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EDUCATION

- Ph.D.** 2020
Curriculum and Instruction
Learning Technologies (Concentration)
University of Texas, Austin, TX
Dissertation title: "Bridging disciplines : A case study of interdisciplinary design-based learning between undergraduate artists and engineers."
Advisor: Joan E. Hughes, Learning Technologies, UT-Austin
- MBA** 2008
Strategic Management
University of North Texas, Denton, TX
- M.Music** 2007
Performance (Saxophone)
Musicology (Minor)
University of North Texas, Denton, TX
- B.Music** 2003
General Music / Education
University of North Texas, Denton, TX

PUBLICATIONS

Journal Publications

- Harron, J., & Shannon, K.** (2026). The ever-changing and evolving role of K-12 technology coaches and specialists: A systematic literature review. *Contemporary Issues in Technology and Teacher Education*, 26(1).
<https://citejournal.org/volume-26/issue-1-26/general/the-ever-changing-and-evolving-role-of-k-12-technology-coaches-and-specialists-a-systematic-literature-review>
- Jin, Y., & **Harron, J.** (2023). An investigation of in-service teachers' perceptions and development of computational thinking skills in a graduate emerging technologies course. *International Journal of Computer Science Education in Schools*, 6(2). <https://doi.org/10.21585/ijcses.v6i2.165>
- Harron, J. R.,** Jin, Y., Hillen, A., Mason, L., & Siegel, L. (2022). Maker math: Exploring mathematics through digitally fabricated tools with K-12 in-service teachers. *Mathematics*, 10(17), 3069, 1-31.
<https://doi.org/10.3390/math10173069>

Jin, Y., & **Harron, J. R.** (2022). Maker education infusion in educator preparation programs: A 2025 vision for technology and teacher education. *Journal of Technology & Teacher Education*, 30(2), 265–274. <https://www.learntechlib.org/primary/p/221081/>

Harron, J. R., Emert, R., Thomas, D. M., Campana, J. (2022). Laying the groundwork for STEAM: Scaling and supporting 3D design and printing in higher education. *Frontiers in Education* 6(763362), 1-6. <https://doi.org/10.3389/feduc.2021.763362>

Rodriguez, S., Smith, S., & **Harron, J. R.** (2021). Analyzing the development of science and mathematics teachers' maker-centered philosophy and instructional practices. *Contemporary Issues in Technology and Teacher Education*, 21(1), 97-125.
<https://citejournal.org/volume-21/issue-1-21/science/analyzing-the-development-of-science-and-mathematics-teachers-maker-centered-philosophy-and-instructional-practices>

Harron, J. R., Petrosino, A. J., & Jenevein, S. (2019). Using virtual reality to augment museum-based field trips in a preservice elementary science methods course. *Contemporary Issues in Technology and Teacher Education*, 9(4), 687-707.
<https://www.citejournal.org/volume-19/issue-4-19/science/using-virtual-reality-to-augment-museum-based-field-trips-in-a-preservice-elementary-science-methods-course>

Rodriguez, S. R., Fletcher, S., & **Harron, J. R.** (2019). Introducing 'making' to elementary and secondary preservice science teachers across two university settings. *Innovations in Science Teacher Education*, 4(4).
<https://innovations.theaste.org/introducing-making-to-elementary-and-secondary-preservice-science-teachers-across-two-university-settings/>

Rodriguez, S. Allen, K., **Harron, J.**, & Qadri, A. (2019). Making and the 5E learning cycle. *The Science Teacher*, 86(5), 48-55. https://doi.org/10.2505/4/tst18_086_05_48

Harron, J. R. & Hughes, J. E. (2018). Spacemakers: A leadership perspective on curriculum and the purpose of K-12 educational makerspaces. *Journal of Research on Technology in Education*, 50(3), 253-270. <https://doi.org/10.1080/15391523.2018.1461038>

Marshall, J. & **Harron, J. R.** (2018). Making learners: A framework for evaluating making in STEM education. *Interdisciplinary Journal of Problem-based Learning*, 12(2).
<https://doi.org/10.7771/1541-5015.1749>

Harron, J. R. (2018). Introducing preservice STEM teachers to computer science: A narrative of theoretically oriented design. *Texas Education Review*, 6(1), 17-33.
<https://doi.org/10.15781/T20R9MM9X>

Petrosino, A. J., Sherard, M. K., **Harron, J. R.**, & Stroup, W. M. (2018). Using collaborative agent-based computer modeling to explore tri-trophic cascades with elementary school science students. *Creative Education* 9(4), 615-624. <https://doi.org/10.4236/ce.2018.94043>

Rodriguez, S. R., **Harron, J. R.**, & DeGraff, M. W. (2018). UTeach Maker: A micro-credentialing program for preservice teachers. *Journal of Digital Learning in Teacher Education*, 34(1), 6-17. <https://doi.org/10.1080/21532974.2017.1387830>

Rodriguez, S., **Harron, J.**, Benfield, P., & Reyes, M. (2018). Illuminating food webs: A maker jigsaw. *Science Scope*, 42(1), 57-64. https://doi.org/10.2505/4/ss18_042_01_57

Rodriguez, S., **Harron, J. R.**, & Fletcher, S. (2018). Elements of Making: A framework to support making in the science classroom. *The Science Teacher*, 85(2), 24-30. https://doi.org/10.2505/4/tst18_085_02_24

Harron, J., Langdon, J., Gonzalez, J., & Cater, S. (2017). Digital forensics: Using smartphones to explore metadata in a simulated criminal case. *The Science Teacher*, 84(8), 31-36. https://doi.org/10.2505/4/tst17_084_08_31

Liu, M., McKelroy, E., Kang, J., **Harron, J.**, & Liu, S. (2016). Examining the use of Facebook and Twitter as an additional social space in a MOOC. *American Journal of Distance Education*, 30(1), 14-26. <https://doi.org/10.1080/08923647.2016.1120584>

Book Chapters

Titu, P., Rivera, S., Lee, D., & **Harron, J. R.** (In press). Educator journeys: Navigating artificial intelligence (AI) integration in the classroom. In M. Clay (Ed.). *Teaching and Learning Online: Embracing Artificial Intelligence in the Classroom*.

Harron, J. R., & Jin, Y. (2022). Making at a distance: A comparative case study of two maker education initiatives during the pandemic. In D. C. Gibson & M. N. Ochoa (Eds.) *Research Highlights in Technology and Teacher Education 2022* (pp. 55–62). Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/p/221749/>

Harron, J. & Liu, S. (2022). Tweeting about teachers and COVID-19: An emotion and sentiment analysis approach. In D. C. Gibson & M. N. Ochoa (Eds.) *Research Highlights in Technology and Teacher Education 2022* (pp. 109–118). Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/p/221749/>

Jin, Y., **Harron, J.**, & Maddox, H. (2022). Virtual making: Transforming maker education in a teacher education program during the COVID-19 pandemic. In V. Dennen, C. Dickson-Deane, X. Ge, D. Ifenthaler, S. Murphy, & J. C. Richardson, (Eds.) *Global Perspectives on Educational Innovations for Emergency Situations* (pp. 159–168). Springer Cham. ISBN 978-3-030-99633-8. <https://doi.org/10.1007/978-3-030-99633-5>

Rodriguez, S. R., **Harron, J. R.**, Chang, S., & Penney, L. (2022). Exploring the core features of UTeach Maker: A collaborative micro-credentialing model. In Y. Huang (Ed.), *Handbook of Research on Credential Innovations for Inclusive Pathways to Professions* (pp. 139-159). IGI Global. <https://doi.org/10.4018/978-1-7998-3820-3.ch007>

Liu, S. & **Harron, J. R.** (2021). What Twitter tells us about the pandemic and online education. In C. Cheong, J. Coldwell-Neilson, K. MacCallum, T. Luo, & A. Scime (Eds.), *COVID-19 and Education: Learning and Teaching in a Pandemic-Constrained Environment*, (pp. 481-497). Informing Science Institute (ISI).

https://www.google.com/books/edition/COVID_19_and_Education/2IAwEAAAQBAJ?hl=en&gbpv=1&pg=PA481

Harron, J. R. & Mason, L. (2021). Creating virtual spaces: Using eXtended Reality and transformative technologies to prepare teachers to thrive in an ever-changing world. In R. Ferdig & K. Pytash (Eds.), *What Teacher Educators Should Have Learned From 2020*, (pp. 213-227). Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/p/219088/>

Rodriguez, S. R., **Harron, J.**, & Smith Brooks, H. (2020). UTeach Maker: Preparing future STEM educators for classroom-based making. In J. Goodall & S. Koç (Eds.), *Preparing STEM Teachers: A Replication Model*, (pp. 103-117). Information Age Publishing (IAP).

Liu, M., Su, S., Sa, L., **Harron, J.**, Fickert, C., & Sherman, B. (2016) Exploring 3D immersive and interactive technology for designing educational learning experiences. In L. A. Tomei (Ed.), *Handbook of research on 3-D virtual environments and hypermedia for ubiquitous learning* (pp. 243-261). IGI Global.

Liu, M., Kang, J., McKelroy, E., **Harron, J.**, & Liu, S. (2016). Investigating students' interactions with discussion forums, Facebook, and Twitter in a MOOC and their perceptions. In B. H. Khan (Ed.), *Revolutionizing modern education through meaningful e-learning implementation* (pp. 18-41). IGI Global.

Conference Proceedings

Harron, J., Madubike, B. & Thomas, D. (2025). Creating engaging collaborative experiences in extended reality: Design and development insights. In R. Jake Cohen (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1709-1713). Orlando, FL, USA: Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/primary/p/225720/>

Harron, J. & Shannon, K. (2025). Literature review of K-12 technology coaches and specialists leadership role. In R. Jake Cohen (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1545-1550). Orlando, FL, USA: Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/primary/p/225696/>

***Harron, J., Thomas, D., & Campana, J. (2023).** The 3D printing ecosystem: A socio-technical approach to scaling and support 3D literacies. In E. Langran (Ed.), *Proceedings of Society of Information Technology & Teacher Education International Conference* (pp. 1076-1079). Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/p/221967/>

*SITE 2023 Second Place Poster Presentation

Harron, J. (2022). Design considerations for creating immersive web-based eXtended reality technologies. In E. Langran & D. Henriksen (Eds.), *Proceedings of SITE Interactive Conference* (pp. 331-335). Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/p/221613/>

Harron, J. (2022). The teacherdemic: A social media analysis of Instagram hashtags #careersforteachers and #teachersleavinged. In E. Langran (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1498-1501). San Diego, CA, United States: Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/primary/p/220935/>

***Harron, J. & Liu, S. (2022).** Tweeting about teachers and COVID-19: An emotion and sentiment analysis approach. In E. Langran (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 1502-1511). San Diego, CA, United States: Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/primary/p/220936/>

*SITE 2022 Outstanding Paper Award

Jin, Y. & Harron, J. (2022). An investigation of in-service teachers' perceptions and development of computational thinking skills in a graduate emerging technologies course. Full paper presented at the 2022 Annual Society for Information Technology and Teacher Education (SITE) Conference. San Diego, CA. <https://academicexperts.org/conf/site/2022/papers/61015/>

Harron, J. & Jin, Y. (2021). Virtual constructionism: Addressing equitable access to making and hands-on computing across online and hybrid settings. In E. Langran & D. Rutledge (Eds.), *Proceedings of SITE Interactive Conference* (pp. 295-296). Online, United States: Association for the Advancement of Computing in Education (AACE).

<https://www.learntechlib.org/primary/p/220209/>

Harron, J. & Liu, S. (2020). Coronavirus and online learning: A case study of influential K-12 teacher voices on Twitter. In E. Langran (Ed.), *Proceedings of SITE Interactive 2020 Online Conference* (pp. 719-724). Online: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/218229/>

Harron, J. R., Myers, R., & Hughes, J. E. (2020). Are your students 'Slack'ers?: Using cloud-based communication to elicit peer and instructor feedback. In *Proceedings of the Connected Learning Summit (CLS) 2019*, Irvine, CA. <https://2019.connectedlearningsummit.org/proceedings/>

Harron, J. R. (2019). *Work in progress: Multidisciplinary learning between engineering, communication, and fine arts majors through the creation of movie special effects*. Paper presented at 2019 ASEE Annual Conference & Exposition, June 15–19, 2019, Tampa, Florida. <https://peer.asee.org/33640>

Petrosino, A. J., & Sherard, M. K., & **Harron, J. R.** (2019). *Board 25: Work in progress: Understanding pre-service teacher beliefs about vaccination using and modifying group-based computational simulations*. Paper presented at 2019 ASEE Annual Conference & Exposition, June 15–19, 2019, Tampa, Florida. <https://peer.asee.org/31907>

Petrosino, A., Sherard, M., **Harron, J.** & Kohl, M. (2018). Using collaborative agent-based modeling to explore complex phenomena in pre- and in-service teacher education. In E. Langran & J. Borup (Eds.), *Proceedings of the Society for Information Technology & Teacher Education International Conference (SITE) 2018* (pp. 1669-1671). Washington, D.C., United States: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/182753/>

Harron, J., Petrosino, A., & Jenevein, S. (2017). Development of museum learning experience using virtual reality and mobile devices. In P. Resta & S. Smith (Eds.), *Proceedings of the Society for Information Technology & Teacher Education International Conference (SITE) 2017* (pp. 1592-1597). Austin, TX, United States: Association for the Advancement of Computing in Education (AACE). <https://www.learntechlib.org/primary/p/177441/>

Technical and Practitioner Reports

Rodriguez, S., **Harron, J.**, Chang, S., & Spicer, J. (2019, March). Infosys Foundation USA - C3 Maker planning summit (Final Report). Austin, TX: UTeach Maker Consortium. <https://drive.google.com/file/d/1Hu4nO1YJOOp3YCzy-DFkfrZfwrlBr1XO/view>

UTeach Maker Consortium. (2019, February). Incorporating maker-centered learning into preservice STEM teacher education: A model from UTeach Maker [White paper]. https://drive.google.com/file/d/1p7jT_d5x5ZLiKRwA9lhnUXnGaMSP8wqp/view

PRESENTATIONS AND WORKSHOPS

Conference Presentations and Workshops

Harron, J. (2025, July 29). *Artificial intelligence and ethics in education*. [Workshop session]. 2025 Cobb Instructional Technology Conference, Kennesaw, GA.

Harron, J., Jin, Y., Ziegler, L., & Hillen, A. (2025, April 23-27). *Making math tangible: Designing and creating digitally fabricated math tools for standards-based K-12 contexts* [Poster session]. 2025 American Education Research Association Conference, Denver, CO.

Carrier, A. M., & **Harron, J.** (2025, April 23-27). *How do varying levels of immersive VR affect student performance in high school science?* [Paper session]. 2025 American Education Research Association Conference, Denver, CO.

Harron, J., & Thomas, D. (2025, April 23-27). ColabXR: Exploring On-demand Instruction within a Collaborative Extended Reality (XR) Learning Environment [Poster sessions]. 2025 American Education Research Association Conference, Denver, CO.

Jin, Y., Hassan, R., Fu, Y., Qian, J., **Harron, J.**, Mishnich, N., Comstock, K., & Fry Ware, T. (2025, March 17–21). *Symposia of systematic literature review on technology leadership in education* [Symposia presentation]. Society for Information Technology and Teacher Education (SITE) 2025 Annual Conference. Orlando, FL, United States.

Harron, J. (2024, June 5). *Expanding Horizons: Extended Reality in the K-12 Classroom.* [Workshop session]. 2024 Cobb Instructional Technology Conference, Marietta, GA.

***Harron, J.**, & Thomas, D. (2024, March 25-29). *ColabXR: Designing and developing collaborative web-based immersive learning environments* [Poster demonstration]. Society of Information Technology and Teacher Education 35th Annual Conference, Las Vegas, NV.

*SITE 2024 Outstanding Poster Presentation - 3rd Place

Harron, J., Jin, Y., Hillen, A., & Ziegler, L. (2024, March 25-29). *Addressing challenges with designing, creating, and incorporating digitally fabricated math tools in standard-based K-12 contexts* [Best practices]. Society of Information Technology and Teacher Education 35th Annual Conference, Las Vegas, NV.

Harron, J., Johnson, A., Wilson, M. Earnshaw, Y., & Huh, Y. (2024, March 25-29). *Learning design and technology: Innovating at the undergraduate level* [Brief paper]. Society of Information Technology and Teacher Education 35th Annual Conference, Las Vegas, NV.

Jin, Y. & **Harron, J.** (2023, June 2). *Artificial intelligence and ethics in education.* [Workshop session]. 2023 Cobb Instructional Technology Conference, Kennesaw, GA.

Harron, J. R., Jin, Y., & Hillen, A. (2023, April 13-16). *Broadening participation: Exploring the hidden beauty of mathematics with in-service teachers and digitally fabricated manipulatives* [Roundtable session]. American Education Research Association (AERA) 2023 Annual Meeting, Chicago, IL, United States.

Harron, J. R. (2022, September 5). Virtual constructionism: Lessons learned from conducting online maker education during the COVID-19 pandemic. 2022 3rd Asian Education Technology Symposium. Online.

Jin, Y. & **Harron, J.** (2022, June 8). *Maker math: Engaging students with hands-on geometry* [Workshop session]. 2022 Cobb Instructional Technology Conference, Kennesaw, GA.

Harron, J. R., Siegel, L., Han, S., & Shao, P. (2021). *MathHappens: Making math personal.* Workshop at the annual Connected Learning Summit 2021 (CLS2021), July 7-30, 2021, Online.

Benfield, P., **Harron, J. R.**, & Han, S. (2021). *Micro:bit enabled circuit blocks: A modular approach to computational tinkering*. Tech demo at the annual Connected Learning Summit 2021 (CLS2021), July 7-30, 2021, Online.

Jin, Y., Brantley-Dias, L., Wilson, M., Lee, D., & **Harron, J.** (2020). Part 1 & 2: Job search, online interviews, and virtual campus visits during the pandemic: Mentoring advice from a department of instructional technology's faculty. Mentoring Moment at *SITE Interactive 2020*.

Harron, J. R., Freed, N., Rodriguez, S. R., & DeGraff, M. (2019). *Digital storytelling: A new CS kit for Step 1*. Presentation at the annual UTeach Institute Conference, May 21–23, 2019, Austin, TX.

Rodriguez, S. R. & **Harron, J. R.** (2019). *Designing a maker-centered 5E lesson*. Presentation at the annual UTeach Institute Conference, May 21–23, 2019, Austin, TX.

Rodriguez, S. R., Cardenas, S., Brooks, H., & **Harron, J. R.** (2019). *Using an open portfolio for microcredentialing: The UTeach Maker Model*. Presentation at the annual UTeach Institute Conference, May 21–23, 2019, Austin, TX.

Vakil, S., **Harron, J. R.**, Gingell, G., & Russo-Tait, T. (2019). *Preservice teachers making sense of algorithms and their politics: Design reflections from a professional development institute*. Paper session at the annual conference of the American Education Research Association (AERA), April 5–9, 2019, Toronto, ON, Canada.

Petrosino, A. J., Sherard, M. K., **Harron, J. R.**, Brady, C., Stroup, W. M., & Wilensky, U. J. (2019). *Developing preservice teachers' conceptualization of models and simulations through Group-based Cloud Computing*. Poster session at the annual conference of the American Education Research Association (AERA), April 5–9, 2019, Toronto, ON, Canada.

Rodriguez, S. R., Fletcher, S. S., **Harron, J. R.** (2019). *An introduction to making in two science methods courses*. Presentation at the annual conference of the Association for Science Teacher Educators (ASTE), January 3–5, 2019, Savannah, GA.

Harron, J. R., Benfield, P., & Rodriguez, S. R. (2018). *Publishing with your UTeach students*. Presentation at the annual UTeach Institute Conference, May 22–24, 2018, Austin, TX.

Rodriguez, S. R., Siegel, L., Larson, G., Crawley, P., Bora, A., & **Harron, J. R.** (2018). Using making to promote inquiry in mathematics. Presentation at the annual UTeach Institute Conference, May 22–24, 2018, Austin, TX.

Petrosino, A. J., Stroup, W. M., Brady, C., **Harron, J. R.**, & Sherard, M. K. (2018). *One year-later: Group-based Cloud Computing*. Presentation at the annual convention of the UTeach Institute, May 22–24, 2018, Austin, TX.

Harron, J. R., Petrosino, A. J., & Jenevein, S. (2018). *Pre-service elementary education teacher perspectives of the use of virtual reality in science teaching*. Paper session at the annual convention of the American Educational Research Association (AERA), April 13–17, 2018, New York, NY.

Petrosino, A. J., Sherard, M. K., **Harron, J. R.**, & Stroup, W. M. (2018). *Using group-based cloud computational models as a way to help students investigate complex Yellowstone trophic interactions*. Poster at the annual convention of the American Society of Engineering Education Gulf-Southwest Section, April 4–6, 2018, Austin, TX.

Petrosino, A. J., Stroup, W. M., **Harron, J. R.**, & Sherard, M. K. (2017). *Group-based cloud computing for STEM education*. Poster at the annual convention of the American Society of Engineering Education (ASEE), June 23–25, 2017, Columbus, OH.

Rodriguez, S., & **Harron, J.** (2017). *“Making” your way through Step 1: A maker final project*. Presentation at the annual UTeach Institute Conference, May 23–25, 2017, Austin, TX.

Rodriguez, S., DeGraff, M., & **Harron, J.** (2017). *UTeach maker: An innovative micro-credentialing program*. Presentation at the annual UTeach Institute Conference, May 23–25, 2017, Austin, TX.

Harron, J. (2016). *Animatronic teddy bears: Using Arduino to combat STEM summer learning loss*. Poster at the annual convention of the International Society for Technology Education, June 26–29, 2016, Denver, CO.

Harron, J., & Ware, J. (2016). *Designing the future: Launch strategy for a design thinking high school*. Poster at the annual convention of the International Society for Technology Education, June 26–29, 2016, Denver, CO.

Harron, J. (2016). *What is the role of makerspaces in K-12 education?* Academy Breakout Session at the annual convention of the Texas Computer Education Association, February 1–5, 2016, Austin, TX.

Harron, J., & Sa, L. (2016) *Unleash the power of mobile devices with immersive educational VR*. Presentation at the annual convention of the Texas Computer Education Association, February 1–5, 2016, Austin, TX.

Harron, J., Liu, M., Sa, L., & Myers, R. (2016) *Alien Rescue: An immersive 3D game-based approach for teaching middle school science*. Academy Breakout Session at the annual convention of the Texas Computer Education Association, February 1–5, 2016, Austin, TX.

Liu, M., McKelroy, E., Kang, J., **Harron, J.** & Sa, L. (2015) *Examining the use of Facebook and Twitter as an additional social space in a MOOC*. Presentation at the annual convention of the Association for Educational Communications and Technology, Indianapolis, IN.

Liu, M., Myers, R. & **Harron, J.** (2015). *Motivating students to learn science using a game-based learning approach*. Poster presented at the annual convention of the International Society for Technology Education, June 28–July 1, 2015, Philadelphia, PA.

Spencer, M., FitzPatrick, D., Stroup, W., Costello, C., **Harron, J.**, & Rodriguez, S. (2015) *UTeach and the maker movement: Is there a connection?* Interactive Presentation at the annual UTeach Institute Conference, May 19–21, 2015, Austin, TX.

Invited Presentations, and Workshops

Harron, J.R. (2024). *Machine learning, artificial intelligence, and immersive 3-D technologies*. Invited guest speaker, BCOE Committees Partners at Microsoft, April 11, 2024, Atlanta, GA.

Harron, J. R. (2022). *EDC 396 Doctoral Seminar: Learning Technologies*. Invited guest speaker, The University of Texas at Austin, College of Education, March 29, 2022, Online.

Harron, J. (2021). *Computation in the classroom: Digital Storytelling in Scratch*. Invited presentation at the 3rd Annual Kennesaw State University (KSU) Module Learning Summit, October 23, 2021, Online.

Harron, J. R. (2018). *Creating a programmable light-up snow globe*. Invited workshop by Dr. Stephen Fletcher, St. Edwards University, School of Human Development and Education, December 9, 2018, Austin, TX.

Harron, J. R. & Gingell, G. (2018). *The ethics of algorithms and automation*. Invited workshop, Huston-Tillotson University, May 14–17, 2018, Austin, TX.

Campus Presentations, and Workshops

Harron, J. R. & Madubike, B. (2024, December 1). BCOE Research Week, *ColabXR: Exploring Collaborative Learning in an Extended Reality Environment*. Kennesaw State University, Kennesaw, GA.

Harron, J.R., Bhattacharya, S., & Karakaya, M. (2024, November 11). Host and presenter for “National Institutes of Health (NIH) Grant Information Session + Brown Bag Lunch”, Kennesaw State University, Marietta, GA.

Harron, J.R., Bhattacharya, S., & Karakaya, M. (2024, October 24). Co-organizer and presenter for “Applied Technology Research Community - Fall AI Symposium”, Kennesaw State University, Marietta, GA.

Harron, J.R., Bhattacharya, S., & Karakaya, M. (2024, August 20). Organizer and presenter for “KSU Geek Week - Applied Technologies”, Kennesaw State University, Marietta, GA.

Harron, J.R., Bhattacharya, S., & Karakaya, M. (2024, April 24). Host and presenter for “Spring AI Symposium”, Kennesaw State University, Marietta, GA.

Harron, J. R. & Lee, D. (2023, December 1). Guest presenter for Research Consortium Committee, *Dissertation to Publication*. Kennesaw State University, Kennesaw, GA.

Harron, J. R., Jin, Y., Hillen, A. F., Thomas, D., & Ziegler, L. (2023, November 7). KSU BCOE Research Week 2023, "Maker Math 2.0: Teaching DigitalFabrication," Kennesaw State University, Kennesaw, GA.

Harron, J. R. (2023, September 29). Guest lecture for BCOE MAED6416 course by Dr. Belinda Edwards, Kennesaw State University, Bagwell College of Education, Kennesaw, GA.

Harron, J. R. (2023, September 29). Guest lecture for Information Systems IS2200 course by Dr. May Bantan, Kennesaw State University, Coles College of Business, Kennesaw, GA.

Croft, S., Glassmeyer, D., **Harron, J.,** Jean-Sigur, R., Mason, L., & Pourreau, L. (2021, March 26). *Mentoring doctoral researchers: Panel discussion and roundtable/work session*. Kennesaw State University, Bagwell College of Education, Kennesaw, GA.

Harron, J. R. (2020, September). Guest lecture for graduate Advanced Qualitative Research Methods (EDRS 9100) course by Dr. Julie Moore, Kennesaw State University, Bagwell College of Education, Kennesaw, GA.

Harron, J. R. (2019, October). *Bridging the design disciplines*. Guest lecture for graduate Systems of Human Inquiry course by Dr. Jo Worthy, The University of Texas at Austin, College of Education.

Harron, J. R. (2019, June). *Virtual and augmented reality research*. Guest lecture for graduate Learning Science / STEAM Reform course by Dr. Anthony Petrosino, The University of Texas at Austin, College of Education.

Harron, J. R. (2018, November). *Spacemakers: A leadership perspective on curriculum and the purpose of K-12 educational makerspaces*. Guest lecture for Undergraduate Seminar course by Dr. Joan Hughes, The University of Texas at Austin, College of Education.

Harron, J. R. (2018, June). *Virtual field trips*. Guest lecture for graduate Learning Science / STEAM Reform course by Dr. Anthony Petrosino, The University of Texas at Austin, College of Education.

Harron, J. R. (2017, October). *Modeling complex adaptive systems and segregation in Austin*. Guest lecture for graduate Systemic Reform course by Dr. Anthony Petrosino, The University of Texas at Austin, College of Education.

Harron, J. R. (2017, June). *Making and emerging trends in education*. Guest lecture for graduate Learning Science / STEAM Reform course by Dr. Anthony Petrosino, The University of Texas at Austin, College of Education.

Harron, J. R. (2017, February). *Introduction to circuit blocks and scribblebots*. Invited workshop for UTeach Step 1 Mentor Teachers, The University of Texas at Austin, College of Natural Science.

Harron, J. R. (2016, September). *Inventing and creating in the classroom*. Invited workshop for UTeach Step 1 Mentor Teachers, The University of Texas at Austin, College of Natural Science.

Harron, J. R. (2016, February). *Maker movement in education*. Invited workshop for UTeach Step 2 Mentor Teachers, The University of Texas at Austin, College of Natural Science.

Harron, J. R. (2015, November). *Maker movement and makerspaces*. Guest lecture for Undergraduate Seminar course by Dr. Joan Hughes, The University of Texas at Austin, College of Education.

Harron, J. R. (2015, September). *Maker movement in education*. Invited workshop for UTeach Step 1 Mentor Teachers, The University of Texas at Austin, College of Natural Science.

RESEARCH EXPERIENCE

Current Research Projects

PI, "Collaborative XR Models and Simulations", Principle Investigator: Jason Harron, Kennesaw State University	2023 – Pres.
PI, "Maker Math". Co-PIs: Amy Hilen, Yi Jin, Kennesaw State University, Luke Zeigler, University of West Georgia	2021 – Pres.
Co-PI, "The 3D Printing Ecosystem". Co-PIs: Randy Emert, Jeff Campana, Dominic Thomas, and Jason Harron, Kennesaw State University.	2021 – Pres.

Past Research Projects

Co-PI, "Computational Thinking with In-service Teachers". Co-PI: Jason Harron & Yi Jin, Kennesaw State University	2021 – 2023
Co-PI, "Twitter and Teachers". Co-PI: Jason Harron (Kennesaw State University) & Sa Liu (Harrisburg University of Science and Technology).	2020 - 2022
Graduate Research Assistant, "UTeach Noyce Scholarships and Stipends", National Science Foundation #1557155, Principal Investigator: Michael Marder, The University of Texas at Austin.	2019
Graduate Research Assistant, "Group-based cloud computing (GbCC) for STEM education", National Science Foundation #DRL1615207, Principal Investigator: Walter Stroup (Dartmouth, MA) Co-PI: Uri Wilensky (Northwestern), Anthony Petrosino (UT-Austin), & Cory Brady (Vanderbilt), The University of Texas at Austin. URL: https://www.gbccstem.com/	2017 - 2019
Graduate Research Assistant, "UTeach Maker: A micro-credentialing program for preservice STEM teachers", Principal Investigator: Shelly Rodriguez, The University of Texas at Austin. URL: https://maker.uteach.utexas.edu/	2016 - 2019
Graduate Research Assistant, "Ethics and computing with pre-service teachers", Google, Principal Investigator: Sepher Vakil, The University of Texas at Austin.	2017 - 2018
Directed Research, "Pre-service teachers' experiences with virtual reality tours of a natural history museum", Principal Investigator: Anthony Petrosino, The University of Texas at Austin. URL: https://jasonharron.com/tmm	2016 - 2018
Directed Research, "Assessments of the effectiveness of inquiry-based STEM curriculum", Principal Investigator: Jill Marshall, The University of Texas at Austin.	2016 - 2018
Independent Research, "Examining professional development of pedagogy knowledge using a massive open online course (MOOC)", Principal Investigator: Min Liu, The University of Texas at Austin. URL: https://www.edx.org/course/classroom-strategies-inquiry-based-utaustinx-ut-i-itl-11-02x	2016 - 2017
Independent Research, "Spacemakers: Leadership role in establishing educational makerspaces", Principal Investigator: Joan Hughes, The University of Texas at Austin.	2015 - 2018
Member, Research Team, "Exploring 3D immersive and interactive technology for designing educational learning experiences", Principal Investigator: Min	2015

Liu, The University of Texas at Austin.

Member, Research Team, "Investigating students' interactions with discussion forums, Facebook, and Twitter in a MOOC and their perceptions", Principal Investigator: Min Liu, The University of Texas at Austin. 2014 - 2015

Member, Research Team, "Alien Rescue", Principal Investigator: Min Liu, The University of Texas at Austin. URL: <https://alienrescue.edb.utexas.edu/> 2014 - 2015

GRANT WRITING EXPERIENCE

Funded

Harron, J., Jin, Y., Hillen, A., Thomas, D., & Ziegler, L. Grant, "Maker Math 2.0: Teaching DigitalFabrication through the Design, Creation, Application, and Sharing of Standards-Based MathManipulatives", Sponsored by KSU BCOE, Kennesaw State University, \$1,500.00. (Funded). 2023- Present

Jin, Y., **Harron, J.**, & He, S, Grant, "Computational Thinking (CT) for Teacher Education Research Team", Sponsored by Bagwell College of Education, Kennesaw State University, \$2,000.00. (Funded.) 2021 - 2022

Emert, R. A., Thomas, D., Campana, J. C., **Harron, J.**, Grant "Networked 3D Printer Labs project", Sponsored by KSU Office of CIO, Kennesaw State University, \$98,770.00. (Funded.) 2021 - 2022

Not Funded

Chakravarty, S. (Principal), Islam, R. (Co-Principal), Bhattacharya, S. (Co-Principal), **Harron, J.**(Co-Principal), Sponsored Research (Grants), "INSPIRE-AI: Responsible Use of XR-LLM",Sponsored by NSF, Federal, \$864,727.00, **Currently Under Review.** 2025

Meimandi Parizi, R. (Principal), Shamim, M. S. I. (Co-Principal), Harron, J. (Co-investigator),Sponsored Research (Grants), "Track 1: Advancing Graduate Software Engineering with AI Agents for Talent Development and Workforce Readiness", Sponsored by National ScienceFoundation, Federal, \$464,861.00 (Not Funded). 2025

Zhang, X. (PI), **Harron, J. R.** (Co-PI), Lei Fan (Co-PI), Miao Pan (Co-PI), and Zhu Han (Co-PI), Grant, "ExpandQISE: Track 1: Quantum Learning Unleashed: Efficient and Privacy-Preserving Knowledge Distillation", Sponsored by National Science Foundation, Federal, \$800,000 (Not funded.) 2023

Thomas, D. (Principal), **Harron, J. R.** (Co-Principal), Grant, "IUSE:EDU: 3D Printing Faculty Fellowship Community", Sponsored by National Science Foundation, Federal, \$389,925.00 (Not funded) 2023

Emert, R. A. (Principal), Campana, J. C. (Co-Principal), Harron, J. R. (Co-Principal), Thomas, D.(Co-Principal), Grant, "NSF IUSE", Sponsored by National Science Foundation, Federal, \$300,000.00 (Not funded)	2020 - 2021
<i>UTeach Maker Consortium.</i> Co-led grant writing activities at cross-university summit involving UTeach programs from University of Texas at Austin, Boise State University, University of Houston, and West Virginia University in order to further pre-service teacher maker education. Principal Investigator: Shelly Rodriguez. (Not funded.)	2019

TEACHING EXPERIENCE

Teaching Assignments

Assistant Professor Kennesaw State University Since Aug. 2020	LDT 3500: Designing and Developing Multimedia (1 section, Face-to-face) ITEC 7430: Digital Tools for Learning (2 sections, Online) ITEC 7445: Multimedia & Web Design in Edu (2 sections, Online) ITEC 7480: Intro to Online and Blended Learning (8 sections, Online) ITEC 7481: Designing Online Learning (1 sections, Online) ITEC 7485: Creating with Emerging Technologies (20 sections, Online) ITEC 8500: Issues, Trends, and Research in IDT (4 sections Online) ITEC 9900: Dissertation (4 sections, Online)
Camp Director University of Texas May 2015 - July 2016	UTeach PREP-STEM Summer Camps (2 summers, F2F)
Teaching Assistant University of Texas Fall 2014 - Fall 2019	CS329E: Elements of Game Development (1 section, F2F) CS354S: 2-D Game Design Capstone (1 section, F2F) EDC365D: UTeach Classroom Interactions (4 sections, F2F) UTS101: UTeach Step 1 (8 Sections, F2F)
Teacher, High School Dubiski Career HS Grand Prairie, TX Fall 2011 - Spring 2014	Algebra II (10 sections, F2F) Advanced Quantitative Reasoning (1 section, F2F) Business (4 sections, F2F) Digital Media (1 section, F2F)
Teacher, Middle School Ronald Reagan MS Grand Prairie, TX Fall 2009 - Spring 2011	8th Grade Mathematics (8 sections, F2F) 8th Grade Math Remediation (2 sections, F2F)
Teaching Assistant University of North Texas Spring 2009	Business Policy (1 section, F2F)

Teaching Certifications

Business Education, Grades 6-12, Texas	2009 - Pres.
Mathematics, Grade 8-12, Texas	2009 - Pres.
Music, Grades PK-12, Texas	2003 - Pres.

SERVICE EXPERIENCE

University Level Service

Kennesaw State University, Committee Member, KSU Library Advisory Committee.	2020 - 2025
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College Level Service

Kennesaw State University, Committee Member, Bagwell College of Education (BCOE) College Faculty Council (CFC).	2022 - Pres.
Kennesaw State University, Committee Chair, Faculty Development & Awards Committee (FDAC).	2021 - 2022
Kennesaw State University, Committee Member, Faculty Development & Awards Committee (FDAC).	2020 - 2021
UT-Austin, College of Education Graduate Student Advisory Board	2018

Department Level Service

Kennesaw State University, Faculty advisor for M.Ed. Cohort 60	2024 - Pres.
Kennesaw State University, Faculty advisor for ED.S. Cohort 64 & 65	2022 - Pres.
Kennesaw State University, Doctoral student advisor for Ann Marie Carrier, Janet Brewer, and Lindsey Mason	2020 - Pres.
Kennesaw State University, Faculty advisor for M.Ed. Cohort 45 & 46	2020 - 2023
UT-Austin, UTeach Maker Advisory Board	2016 - 2020

Professional Service

Special Interest Groups

Society for Information Technology and Teacher Education (SITE), Maker SIG, Co-chair (elected, 2-year term)	2021 - 2025
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Journal Reviewer

Contemporary Issues in Technology and Teacher Education	2025 - Present
Education Science	2024 - Present
Australasian Journal of Educational Technology	2023 - Present
Behavior & Information Technology	2023 - Present
Communications of the Association for Information Sciences	2023
Georgia Educational Researcher	2022
International Journal of Child Care and Educational Policy	2022
Journal of Research on Technology in Education	2021 - Present
The British Journal of Educational Technology	2018, 2020
American Journal of Distance Education	2015, 2018
Interdisciplinary Journal of Problem-Based Learning	2015, 2018
Journal of Distance Education	2015

Book Chapter Reviewer

Global Perspectives on Educational Innovations for Emergency Situations	2021
COVID-19 and Education Book	2020
Preparing STEM Teachers: A Replication Model	2019

Conference Proposal Reviewer

SITE Annual Conference, SIG-Maker	2021 - Pres.
RESPECT	2021 - Pres.
FabLearn	2020
AREA Annual Conference, SIG-ATL/SIG-LS	2018, 2023

Community Engagement

Mentor, <i>Slow Pitch ThinkTank</i> , Texas Computer Education Association (TCEA)	2020
Volunteer photographer, <i>UTeach STEM Teacher Conference</i>	2019
Workshop volunteer, <i>Women in STEAM: Create a Jellyfish in a Bottle</i>	2019
EdTech consultant, <i>Phatchr.io</i> . URL: patchr.io	2018 - 2019
Workshop leader, <i>Create your own clouds in a bottle</i> , Explore UT	2016 - 2017
Curriculum consultant, <i>UTeach PREP 4 – Computer Science Curriculum</i>	2015 - 2017

PROFESSIONAL APPOINTMENTS

Research Champion - Applied Technologies, Office of Research, Kennesaw State University, Kennesaw, GA.	2023 - Pres.
Assistant Director of Research, MAD Lab, Department of Information Science and Security, Coles College of Business, Kennesaw State University, Kennesaw, GA.	2023 - Pres.

HONORS AND AWARDS**External**

Australasian Journal of Educational Technology (AJET) Distinguished Reviewer, 2023 Award Winner	2024
Third Place, Outstanding Poster Presentation Award (co-author Dominic Thomas), Society of Instructional Technology and Teacher Education (SITE) 2024.	2024
Second Place, Outstanding Presentation Award (co-author Dominic Thomas and Jeff Campana), Society of Instructional Technology and Teacher Education (SITE) 2023.	2023
Outstanding Paper Award (co-author Sa Liu), Society of Instructional Technology and Teacher Education (SITE) 2022.	2022
Winner, "Digital Transformation" for 3D Printer Ecosystem (co-author with Dr. Dominic Thomas, Randy Emert, and Jeff Campana), Technology Association of Georgia (TAG).	2022
Finalist, John C. Park National Technology Leadership Initiative Fellowship (co-author with Dr. S. R. Rodriguez and Dr. S. Smith), Association of Science Teacher Education (ASTE).	2020
Computers in Education (CoEd), Woody Everett Best Poster Award (co-author with Dr. A. J. Petrosino and M. K. Sherard), American Society of Engineering Education (ASEE).	2019
1st Place, Austin Education Startup Weekend, <i>Make-a-space</i>	2015
1st Place, Austin Education Startup Weekend, <i>401(K)ids</i>	2014

Internal

2024-2025 Bagwell College of Education (BCOE) Outstanding Early Career Award	2024
Spring 2020 Dissertation Writing Fellowship (\$16,367), The University of Texas at Austin, Graduate School	2020
Alexander Caswell Ellis Fellowship (\$5,800), The University of Texas at Austin, College of Education	2019 - 2020
College of Education Continuing Student Fellowship (\$16,000), The University of Texas at Austin.	2018 - 2019
Alexander Caswell Ellis Fellowship (\$7,200), The University of Texas at Austin, College of Education	2017 - 2018
Alexander Caswell Ellis Fellowship (\$7,000), The University of Texas at Austin, College of Education	2016 - 2017

Morris D. & Evelyn D. Misso Scholarship (\$3,000), University of North Texas, College of Business	2007 - 2008
Graduate Academic Scholarship (\$1,500), University of North Texas, College of Music	2006 - 2007
General Academic Scholarships (\$2,000 per year), University of North Texas, General Academic Fund	2001 - 2003

CREATIVE PRODUCTIONS

Curriculum Development

Curriculum Designer. <i>LDT 3500 - Designing and Developing Multimedia for Learning</i> . Kennesaw State University, Kennesaw, GA.	2023 - 2025
Curriculum Designer. <i>ITEC 7481 - Designing Online Learning</i> . Kennesaw State University, Kennesaw, GA.	2023 - Present
Curriculum Designer. <i>ITEC 7485 - Creating with Emerging Technologies</i> . Kennesaw State University, Kennesaw, GA.	2020 - Present
Curriculum Designer. <i>Introducing Computer Science through Digital Storytelling</i> . UTeach Institute, Austin, TX.	2019
Curriculum Designer. <i>The Ethics of Algorithms and Automation</i> . UT Center for STEM Education, Austin, TX.	2018
Curriculum Designer. <i>Computer Science and Equity Intervention Ver. 2.0</i> . UT Center for STEM Education, Austin, TX.	2017
Curriculum Designer. <i>Computer Science and Arduino</i> . UTeach Outreach, Austin, TX.	2015

Software Development

Build an Atom [Software]. URL: https://buildanatom.vercel.app/	2024 - Present
3D Lab Demo [Software]. URL: https://threedlabdemo.onrender.com/	2023 - Present
ColabXR [software]. URL: https://github.com/jasonharron/jasonharron.github.io	2023 - Present
Virtual reality tour of the Texas Memorial Museum [Software] URL: https://jasonharron.com/tmm	2016 - 2017
Virtual reality demos created for presentation at Texas Computer Educators	2016

Association (TCEA), Austin, TX. [Software]. URL: <https://edtechvr.com>

Video Production

- Public tutorials, *Elecfreaks micro:bit Starter Kit - Video Tutorials* [Video files]. 2022
URL: <https://www.youtube.com/playlist?list=PLjdvN-jHlyTPVC7YXRtmBtxe2ha2C5bBL>
- Course videos, *ITEC 7485 - Creating with Emerging Technologies*. Kennesaw State University, Kennesaw, GA. 2020 - 2021
- STEM for All Video Showcase, *The UTeach Maker Showcase: An open portfolio for documenting, sharing, and assessing* [Video file]. 2019
URL: <https://stemforall2019.videohall.com/presentations/1406>
- STEM for All Video Showcase, *Using agent-based modeling collaboratively in learning environments* [Video file]. URL: 2019
<https://stemforall2019.videohall.com/presentations/1387>
- UTeach Austin, *UTeach Austin Recruitment Video* [Video file]. 2018
URL: <https://vimeo.com/301245892>
- STEM for All Video Showcase, *UTeach Maker: A Robert Noyce teacher scholarship initiative* [Video file]. 2018
URL: <http://stemforall2018.videohall.com/presentations/1173>
- UTeach Institute, *UTeach Maker Experience* [Video file]. 2017
URL: <https://www.youtube.com/watch?v=sl7zNDinQkl>
- UTeach Institute, *UTeach Maker* [Video file]. 2017
URL: <https://www.youtube.com/watch?v=S7TPD3ZzDZE>
- edX / UTAustinX, *Unit intro and outro videos for Classroom Strategies for Inquiry-Based Learning* [Video files]. URL: 2016
<https://www.edx.org/course/classroom-strategies-for-inquiry-based-learning>

Website Development

- Website developer, *UTeach Maker* [Website]. 2015 - 2020
URL: <https://maker.uteach.utexas.edu>