGS - INTERNATIONAL

- Schmidt*, A., & **Zuiker, S. J.** (accepted). Meaningful Movement towards Campus-Based Outdoor Learning: Characterizing Pre-Scenery with Stakeholder Perspective. In names tbd (Eds.). *Conference theme tbd: Proceedings of the 9th International Conference of the Learning Sciences (ICLS 2022)* (p. ###). International Society of the Learning Sciences: Hiroshima, Japan.
- Zuiker, S. J.**, Williams, J. P., Kirschner*, D., Littlefield*, K. G., & Krishnamurthy*, M. (2010, October). Alone together in cyberworlds? In A., Sourin and O. Sourina (Eds.) *International Conference on Cyberworlds* (pp. 309-313). IEEE CS CPS Press: Washington, D.C. doi: 10.1109/CW.2010.43
- Zuiker, S. J.** (2010, July). How the world's largest biome cyber-stretches across the globe. In K. Gomez, L. Lyons, and J. Radinsky (Eds.). *Learning in the Disciplines: Proceedings of the 9th International Conference of the Learning Sciences (ICLS 2010) - Volume 2, Short Papers, Symposia, and Selected Abstracts* (p. 263). International Society of the Learning Sciences: Chicago IL.
- Saleh*, A., & **Zuiker, S. J.** (2010, July). The "other" curriculum: Constructing success and failure in a game-based learning environment. In K. Gomez, L. Lyons, and J. Radinsky (Eds.). *Learning in the Disciplines: Proceedings of the 9th International Conference of the Learning Sciences (ICLS 2010) - Volume 2, Short Papers, Symposia, and Selected Abstracts* (p. 441-442). International Society of the Learning Sciences: Chicago IL.
- Tan, M., Tripathi*, N., **Zuiker, S. J.**, & Seah, H. S. (2010, April). *Building an online collaborative platform to advance creativity*. In M. Kuster (Ed.) *Proceedings of the 4th IEEE International Conference on Digital Ecosystems and Technologies* (pp. 421-426). IEEE CS CPS Press: Washington, D.C. doi: 10.1109/DEST.2010.5610610

- Tripathi*, N., Seah, H. S., **Zuiker, S. J.**, & Tan, M. (2009, October). Visuapedia: A social media-based visual encyclopedia. In S. Boll, S. C. H. Boi, J. Luo, R. Jin, I. King, & D. Xu (Eds.), *Proceedings of 1st ACM SIGMM International Workshop on Social Media* (pp. 89-96). Beijing: Association for Computing Machinery. doi: 10.1145/1631144.1631161
- Zuiker, S. J.**, Anderson, K.T., Lee*, J., Chee, Y. (2008, June). Designing for the epistemological entailments of physics through game-centered dialogical activity cycles. In P. Kirschner, F. Prins, V. Jonker, & G. Kanselaar (Eds.), *Proceedings of the 8th International Conference of the Learning Sciences: International Perspectives in the Learning Sciences: Creating a Learning World* (pp. 516-523, vol. 2). Utrecht: International Society of the Learning Sciences.
- Hickey, D. T., Barab, S. A., Ingram-Goble, A., & **Zuiker, S. J.** (2008, June). First things first: Design principles for worthwhile educational videogames. In P. Kirschner, F. Prins, V. Jonker, & G. Kanselaar (Eds.), *Proceedings of the 8th International Conference of the Learning Sciences: International Perspectives in the Learning Sciences: Creating a Learning World* (pp. 350-357). Utrecht: International Society of the Learning Sciences.
- Zuiker, S. J.**, & Hickey, D. T. (2006, June). A multi-level assessment strategy: (Dis)continuity in making learning visible differently. In S. Barab, K. Hay, & D. Hickey (Eds.), *Proceedings of the 7th International Conference of the Learning Sciences: Making a Difference* (p. 1012-1013, vol. 2). Mahwah, NJ: Erlbaum.
- Hickey, D. T., **Zuiker, S. J.**, & McGee, S. (2004, June). A multi-level/multi-type model for design-based alignment of instruction, assessment, and testing. In Y. Kafai, W. Sandoval, N. Enyedy, A. Nixon, & F. Herrera (Eds.), *Proceedings of the 6th International Conference of the Learning Sciences: Embracing Diversity in the Learning Sciences* (p. 607, vol. 2). Mahwah, NJ: Erlbaum.

CONFERENCE PROCEEDINGS - NATIONAL

- Zuiker, S. J.** (2013). Gaming the general consequences of learning. In C. C. Williams, A. Ochsner, J. Dietmeier, & C. Steinkhuehler (Eds.), *Proceedings of GLS 9.0 Games + Learning + Society Conference* (pp. 566-567). Pittsburgh, PA: ETC Press. ISSN 2164-6651
- Subbiah, S., & **Zuiker, S. J.** (2009, April). A case study of simulation-based reasoning. In F-H. Wang (Ed.), *Proceedings of the American Society for Mechanical Engineers Asia-Pacific Engineering Education Conference* (pp. 17-22). Taipei: American Society of Mechanical Engineers.

BOOK REVIEWS

- Zuiker, S. J.**, & Lok*, S. K. (2009). Review of Electric Worlds in the Classroom. *e-Learning and Digital Media*, 6(3), 298-299.
- Roulston, K., & **Zuiker, S. J.** (2004). What's to look at in ethnomethodology's program? *Linguistics and Education*, 15(3), 311-314.

UNREFEREED

- Zuiker, S. J.** (2007). Transforming Practice: Designing for Liminal Transitions along Trajectories of Participation. Unpublished dissertation. Bloomington, IN: Indiana University.

WORKS IN PROGRESS

Coats, C., Singha*, S., **Zuiker, S.**, & Riske*, A. (in review). Time unbound: Framing encounters for embodied connection and ecological imagination. *Studies in Art Education*.

GRANTS

EXTERNALLY FUNDED

- Honsberg, C., Bowden, S., Jordan, M., & **Zuiker, S. J.** (2021-2024). *RET Site: Collaborative Research: Sonoran Photovoltaics Laboratory: Energizing the STEM Pipeline through Citizen Science*. National Science Foundation, Engineering Directorate – RET Program Award 2055726. (\$392,999).
- Honsberg, C. Jordan, M., **Zuiker, S. J.**, Bowden, S., & Miller, C. (2021). *REM: Urban Energy Engineering: Research Experiences and Mentorship for High School Scholars Leading Community Solar Energy Innovation*. National Science Foundation, Engineering Directorate – EEC program supplemental award 2005249. (\$96,056).
- Jordan, M., **Zuiker, S. J.**, & Miller, C. (2020-2022). *Co-Developing Community Energy Engineering After-School Programing with Latinx Youth*. Spencer Foundation Small Grant 202000196. (\$50,000).
- Zuiker, S. J.**, Merritt, E., & Marston, S. (2019-2021). *The school gardeners' southwest desert almanac: A conference for supporting, sustaining, and spreading garden-based science teaching*. National Science Foundation Grant, Education and Human Resources Directorate – DRK-12 Program Award 1908886. (\$99,905).
- Barab, S., **Zuiker, S. J.**, & Aricci, A. (2019). *Supporting the development of digital learning modules and an online micro-certificate to attract and develop new and early-career teachers for public district and charter schools across the Kansas City region*. Ewing Marion Kauffman Foundation Grant. (\$384,996).
- Fischman, G., **Zuiker, S. J.**, Tefera, A., & Anderson, K. T. (2014-2016). *Education research: For whom and to what end? An analysis of knowledge mobilization strategies developed by Schools of Education*. Spencer Foundation Grant 201400208. (\$46,856)

INTERNALLY FUNDED

- Vanos, J., Hess, A., Coseo, P., Cloutier, S., Cheng, C., **Zuiker, S. J.**, Coats, C., & Ross, A. (2019). *Reimagining Outdoor Play & Learning Environments*. Knowledge Exchange for Resilience, Arizona State University. (\$15,000).
- Zuiker, S. J.**, & Coats, C. (2019). *Green STEAM Studios: Designing Agential Ecologies for Wonder, Curiosity, and Interconnectedness through School Gardens*. Competitive internal grant awarded jointly by Herberger Institute for Design and the Arts and Mary Lou Fulton Teachers College, Arizona State University. (\$10,000).
- Jordan, M., Tobias, E., **Zuiker, S. J.**, Wylie, R., & Miller, C. (2019). *The Weight of Light: Reasoning and Imagining with Present and Possible Energy Systems*. Competitive internal grant awarded jointly by Herberger Institute for Design and the Arts and Mary Lou Fulton Teachers College, Arizona State University. (\$10,000).

- Jordan, M., **Zuiker, S. J.**, & Miller, C. (2018). *Teacher-Student Teams for Community-based Energy Engineering Projects*. Competitive internal grant awarded by Mary Lou Fulton Teachers College, Arizona State University. (\$10,273)
- Zuiker, S. J.**, & Ingram-Goble, A. (2014). *Teachers Dispositions: Designing for Teaching and Learning*. Fulton Challenge Scholars competitive internal grant awarded by Mary Lou Fulton Teachers College, Arizona State University. (\$15,000)
- Zuiker, S. J.** (February, 2013). *Exploring an alternative approach to learning transfer with educational games: A contribution to what works, when, and how*. Competitive internal grant awarded by Mary Lou Fulton Teachers College, Arizona State University. (\$7,878)
- Zuiker, S. J.**, Seah, H S., & Tan, M., (2010). *Designing Collaborative Learning Studios for Visual Participatory Culture*. Competitive internal grant awarded by the Office of Educational Research, National Institute of Education, Singapore. (Singapore Dollars \$250,000)
- Zuiker, S. J.**, & Williams, P. (2010). *Mobilizing Transdisciplinary MMO Research at NTU*. Competitive internal grant awarded by the Institute for Media Innovation, Nanyang Technological University, Singapore (Singapore Dollars \$50,000).
- Zuiker, S. J.**, Yap, K. C., & Chatterjea, K. (2009). *Glocalizing Quest Atlantis: Globalizing and localizing an interactive digital medium for learning and teaching*. Competitive internal grant awarded by the Office of Educational Research, National Institute of Education, Singapore. (Singapore Dollars \$96,753)
- Zuiker, S. J.**, & Subiah, S. (2009). *Engineering laboratories: Conceptualizing digital laboratories for design and manufacturing*. Competitive internal grant awarded by the Institute for Media Innovation, Nanyang Technological University, Singapore (Singapore Dollars \$10,000).
- Zuiker, S. J.** (2008). *Leveling up: Cultivating learning ecologies for game-based learning in and out of schools*. Competitive internal grant R8019.735.LE10 from the Learning Sciences Lab, Singapore (Singapore Dollars \$31,200).
- Zuiker, S. J.**, & Anderson, K. (2007). *Designing classroom ecologies for game-based learning*. Competitive internal grant 8019.735.CE05 from the Learning Sciences Lab, Singapore (Singapore Dollars \$47,405).

RESEARH SPONSORSHIPS

- Zuiker, S. J.** (December, 2014). *Research on educational technology and elementary school education*. Non-competitive private sponsorship via ASU Foundation, Arizona State University. (\$5,000)
- Zuiker, S. J.** (December, 2013). *Research on educational technology and elementary school education*. Non-competitive private sponsorship via ASU Foundation, Arizona State University. (\$5,500)
- Zuiker, S. J.** (January, 2013). *Research on educational technology and elementary school education*. Non-competitive private sponsorship via ASU Foundation, Arizona State University. (\$5,000)

CONFERENCE PRESENTATIONS

* denotes student co-author @ denotes practitioner co-author

INVITED

- Zuiker, S. J.** (2008, January). *Serious games for education*. Invited workshop presentation at the 5th Annual Asia Pacific Medical Education Conference. Singapore.
- Zuiker, S. J.** (2007, November). *Gaming boundaries through and for learning*. Invited presentation at the International Conference on Educational Technology. Singapore.
- Hickey, D., **Zuiker, S. J.**, & Anderson, K.T. (2007, September). *Situative alignment of formative and summative assessment functions to maximize engagement and learning*. Invited presentation made at the bi-annual meeting of the European Association for Research on Learning and Instruction. Budapest, Hungary.
- Zuiker, S. J.** (2007, April). *The publishing process: How to successfully publish as graduate students and junior faculty members*. Graduate Student Council invited fireside chat at the annual meeting of the American Educational Research Association, Chicago, IL.
- Zuiker, S. J.** (2006, April). *Apprenticeship in "the game": Learning to publish before you perish*. Invited presentation during Publications Committee's Open Meeting at the annual meeting of the American Educational Research Association, San Francisco, CA.

KEYNOTE

- Zuiker, S. J.** (2011, February). *Game-based learning on a global stage*. National E-Learning Plenary Address at Chiang Mai University. Chiang Mai, Thailand.
- Zuiker, S. J.** (2008, April). *Virtual interaction and real participation: Tools for seeing the world through the disciplines*. Keynote Presentation at the International Conference on E-Learning, Kaohjiung, Taiwan.

INTERNATIONAL

- Zuiker, S. J.**, van Geffen*, B., & Jordan, M. (accepted). *Developing Pragmatic Imagination through Science Education*. Paper presented at the 4th International Conference on Anticipation, Tempe, AZ.
- Zuiker, S. J.** (2015, July). *Connected Gardening: Data-Infused Gardening Projects for Elementary School Science Education*. Paper presented at the annual convention of the International Society for Technology Education, Philadelphia, PA.
- Zuiker, S. J.**, & Cirell*, A. M. (2014, May). *Critical design ethnography in the cloud: Learning transitions around and beyond a school district as physical place and digital space*. Presentation at the International Congress of Qualitative Inquiry. Champaign, IL.
- Jan, M., **Zuiker, S. J.**, Seah, H. S., & Tan, M. (2013, June). *Lessons learned from bringing new media to the secondary classrooms in Singapore*. Paper presented at the fifth biennial Redesigning Pedagogies International Conference. Singapore.
- Zuiker, S. J.** (2011, June). *A "VisuaPedia" of visual culture for art education*. Presentation at the fourth biennial Redesigning Pedagogies International Conference. Singapore.
- Saleh*, A., & **Zuiker, S. J.** (2009, July). *Play-styles and adoption of learning strategies in Quest Atlantis*. Poster presented at the International Simulations and Gaming Association Conference. Singapore.
- Zuiker, S. J.** (2009, June). *Glocalizing Quest Atlantis with Singapore teachers and students*. Presentation at the third annual Redesigning Pedagogies International Conference. Singapore.

- Zuiker, S. J.**, Hickey, D. T., Kwon, E. J., Chapman, R., & Barab, S. A. (2005, August). *Assessing student learning in, around, and for a multi-user virtual environment*. Presentation at the biennial conference of the European Association for Research on Learning and Instruction, Nicosia, Cyprus.
- Zuiker, S. J.** (2005, May). *Opening up practice: A micro-analysis of formative assessment within the GenScope assessment project*. Paper presented at The First International Congress of Qualitative Research, Champaign-Urbana, IL.
- Zuiker, S. J.**, Hickey, D. T., Kwon, E. J., & Barab, S. A. (2005, April). *Framing Quest Atlantis: A multi-level/multi-type assessment framework for learning and assessment*. Presentation at the biennial Computer Assisted Learning conference, Bristol, England.
- Anderson, K., **Zuiker, S. J.**, Taasoobshirazi, G., Horne, M., Cross, D., Hendricks, S., & Hickey, D. T. (2005, April). *Discourse, understanding, and achievement: design research methods for maximizing and documenting learning in multi-media science environments*. Presentation at the bi-annual Computer-Assisted Learning conference, Bristol, England.
- Hickey, D. T., **Zuiker, S. J.**, Taasoobshirazi, G., Schafer, N. J., & Michael, M. A. (2004, June). *Balancing formative and summative assessment to attain system validity: Three is the magic number*. Paper presented at the second EARLI SIG Assessment Symposium, Bergen, Norway.
- Zuiker, S. J.** (2004, January). *The influence of context and identity in a formative feedback science activity*. Poster presented at the 17th Annual Conference on Interdisciplinary Qualitative Studies, Athens, GA.
- Zuiker, S. J.** (2002, February). *Sociocultural perspective on motivation in Tanzanian math classes*. Presentation at the annual meeting of the Comparative and International Education Society, Orlando, FL.
- NATIONAL
- Bowden, S., Cordon⁺, J., Dykes⁺, M., Hernandez⁺, M., Jordan, M., Killam^{*}, A., Castillo⁺, J., Park⁺, A., Pita⁺, A., Robledo⁺, M., & **Zuiker, S. J.** (2022, June). *AgriPV Citizen Science Lab: A Collaborative Model for Engineers, Youth Scholars and Communities*. Poster accepted to the IEEE 49th Photovoltaic Specialists Conference. Philadelphia, PA.
- Zuiker, S. J., & Jordan, M. (2022, April). *Understanding Community-Oriented STEM Learning as Local Value Creation*. Paper accepted to the annual meeting of the American Educational Research Association. San Diego, CA.
- Chriyaa, E. M.^{*}, Jordan, M. J., & **Zuiker, S. J.** (2021, October). *Agency in Located Futures Narratives*. Poster to be presented at the Biennial Conference of the Scholarly Consortium of Innovative Psychology in Education, virtual.
- Jongewaard^{*}, R., Barab, A., Barab, S., **Zuiker, S. J.**, and Singha^{*}, S. (2021, May). *Designing for Expansive Value: Fostering Agency in Professional Development*. Paper presented at the annual meeting of the American Educational Research Association, virtual.
- Jordan, M. J., **Zuiker, S. J.**, Miller, C., DeLaRosa[@], M., Lashire^{*}, A., & Lockmiller[@], M. C. (2020, December). *Imagining Solar Energy Futures: Using futures thinking strategies to position youth as sustainability leaders*. Paper presented at the annual meeting of the Literacy Research Association, virtual.

- Zuiker, S. J., Riske, A.***, Marston, S., Jordan, M., Wakefield, W.*, Weinberg, A., & Thompson, M.* (2020, October). Gardening by design: Understanding and enhancing garden-based teaching in schools. Poster submitted to the Annual Conference of the North American Association for Environmental Education, virtual.
- Merritt, E., Wolfe, H., Alvarez, E., Marston, S. **Zuiker, S. J.**, Thompson, M.*, Cashion, M., & McGehee, R. (2020, October). Lessons from the school gardeners' southwest desert almanac. Hands-on session to be presented at the Annual Conference of the North American Association for Environmental Education, virtual.
- Zuiker, S. J., & Riske, A.*** (2020, April). *Integrating Gardens into Schools: Mapping Opportunities and Challenges through Design*. Paper accepted to the annual meeting of the American Educational Research Association, San Francisco, CA. Conference cancelled.
- Zuiker, S. J. & Parekh, P.*** (2017, October). *A school garden that connects plants, soil, and beyond*. Paper presented at Digital Media & Learning conference. Irvine, CA.
- Zuiker, S. J.** (2017, April). *School gardens as sites for project-based science*. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX.
- Zuiker, S. J.** (2017, April). *Designing for learning transfer as formative transitions in, through, and beyond changing activity*. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX.
- Elwood*, K., Jordan, M., & **Zuiker, S. J.** (2017, April). *An exploration of design thinking practices: Building a teacher education model from the ground up*. Paper presented at the annual meeting of the American Educational Research Association, San Antonio, TX.
- Zuiker, S. J., & Anderson, K.** (2016, April). *The warp and woof of game-centered dialogic activity cycles in a science inquiry unit*. Poster presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Jordan, M., Anderson, K., Stewart*, O., & **Zuiker, S. J.** (2016, April). *More than the sum of its parts: Understanding peer group interactional dynamics through complementarity between situativity and complexity theories*. Paper presented at the annual meeting of the American Educational Research Association, Washington, D.C.
- Elwood*, K. D., Jordan, M. E., & **Zuiker, S.** (2015, November). *Positively deviant: Developing an instrument to determine uncommon uses of design thinking in teacher educator programs*. Poster presented to the Scholarly Consortium of Innovative Psychology in Education. Albuquerque, N.M.
- Zuiker, S. J., & Wright*, K.** (2015, April). *Connected Gardening: Cultivating interest and investment in data-infused gardening*. Paper to be presented at the annual convention of the American Educational Research Association, Chicago, IL.
- Zuiker, S. J.** (2015, January). Expert panelist on cyberlearning evaluation expertise exchange. Panel at the Center for Innovative Research in Cyberlearning's Cyberlearning 2015: Connect, Collaborate, and Create the Future, Washington, D.C.
- Zuiker, S. J.** (2014, April). *Expansively framing game-based learning through transitions*. Paper presented at the annual convention of the American Educational Research Association, Philadelphia, PA.

- Zuiker, S. J.** (2013, April). *Enlisting dramatic conventions to support classroom engagement with a virtual worlds curriculum*. Poster presented at the annual convention of the American Educational Research Association, San Francisco, CA.
- Zuiker, S. J.** (2010, May). *Game changers: The role of epistemic reflexivity in the work of epistemic gaming*. Paper presented at the annual convention of the American Educational Research Association, Denver, CO.
- Zuiker, S. J.** (2010, May). *Leveling up in Singapore schools: Adoption and adaptation of game-based learning*. Paper presented at the annual convention of the American Educational Research Association, Denver, CO.
- Zuiker, S. J.** (2009, April). *Assessment for “learning to be” in educational videogames*. Paper presented at the annual convention of the American Educational Research Association, San Diego, CA.
- Zuiker, S. J.** (2009, April). *Looking across enactments of game-based learning in Singapore*. Paper presented at the annual convention of the American Educational Research Association, San Diego, CA.
- Anderson, K. T., **Zuiker, S. J.**, & Saleh*, A. (2008, November). *Virtual space, global place, and contested schooling practices in a multi-user virtual curriculum*. Paper presented at American Anthropological Association, San Francisco, CA.
- Zuiker, S. J.**, Barab, S. A., & Hickey, D. T. (2008, March). *Gaming science and its consequences with Quest Atlantis*. Symposium paper presented at the annual convention of the American Educational Research Association, New York, NY.
- Zuiker, S. J.** (2008, March). *Transforming practice: Designing for liminal transitions along trajectories of participation*. Paper presented at the annual convention of the American Educational Research Association, New York, NY.
- Anderson, K. T., & **Zuiker, S. J.** (2008, March). *Examining science talk for participation, positioning, and learning*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
- Zuiker, S. J.**, Barab, S., & Hickey, D. T. (2007, April). *Extending situativity: Liminal episodes in embodied experiences*. Paper presented at the annual convention of the American Educational Research Association, Chicago, IL.
- Zuiker, S. J.**, Barab, S., Warren, S., Hickey, D. T., Aricci, A., Ingram-Goble, A., Kwon, E. J., Herring, S., & Kouper, I. (2007, April). *Developing a theory of formalisms: Socioscientific inquiry for schools*. Paper presented at the annual convention of the American Educational Research Association, Chicago, IL.
- Scott, B., Barab, S., Ingram-Goble, A., Goldstone, R., **Zuiker, S. J.**, & Warren, S. (2007, April). *Embodiment as a curricular scaffold for transferable understanding*. Paper presented at the annual convention of the American Educational Research Association, Chicago, IL.
- Zuiker, S. J.**, Kwon, E. J. & Hickey, D. T. (2006, April). *Assessment as formative design—and vice versa*. Paper presented at the annual convention of the American Educational Research Association, San Francisco, CA.

- Anderson, K., **Zuiker, S. J.**, Hickey, D. T., & Taasoobshirazi, G. (2005, April). *Discourse analysis for enhancing the formative value of classroom assessment practices in science*. Poster presented at the annual meeting of the American Educational Research Association, Montreal, Canada.
- Hickey, D. T., & **Zuiker, S. J.** (2004, April). *Curricular overview and learning outcomes in the GenScope Assessment Project*. Poster presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Kruger, A., Schafer, N., Russell, H. A., **Zuiker, S. J.**, & Michael, M. (2004, April). *A comparison of four different ways of coding engagement in videos of classroom activity*. Poster presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Schafer, N., Kruger, A., Russell, H. A., Michael, M., & **Zuiker, S. J.** (2004, April). *Coaching and video feedback for enhancing classroom assessment conversation and learning*. Poster presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Zuiker, S. J.**, & Hickey, D. T. (2004, April). *Identities for knowing: Analysis of discourse and transfer of learning during collaborative formative feedback activities*. Poster presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Hickey, D. T., **Zuiker, S. J.**, & McGee, S. (2004, April). *Defining levels and types of knowledge in educational design experimentation*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Hickey, D. T., & **Zuiker, S. J.** (2004, April). *Design experimentation with multiple levels of assessment and multiple types of outcomes*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Schafer, N. J., Hickey, D. T., **Zuiker, S. J.**, Kruger, A. C., & Russell, H. A. (2003, April). *Using video feedback to facilitate classroom assessment conversation*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Hickey, D. T., Kruger, A. C., Fredrick, L. D., Schafer, N. J., Russell, H. A., Bable, B., Hand, B., Micheal, M., & **Zuiker, S. J.** (2003, April). *Design experimentation using multiple perspectives*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.

STATE / LOCAL

- Tobias, E., Jordan, M., & **Zuiker, S. J.** (2021, November). *The Weight of Light: Reasoning and Imagining with Present and Possible Energy Systems*. Fall 2021 Herberger Research and Sabbatical Showcase. Tempe, AZ.
- Coats, C. & **Zuiker, S. J.** (2021, November). *Green STEAM Studios: Designing Agential Ecologies for Wonder, Curiosity, and Interconnectedness through School Gardens*. Fall 2021 Herberger Research and Sabbatical Showcase. Tempe, AZ.
- Fraker, T. & **Zuiker, S. J.** (2021, October). Green STEAM studio-Curiosity to amplification. Presentation at the Arizona Science Teachers Association Annual Conference. Phoenix, AZ.
- Zuiker, S. J.**, & Jordan, M. (2019, February). Fostering a university-organization collaboratory to enact educational change. Presentation at the ASU social embeddedness network conference. Phoenix, AZ.

Fraker, T., Jordan, M., Schauer, D., & **Zuiker, S. J.** (2016, December). *Learning landscapes: Making our connections matter*. Symposium presented at the annual meeting of the Arizona Educational Research Association. Phoenix, AZ.

Zuiker, S. J., & Ingram-Goble, A. (2015, December). *Design in transition: Positioning pedagogical intentions at the center of professional development workshops*. Paper presented at the annual conference of the Arizona Educational Research Organization. Tempe, AZ.

Zuiker, S. J., Tefera, A., Piepgrass*, N., Winn*, K., Anderson, K., & Fischman, G. (2015, December). *Building Two-Way Roads: Knowledge Mobilization in and beyond Arizona's Systems of Education*. Symposium presentation at the annual conference of the Arizona Educational Research Organization. Tempe, AZ.

Zuiker, S. J., & Jordan, M. (2014, September). *The visionary pursuit of the learning sciences*. Presentation at the ASU EdCon 14 Conference. Phoenix, AZ.

INVITED PRESENTATIONS

Zuiker, S. J. (2021, March). *Outdoor / Hybrid Learning Environments for Schools*. Association for Learning Environments, Arizona Chapter- Southwest Region.

Zuiker, S. J. (2011, May). *Drill or practice: Enlisting new media to engage institutional knowledge*. Civil Defense Institute, Singapore.

Zuiker, S. J. (2010, October). *Will the real digital generation please stand up*. Opening Address at Ministry of Education and the National Institute of Education's EduLab Launch Event, Singapore.

Zuiker, S. J. (2010, September). *Professional learning as reciprocal apprenticeships*. Keynote Presentation at Western Zone Centre of Excellence in ICT. Beacon Primary School, Singapore.

Zuiker, S. J. (2010, July). *Human mentor^{beta}*. Keynote Presentation at the Eastern Zone Centre of Excellence in ICT: Extravaganza III. Victoria School, Singapore.

Zuiker, S. J. (2010, March). *Growing a culture of participation: Digitizing boundaries of learning*. Keynote Presentation at the annual Hwa Chong Institution Educational Technology Seminar. Hwa Chong Institution, Singapore.

Zuiker, S. J. (2009, September). *New media in education: Redefining the digital architecture of classroom interaction*. Keynote Presentation at Festival Di Arts. Inova Junior College, Singapore.

Zuiker, S. J. (2008, November). *Interactive digital media and participatory learning*. Presentation to Wee Kim Wee School of Communications faculty and students. Nanyang Technological University, Singapore.

PROFESSIONAL DEVELOPMENT WORKSHOPS

INTERNATIONAL

2021 Invited Panelist. *Flexible Summative Assessment Webinar*. US-AID & Mary Lou Fulton Teachers College Higher Education Partnership–Morocco.

NATIONAL

2020 Invited Panelist. *Research Dissemination: Strategies for Supporting Knowledge Use and Disseminating your Research to Different Audiences Webinar*. NSF Community for Advancing Discovery Research in Education Fellows program.

INSTITUTIONAL

- 2020 Invited Presenter, presentation for Elementary Education Program Expertise Expansion Series (Instructors: Jessica Debiase).
- 2018 Invited Presenter, Expanding Design-Based Research presentation to Learning, Literacies, & Technology Doctoral Program Interdisciplinary Seminar (Instructors: Drs. James Gee & Brian Nelson).
- 2017 Organizer, Applied Projects Design Challenge for Graduate Program Coordinators (co-organized with Drs. Carl Hermanns and Sam DiGangi), Division of Educational Leadership & Innovation.
- 2016 Invited Presenter, Design-Based Research presentation to Learning, Literacies, & Technology Doctoral Program Interdisciplinary Seminar (Instructors: Drs. Frank Serafini & Ian Douglas).
- 2016 Organizer, Design Thinking Workshop (Co-organized with Drs. Michelle Jordan and Danah Henriksen), Teachers College Annual Summit.
- 2014 Invited Presenter, Design-Based Research presentation to Learning, Literacies, & Technology Doctoral Program Interdisciplinary Seminar (Instructors: Drs. Steve Graham & Betty Hayes).
- 2014 Organizer, Mapping Our Research Workshop (Co-Organized with Drs. Jeanne Wilcox and Audrey Ammerand-Beardsley), Teachers College Annual Summit.
- 2014 Organizer, Undergraduate Designing for Future Learning Internship Program,
- 2013 Invited Presenter, Design-Based Research presentation to Learning, Literacies, & Technology Doctoral Program Interdisciplinary Seminar (Instructors: Drs. Steve Graham & Betty Hayes).
- 2013 Invited Presenter, Educational Technology Doctoral Seminar (Instructor: Dr. Robert Atkinson).
- 2013 Panelist, *Learning Sciences* panel discussion for Division of Educational Leadership and Innovation faculty (October 11, 2013).
- 2013 Panelist, *Interdisciplinary Research*. Panel Discussion for Doctoral Program Campus Recruitment Visit (March 6, 2013).
- 2009 Chairperson & Conference Organizer, Nexus of Research & Practice Conference, National Institute of Education, Singapore.
- 2008 Chairperson & Conference Organizer, Digital Media & Learning Conference, Nanyang Technological University, Singapore.

LOCAL

- 2018 Co-convenor, School Leadership Garden Summit, Administrator workshop on cultivating student success with school gardens. Phoenix, Arizona.

COURSE TEACHING

ARIZONA STATE UNIVERSITY

DCI 691: Design-Based Research in Education	EDT 591: Designing for Future Learning
DCI 691: Mixed Methods Research	EDP 540: Theoretical Views of Learning
EDT 506: Educational Evaluation	LSE 570: Case Exemplars of Learning Systems
EDT 530: Technology Integration Methods	LSE 591: Learning Sciences Pro-seminar
EDT 545: Using the Internet in Education	LSE 593: Applied Projects

LSE 599: Thesis
TEL 215: Child & Adolescent Development
TEL 313: Technology in an Educational Setting

TEL 504: Learning & Instruction
TEL 702: Dynamic Contexts of Education
TEL 704: Leadership for Organizational Change

UNIVERSITY OF HOUSTON

Research Methods in Education I

Research Methods in Education II

NATIONAL INSTITUTE OF EDUCATION, SINGAPORE

Qualitative Research Methods
Games & Simulations for Learning

Interactive Learning Environment Design
Educational Technology for Engaged Learning

INDIANA UNIVERSITY, BLOOMINGTON

Educational Psychology for Teachers

THE HERITAGE SCHOOL, NEW YORK CITY

Mathematics

Economics

HEDARU SECONDARY SCHOOL, TANZANIA

Mathematics

Physics

STUDENT MENTORING

DISSERTATION COMMITTEE CHAIR

Annette Schmidt. Arizona State University. Learning, Literacies, & Technology PhD program.

Amanda Riske. Arizona State University. Learning, Literacies, & Technology PhD program.

James Thomas. Arizona State University. Educational Technology PhD Program.

Tome Martinez. Arizona State University. Educational Technology PhD Program.

DISSERTATION COMMITTEE MEMBER

Melissa Sacchetta. Arizona State University. Speech & Hearing Science PhD Program.

Cory Lomonte. Arizona State University. Educational Leadership & Innovation EdD Program.

Dianna Lippincott. Arizona State University. Educational Leadership & Innovation EdD Program.

Priyanka Parekh. Arizona State University. Learning, Literacies, & Technology PhD program.

Jennifer Vargas Wright. Arizona State University. Educational Technology PhD Program.

THESIS COMMITTEE CHAIR

Rebekah Jongewaard. Arizona State University. Learning Sciences MA Program. 2021.

Siyuan Lee. Arizona State University. Learning Sciences MA Program. 2019.

Elizabeth Sanders. Arizona State University. Learning Sciences MA Program. 2019.

THESIS COMMITTEE MEMBER

Isis Howard. Arizona State University. Learning Sciences MA Program. 2022 anticipated.

Curtiss Brouthers. Arizona State University. Learning Sciences MA Program. 2021.

Digengni. Arizona State University. Learning Sciences MA Program. 2020.

EXTERNAL DISSERTATION EXAMINER

Doctoral candidate. Nanyang Technological University (Singapore).

Doctoral candidate. University of Haifa (Israel).

SERVICE

PROFESSIONAL

2018 – Present Editorial Board Member, *International Journal Educational Leadership & Policy*

2013 – Present Editorial Board Member, *Journal of Research on Technology in Education*

2007 – Present Ad Hoc Reviewer for *Journal of the Learning Sciences*, *Sage Open*, *Interactive Learning Environments*, *British Journal of Educational Technology*, *Journal of Science Education and Technology*, *Science Education*

2002 – Present Conference Reviewer for *International Conference of the Learning Sciences* and *American Education Research Association*.

2018 Program Committee, *International Conference on Computers in Education*

2018, 2016, 2012 Grant Review Panelist, *National Science Foundation*

2016 – 2019 Board Member, *Arizona Educational Research Organization*.

2014 – 2017 Grant Review Panelist, *National Institute of Education, Singapore*.

2004 – 2006 Student Editorial Advisory Board Member, *Educational Researcher*, *Research News & Comment* section.

INSTITUTION

2016 – Present Faculty Affiliate, Center for Advanced Studies in Global Education.

2012 – Present Faculty Affiliate, Center for Games & Impact.

2017 – 2019 Faculty Affiliate, Early Career Scholars of Teaching and Learning.

2015 – 2019 Faculty Affiliate, Institute for the Science of Teaching & Learning.

2016 – 2018 Faculty Affiliate, Center for the Art & Science of Teaching.

2012 – 2015 Faculty Affiliate, Learning Sciences Institute.

COLLEGE

2019 – 2020 Teaching Excellence Committee.

2014 – 2017 Advisory Board Member, Professional Learning Library College Repository.

2013 – 2017 Faculty Affiliate, *edXchange* knowledge mobilization initiative.

DEPARTMENT

2015 – Present	Program Coordinator, Learning Sciences Master’s Degree Program.
2021-Present	Search Committee, Engineering Education Faculty Search.
2016 – 2019	Admissions Committee Member, Learning, Literacies, & Technology PhD Program.
2013 – 2015	Program Committee Member, Learning, Literacies, & Technology PhD Program.
2014 – 2015	Program Planning Committee Chair, Learning Sciences MA Program.
2013 – 2015	Faculty Mentor, Educators Academy.
2014	Student Specialization Subcommittee Member, Learning, Literacies, & Technology Doctoral Program.
2014	Search Committee Member, Curriculum Studies Faculty Search.
2013 – 2014	Faculty Mentor, International Leaders in Education Program.
2013	Search Committee Member, Learning Sciences Faculty Search.
2012 – 2013	Review Committee Member, Graduate Student Fellowships.

MEMBERSHIP IN PROFESSIONAL SOCIETIES

American Educational Research Association
International Society of the Learning Science