

CURRICULUM VITAE

Maya Israel

Associate Professor of Educational Technology
University of Florida

Email: misrael@coe.ufl.edu

Lab website: <https://ctrl.education.ufl.edu/>

EDUCATION

Ph.D. University of Kansas, Major: Special Education. May, 2009.
M.S.Ed. University of Kansas, Major: Special Education. May, 2004.
B.A. Ottawa University, Major: Elementary Education. December, 2001.

PROFESSIONAL EXPERIENCE

2024-present Director, CSEveryone Center for Computer Science Education
2022-present Endowed Professor of Computer Science Education (Kenneth C. Griffin Computer Science Education professorship)
2021- present Director, Kenneth C. Griffin Computer Science Education for All Initiative
2018-present Associate Professor, Department of Educational Technology & Computer Science Education, School of Teaching and Learning, University of Florida
2014-present Research Director, Creative Technology Research Lab (CTRL)
<https://ctrl.education.ufl.edu/>
2017-2018 Associate Professor, Department of Special Education, University of Illinois at Urbana Champaign
2015-2018 Affiliate Appointment, Illinois Informatics Institute, University of Illinois at Urbana Champaign
2015-2018 Affiliate Appointment, Digital Environments for Learning, Teaching, and Agency (DELTA), University of Illinois at Urbana Champaign
2012-2017 Assistant Professor, Department of Special Education, University of Illinois at Urbana Champaign
2009-2012 Assistant Professor, University of Cincinnati, Dual Appointments: Special Education Program and Instructional Design & Technology Program
2010-2012 Leadership Team Members, UC FUSION STEM Research and Education Center, University of Cincinnati
2004-2009 Doctoral Fellow, Department of Special Education, University of Kansas
2002-2005 Special Education Teacher, Hyman Brand Academy, Overland Park, KS

SELECT AWARDS

2023 AccessComputing Capacity Building Award
2023 Computer Science Teachers Association (CSTA): CSEdWeek CS Hero

FUNDED GRANTS

2024-2024 **Israel, M.** (Principal Investigator). Infosys Foundation USA (\$100,000). *Inclusive*

practices professional development to advance equity and meaningful participation in elementary CS education for students with disabilities.

- 2023-2028 **Israel**, M. (Senior Personnel, leadership team, Strand 3 co-lead). National Science Foundation AI Institute (\$20,000,000; \$3 million awarded to UF). *NSF National AI Institute for Inclusive Intelligent Technologies for Education (INVITE)*.
- 2023-2026 Mincev, V., (Principal Investigator). Xing, W., & **Israel**, M. (Co-Principal Investigators). National Science Foundation, Innovative Technology Experiences for Students and Teachers (ITEST; \$1,296,442). *Collaborative Research: Using Flow-Based Music Programming to Engage Children in Computer Science*.
- 2022-2025 **Israel**, M. (Principal Investigator). Reboot Representation/UKG (\$700,000). *Driving Representation in Computer Science Education: Scholarships and Mentoring for Black, Latina, and Native American Women in K-12 Computer Science Education*.
- 2022-2024 **Israel**, M. (Principal Investigator). Google (\$100,000). *CS Inclusion: Professional Development for Teachers of K-12 Students with Disabilities in Computer Science Education*.
- 2022-2027 **Israel**, M. (Principal Investigator). Kenneth C. Griffin Foundation (\$5,000,000). *CSEveryone: The Kenneth C. Griffin Computer Science Education for All Initiative*.
- 2021-2025 Boyer, K., (Principal Investigator), & **Israel**, M. (Co-Principal Investigator). National Science Foundation, Innovative Technology Experiences for Students and Teachers (ITEST, \$1,487,140). *Fostering Computer Science and AI Learning through Youth Led Conversational App Development Experiences*.
- 2021-2024 Century, J. (Principal Investigator), **Israel**, M., Milenkovic, L. (Co-Principal Investigators). National Science Foundation, Computer Science for All (\$300,000). *Collaborative Research: Time4CS-ForAll: A Research Practice Partnership*.
- 2021-2023 **Israel**, M. (Principal Investigator). National Science Foundation, Computer Science for All (\$299,624). *UDLACS: Universal Design for Computer Science Learning: Partnership for Inclusive Elementary Computer Science Education*.
- 2020-2023 Asbell-Clarke, J., (Principal Investigator), Weintrop, D., Grover, S., Ke, F., **Israel**, M., & Burke, Q. (co-Principal Investigators). U.S. Department of Education, Office of Elementary & Secondary Education, Education Innovation and Research (EIR; \$3,997,127). *INFACT: Inclusion of Neurodiversity in Foundations and Applications of Computational Thinking*.
- 2020-2021 Yadav, A. (Principal Investigator), **Israel**, M., & Bouck, E. (co-Principal Investigators). National Science Foundation, Early-concept Grants for Exploratory Research (EAGER; \$299,936). *Collaborative Research: Strategies for developing special education preservice teacher competencies in integrated mathematics + computing*.
- 2019-2021 Boyer, K., **Israel**, M. (co-Principal Investigators). National Science Foundation, Improving Undergraduate STEM Education (IUSE; \$87,070). *CUE: Collaborative Research: Effective peer teaching across computing pathways*.
- 2018-2020 M. **Israel** (Principal Investigator), L. Pitt, D. Franklin, A. Isaacs, & A. Binkowski. National Science Foundation, STEM +Computing Partnerships (STEM+C; \$2,489,448).

- Learning Trajectories for Everyday Computing: Integrating Computational Thinking and Elementary Mathematics (LTEC-2).*
- 2018-2021 Education Development Center (EDC), **Israel, M.**, & Research Alliance for New York City Schools. Robin Hood Learning + Technology Fund (\$300,000). *Effective models for integrated computational thinking into New York City elementary schools.*
- 2017-2020 J. Ginger (Principal Investigator), **M. Israel**, & L. Bievenue (Co-Principal Investigators). National Science Foundation Discovery Research K-12 (\$669,253). *Project MAPLE: Makerspaces Promoting Learning and Engagement.*
- 2016-2019 **M. Israel** (Principal Investigator), G. Reese, & C. Heeren (Co-Principal Investigators). National Science Foundation, STEM +Computing Partnerships (STEM+C), Track 2: Research on Education and Broadening Participation (\$599,829). *CS for All: Engaging struggling learners in computer science instruction.*
- 2016-2018 A. Isaacs (Principal Investigator), T. Binkowski, **M. Israel**, Rich, K., & C. Heeran (Co-Principal Investigators). National Science Foundation, STEM +Computing Partnerships (STEM+C), Track 1 (\$1,200,000). *Learning trajectories for Everyday Computing (LTEC).*
- 2016-2017 **M. Israel.** (Principal Investigator). University of Illinois Campus Research Board, Research Support Award (\$15,979). *An investigation of learning, collaborative problem solving, and persistence during computer science instruction for students at risk for academic failure in middle school.*
- 2015 **M. Israel** (Principal Investigator), J. Abelson, T. Newell, W. T. Fu, H. C. Lane, & A. Yajah (Co-Principal Investigators). Illinois Learning Science Design Initiative (ILSDI) Seed Funding Program (\$4000). *Scaffolding STEM expertise through game-based graphically intuitive professional learning experiences.*
- 2014-2016 L. Pitt (Principal Investigator), G. Reese, **M. Israel**, & R. Smith (Co-Principal Investigators). University of Illinois Extension and Outreach Initiative (\$196,000). *4-H computing connections.*
- 2013-2014 **M. Israel** (Principal Investigator). University of Illinois Campus Research Board, Research Support Award (\$6,690). *The effects of epistemic video games on struggling learners' problem solving skills and attitudes about math and science.*
- 2013-2014 **M. Israel** (Principal Investigator). University of Illinois College of Education Faculty Fellowship Grant (\$20,000). *Implementing educational video games with struggling learners to improve STEM learning and self-efficacy: An interdisciplinary mixed methods study.*
- 2010-2014 L. Monda-Amaya (Principal Investigator), J. Halle, S. Dymond, H. Meadan-Kaplansky, & **M. Israel** (Co-Principal Investigators). U.S. Department of Education, Office of Special Education Programs, Leadership Personnel Development (\$1,200,000). *Preparing leaders in special education, access, and data-based decision making in high-need schools.*
- 2011-2012 **M. Israel** (Principal Investigator), J. Basham, & H. Mayer (Co-Principal Investigators) Ohio Board of Regents. STEM Demonstration Research Grant (\$480,000). *Building STEM for all capacity through systematic scaling and evaluation efforts.*

- 2010-2012 J. Basham (Principal Investor), M. **Israel**, & M. Marino (Co-Principal Investigators). Co-Principal Investigator. U.S. Department of Education, Office of Special Education Programs, Technology and Media Services for Individuals with Disability, Steppingstones for Technology Innovation for Children with Disabilities (\$400,000). *Interactive field investigation guide (iFIG): An accessible STEM platform*.
- 2010-2011 M. **Israel** (Principal Investigator). University of Cincinnati Research Council Faculty Research Award (\$8000). *Supporting the instructional practices of early career special educators through remote instructional coaching*.

REFEREED JOURNAL AND CONFERNECE PUBLICATIONS

*Denotes student or postdoc author

Note: I often take last authorship as I mentor students and early career scholars on writing projects.

- *Ma, Y., *Song, Y., *Celepkolu, M., Boyer, K. E., Wiebe, E., Lynch, C. F., & **Israel**, M. (2024). Automatically Detecting Confusion and Conflict During Collaborative Learning Using Linguistic, Prosodic, and Facial Cues. *User Modeling and User-Adapted Interaction*. *arXiv preprint arXiv:2401.15201*.
- Ke, F., *Liu, R., *Sokolikj, Z., Dahlstrom-Hakki, I., & **Israel**, M. (2024). Using eye-tracking in education: review of empirical research and technology. *Educational Technology Research and Development*, 1-36.
- *Tian, X., *Kumar, A., *Solomon, C. E., *Calder, K. D., *Celepkolu, M., *Pezzullo, L., Barrett, J., Boyer, K. E., & **Israel**, M. (2023). AMBY: A Development Environment for Youth to Create Conversational Agents. *International Journal of Child-Computer Interaction*, 38. <https://doi.org/10.1016/j.ijcci.2023.100618>
- Israel**, M., *Li, J., *Yan, W., *Elagha, N. A., Huggins-Manley, C. A., Luo, F., & Franklin, D. (2023, August). How are Elementary Students Demonstrating Understanding of Decomposition within Elementary Mathematics? In *Proceedings of the 2023 ACM Conference on International Computing Education Research-Volume 1* (pp. 222-235).
- *Song, Y., *Tian, X., Barrett, J., **Israel**, M., & Boyer, E. K. (2023). Guide, Safety Net, Project Tester, and More: Investigating the Roles of Facilitators in an Artificial Intelligence Summer Camp. In *Proceedings of 2023 International Conference of the Learning Sciences (ICLS 2023)*.
- *Ma, Y., *Celepkolu, M., Boyer, K. E., Wiebe, E., Lynch, C. F., & **Israel**, M. (2023). How noisy is too noisy? The impact of data noise on multimodal recognition of confusion and conflict during collaborative learning. *Proceedings in the 25th ACM Conference on Multimodal Interaction*.
- *Liu, R., Luo, F., & **Israel**, M. (2023, online). Technology-integrated Computing Instruction in Early Childhood: A Systematic Literature Review. *Journal of Educational Computing Education*. 07356331231170383.
- *Earle-Randell, T. V., *Wiggins, J. B., *Ruiz, J. M., *Celepkolu, M., Boyer, K. E., Lynch, C. F., **Israel**, M., & Wiebe, E. (2023, June). Confusion, conflict, consensus: Modeling dialogue processes during collaborative learning with Hidden Markov Models. In *International Conference on Artificial Intelligence in Education* (pp. 615-626). Cham: Springer Nature Switzerland.
- Strickland, C., *Ramirez-Salgado, A., *Weisberg, L., *Chandler, L., Di Domenico, J., Lehman, E. M., & **Israel**, M. (2023, online). Designing an equity-centered framework and crosswalk for integrated

elementary computer science curriculum and instruction. *Journal of Computer Science Integration*, 6(1). DOI: 10.26716/jcsi.2023.4.17.46

- *Katuka, G. A., *Auguste, Y., *Song, Y., *Tian, X., *Kumar, A., *Celepkolu, M., Boyer, K. E., Barrett, J., **Israel**, M. & McKlin, T. (2023, March). A summer camp experience to engage middle school learners in AI through conversational app development. In *Proceedings of the 54th ACM Technical Symposium on Computer Science Education V. 1* (pp. 813-819). *Best Experience Report Paper Award.
- *Song, Y., *Katuka, G. A., Barrett, J., *Tian, X., *Kumar, A., McKlin, T., *Celepkolu, M., Boyer, K. E., & **Israel**, M. (2023, February). AI Made By Youth: A conversational AI curriculum for middle school summer camps. In *Proceedings of the AAAI Conference on Artificial Intelligence's Thirteenth Symposium on Educational Advances in Artificial Intelligence (EAAI)*.
- *Kumar, A., *Tian, X., *Celepkolu, M., **Israel**, M., & Boyer, K. E. (2022, September). Early design of a conversational AI development platform for middle schoolers. In *2022 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC)* (pp. 1-3). IEEE.
- *Wiggins, J. B., *Earle-Randell, T. V., *Bounajim, D., *Ma, Y., *Ruiz, J. M., *Liu, R., *Celepkolu, M., **Israel**, M., Wiebe, E., Lynch, C.F., & Boyer, K. E. (2022, September). Building the dream team: children's reactions to virtual agents that model collaborative talk. In *Proceedings of the 22nd ACM International Conference on Intelligent Virtual Agents* (pp. 1-8).
- Israel**, M., *Kester, M., *Williams, J., & Ray, M. (2022). Equity and inclusion through UDL in K-6 computer science education: Perspectives of teachers and instructional coaches. *Transactions on Computing Education*, 22(3), 1/22. <https://dl.acm.org/doi/10.1145/3513138>
- *Liu, T., & **Israel**, M., (2022). Uncovering students' problem-solving process in a game-based learning environment. *Computers & Education*. 182, 104462.
- *Luo, F., *Yan, W., *Liu, R., & **Israel**, M. (2022). Elementary students' understanding of variables in computational thinking-integrated instruction: A mixed methods study. In *Proceedings of the 53rd ACM Technical Symposium on Computer Science Education* (pp. 523-529).
- Yadav, A., **Israel**, M., Bouck, E., *Cobo, A., & *Samuals, J. (2022). Achieving CSforAll: Preparing special education teachers to bring computing to students with disabilities. In *Proceedings of the 53rd ACM Technical Symposium on Computer Science Education* (pp.196-201).
- *Luo, F., **Israel**, M., & Gane, B. (2022). Elementary computational thinking instruction and assessment: A learning trajectory perspective. *ACM Transactions on Computing Education*, 22(2), 1-26.
- Israel**, M., *Liu, R., *Yan, W., Sherwood, H., Martin, W., Fancseli, C., ... & Adair, A. (2022). Understanding barriers to school-wide computational thinking integration at the elementary grades: Lessons from three schools. In *Computational Thinking in PreK-5: Empirical Evidence for Integration and Future Directions* (pp. 64-71). Association of Computing Machinery (ACM), New York, NY.
- Strickland, C., *Rich, K. M., Eater, D., *Lash, T., Isaacs, A., **Israel**, M., & Franklin, D. (2021). Action fractions: The design and pilot of an integrated math+ CS elementary curriculum based on learning trajectories. In *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education* (pp. 1149-1155).

- Sherwood, H., *Yan, W., *Liu, R., Martin, W., Adair, A., Fancsali, C., ... & **Israel, M.** (2021). Diverse Approaches to School-wide Computational Thinking Integration at the Elementary Grades: A Cross-case Analysis. In *Proceedings of the 52nd ACM Technical Symposium on Computer Science Education* (pp. 253-259).
- Gane, B., **Israel, M.**, *Elagha, N., *Yan, W., & Pellegrino, J. (2021). Design and validation of learning-trajectory based assessments for computational thinking in upper elementary grades. *Computer Science Education*, 1-25.
- Ke, F., *Liu, R., *Sokolikj, Z., Dahlstrom-Hakki, I., & **Israel, M.** (2021). Using Eye Tracking for Research on Learning and Computational Thinking. In *International Conference on Human-Computer Interaction* (pp. 216-228). Springer.
- Israel, M.**, *Liu, T., *Moon, J., Ke, F., & Dahlstrom-Hakki, I. (2021). Methodological considerations for understanding students' problem-solving processes and affective trajectories during game-based learning: A data fusion approach. In *International Conference on Human-Computer Interaction* (pp. 201-215). Springer.
- *Liu, R., *Luo, F., & **Israel, M.** (2021). What Do We Know about Assessing Computational Thinking? A New Methodological Perspective from the Literature. In *Proceedings of the 26th ACM Conference on Innovation and Technology in Computer Science Education V. 1* (pp. 269-275).
- Israel, M.**, *Chung, M. Y., *Wherfel, Q. M., & *Shehab, S. (2020). A descriptive analysis of academic engagement and collaboration of students with autism during elementary computer science. *Computer Science Education*, 30(4), 444-468.
- Israel, M.**, *Jeong, G., Ray, M., and *Lash, T. (2020). Teaching elementary computer science through Universal Design for Learning. *Proceedings of the 51st Association for Computing Machinery (ACM) Technical Symposium on Computer Science Education* (pp. 1220-1226).
- *Luo, F., **Israel, M.**, *Liu, R., *Yan, W., Gane, B., and *Hampton, J. (2020). Understanding students' computational thinking through cognitive interviews: A learning trajectory-based analysis. *Proceedings of the 51st Association for Computing Machinery (ACM) Technical Symposium on Computer Science Education* (pp. 919-925).
- Israel, M.**, & *Lash, T. A. (2020). From classroom lessons to learning trajectories: Mathematics + computational thinking. *Interactive Learning Environments*, 1-21.
- Israel, M.**, Ray, M. J., *Maa, W. C., *Jeong, G., *Lee, C., *Lash, T., & *Do, V. (2018). School embedded and district-wide instructional coaching in K-8 computer science: Implications for including students with disabilities. *Journal of Technology and Teacher Education*, 26(3), 471-501.
- Ray, M., **Israel, M.**, *Lee, C., & *Do, V. (2018). A cross-case analysis of instructional strategies to support participation of K-8 students with disabilities in CS for All. *Proceedings of the 49th Association for Computing Machinery (ACM) Technical Symposium on Computer Science Education* (900-905). ACM.
- Israel, M.**, *Shehab, S., *Wherfel, Q., *Melvin, O., & *Lash, T. (2017). Describing elementary students' interactions in K-5 puzzle-based computer science environments using the Collaborative Computing Observation Instrument (C-COI). In *Proceedings of the 2017 ACM Conference on International Computing Education Research* (pp. 110-117). ACM.

- Israel, M., & Ray, M.** (2017). Practical strategies for including students with learning and cognitive disabilities in K-8 computer science, *CSTA Voice*, 13(3), 6-7.
- Israel, M., *Wherfel, Q., *Shehab, S., *Ramos, E., *Metzger, A., & Reese, G.** (2016). Assessing collaborative computing: Development of the Collaborative-Computing Observation Instrument (C-COI). *Computer Science Education*, 26(2-3), 208-233.
- Ladner, R., & **Israel, M.** (2016). "For all" in "computer science for all". *Communications of the ACM*, 59(9), 26-28.
- *Snodgrass, M. R., **Israel, M.** & Reese, G. (2016). Instructional supports for students with disabilities in K-5 computing: Findings from a cross-case analysis. *Computers & Education*. 100, 1-17.
- Israel, M., *Wang, S., & Marino, M. T.** (2015). A multilevel analysis of diverse learners playing life science video games: Interactions between gaming content, learning disability status, reading proficiency, and gender. *Journal of Research in Science Teaching*, 53(2), 324-345.
- Israel, M., *Wherfel, Q., *Pearson, J., *Shehab, S., & *Tapia, T.** (2015). Empowering K-12 students with disabilities to learn computational thinking and computer programming. *TEACHING Exceptional Children*, 48(1), 45-53.
- Israel, M., *Pearson, J., *Tapia, T., *Wherfel, Q., & Reese, G.** (2015). Supporting all learners in school-wide computational thinking: A cross case analysis. *Computers & Education*, 82, 263-279. DOI: 10.1016/j.compedu.2014.11.022
- Israel, M.** (2015). Supporting collaborative interactions during computing in K-5 classrooms. In E. Mercier (chair). Researching and Designing for the Orchestration of Learning in the CSCL classroom. *Proceedings of the 11th International Conference on Computer Supported Collaborative Learning* (pp. 599-606). Gothenburg, Sweden: International Society of the Learning Sciences
- Israel, M., Kamman, M., McCray, E., & Sindelar, P.** (2014). Mentoring in action: The interplay between professional assistance, emotional support, and teacher evaluation. *Exceptional Children*, 81(1), 45-63.
- Marino, M. T., Gotch, C. M., **Israel, M.**, Vasquez, E., & Basham, J. (2014). UDL in the middle school science classroom: Can video games and alternate text heighten engagement and learning for students with learning disabilities? *Learning Disabilities Quarterly*, 37(2), 87-99.
- Israel, M., Marino, M., Basham, J., & *Spivak, W.** (2013). 5th graders as app designers: How diverse learners conceptualize educational apps. *Journal of Research on Technology in Education*, 46(1), 53-80.
- Israel, M., Carnahan, C., *Snyder, K., & Williamson, P.** (2013). Supporting the induction of teachers of students with autism spectrum disorders through virtual coaching: A conceptual framework. *Remedial and Special Education*, 34(4), 195-204. DOI: 10.1177/0741932512450517.
- Marino, M. T., **Israel, M.**, *Beecher, C. C., & Basham, J. D. (2013). Students' and teachers' perceptions of using video games to enhance science instruction. *Journal of Science Education and Technology*, 22(5), 667-680.
- Israel, M., *Maynard, K., & Williamson, P.** (2013). Promoting literacy-embedded authentic STEM instruction for students with disabilities and other struggling learners. *TEACHING Exceptional Children (Special STEM Issue)*, 45(4), 18-25.

- Carnahan, C. R., Williamson, P., *Hollingshead, A., & **Israel, M.** (2012). Using technology to support balanced literacy for students with significant disabilities. *TEACHING Exceptional Children, 45(1)*, 20-29.
- Israel, M.**, & Moshirnia, A. V. (2012). Interacting and learning together: Factors influencing preservice teachers' perceptions of academic wikis. *Journal of Technology and Teacher Education, 20(2)*, 151-176.
- Billingsley, B. B., **Israel, M.**, & Smith, S. J. (2011). Supporting new teachers: How web resources & Web 2.0 technologies can help. *TEACHING Exceptional Children, 43(5)*, 20-29.
- Basham, J. D., **Israel, M.**, Graden, J., Poth, R., & Winston, M. (2010). A comprehensive approach to RtI: Embedding Universal Design for Learning and Technology. *Learning Disabilities Quarterly, 33*, 243-255.
- Basham, J. D., **Israel, M.**, & *Maynard, K. (2010). Developing an ecological model for STEM education: Operationalizing STEM for all. *Journal of Special Education Technology, 25(3)*, 9-19.
- Moshirnia, A. V., & **Israel, M.** (2010) The impact of distinct information delivery systems in modified video games on student learning. *Journal of Interactive Learning Research, 21(3)*, 383-405.
- Smith, S. J., & **Israel, M.** (2010). E-mentoring: Enhancing special education teacher induction. *Journal of Special Education Leadership, 23(1)*, 30-40.
- Israel, M.**, Knowlton, E., Griswold, D., & Rowland, A. (2009). Applications of video conferencing technology in special education teacher preparation. *Journal of Special Education Technology, 24(1)*, 15-25.
- Moshirnia, A. & **Israel, M.** (2009). Taking the message out of the bottle: An information-rich spatial message board and outlining tool. *Proceedings of World Conference on E-Learning in Corporate, Government, Healthcare, and Higher Education 2009* (pp. 1827-1835). Chesapeake, VA: AACE.
- Israel, M.**, Moshirnia, A. V., & Anderson, S. (2008). Case-based authentic assessment applications within wikis. *Proceedings of the World Conference on Educational Multimedia, Hypermedia, and Telecommunications (Ed-Media)*. (p. 2608-2617). Chesapeake, VA: AACE.
- Israel, M.**, Pattison, J., Moshirnia, A. V., & Newton, J. (2008). Supporting novice special educators through e-mentoring. *Proceedings of the Society of Information Technology & Teacher Education International Conference*. (p. 5101-5108). Chesapeake, VA: AACE.
- Moshirnia, A. V., & **Israel, M.** (2008). The use of graphic organizers within e-mentoring wikis. *Proceedings of the Society of Information Technology & Teacher Education International Conference*. (p. 3091-3096). Chesapeake, VA: AACE.
- Israel, M.**, & Harms, M. (2008). Innovative uses of video conferencing: Reducing the observer effect student behaviors. *Proceedings of the Society of Information Technology & Teacher Education International Conference*. (p. 5098-5100). Chesapeake, VA: AACE.
- Knowlton, E., **Israel, M.**, & Griswold, G. (2007). Effects of interactive video conferencing on teacher education students' knowledge of special education. *Proceedings of Society for Information Technology and Teacher Education International Conference*. (p. 3619-3626). Chesapeake, VA: AACE.

BOOKS and BOOK CHAPTERS

- McCray, E. D., Kamman, M. L., **Israel**, M., Crews, E., & Harvey, A. N. (in press). Beyond “hand in there”: A qualitative examination of how inclusive principals support beginning special education teachers. In S. Moss & R. R Justice-Emenuga (eds.) *Inclusive Leadership: From Theory to Practice* (v. 2). *Contemporary Perspectives on Supervision and Instructional Leadership*.
- Kumar, S., Dawson, K., Ritzhaupt, A.D., **Israel**, M., Antonenko, P., & Taberski, R. (2023). Designing research curriculum to connect theory, research, and practice in an online professional doctorate. In Benedetti, C., & Covarrubias, A. (Eds.). (2023). *Teaching Critical Inquiry and Applied Research: Moving Beyond Traditional Methods*. Stylus Publishing, LLC.
- Israel**, M., *Chandler, L., *Cobo, A., & *Weisberg, L. (2023). Increasing access, participation, and inclusion within K-12 CS education through Universal Design for Learning and High Leverage Practices. In C. Schulte, E. Barendsen, S. N. Howard Sentence (Eds.), *Computer science education: Perspectives on Teaching and Learning in School* (2nd ed.). Bloomsbury Publishing.
- Israel**, M., & *Williams, J. (2022). Using assistive and instructional technologies. In J. McLuskey, L, Maheady, B. Billingsley, M. Brownell, & T. Lewis (Eds.) *High Leverage Practices for Inclusive Classrooms. Second Edition*. Routledge Publishing.
- Israel**, M. (2021). Equity principles for including learners with disabilities in K-12 CS education. In Understanding Computing Education (Vol 2): Equity, Diversity and Inclusion. Proceedings of the Raspberry Pi Foundation Research Seminars.
- Israel**, M., Marino, *Yan, W., & *Samuels, H. (2022). Using technology to support effective inclusive elementary schools. In J. McLeskey, F. Spooner, B. Algozzien, & N. L. Waldron (Eds). *Handbook of Effective Inclusive Elementary Schools: Research and Practice (2nd Edition)*. Routlage.
- Israel**, M., & *Lash, T. (with contributions from Yan, W., Liu, R., & Luo, R). (2020). Universal Design for Learning in K-12 Programming. In S. Grover (Ed). *Computer Science in K-12: An A to Z Handbook on Teaching Programming*. (219-226). Palo Alto, CA: Edfinity.
- Israel**, M. (2019). Using assistive and instructional technologies. In J. McLuskey, L, Maheady, B. Billingsley, M. Brownell, & T. Lewis (Eds.) *High Leverage Practices for Inclusive Classrooms* (264-278). Routledge Publishing.
- Marino, M. T., **Israel**, M., Vasquez, E. Fisher, K. M., & Gallegos, B. (2019). Teaching and learning with technology. In A.S. Canestrari, & B.A. Marlowe (Eds.) *The handbook of educational foundations: International perspectives* (245-260). New York, NY: Wiley-Blackwell.
- Israel**, M., *Shehab, S., & *Wherfel, Q. (2018). Increasing science learning and engagement for academically diverse students through scaffolded scientific inquiry and Universal Design for Learning. In M. Koomen, S. Kahn, C. Atchinson, & T. Wild (Eds.). *Towards inclusion of all learners in science teacher education* (pp. 201-211). Sense Publishing.
- National Framework Writing team including **Israel**, M. (2017). The role of research in the development and future of the Framework in *K-12 Computer Science Framework*, led by the Association of Computing Machinery, Code.org, Computer Science Teachers Association, Cyber Innovation Center, and National Math and Science Initiative. Retrieved from <http://www.k12cs.org>.

Writing team including **Israel, M.** (2017). Practices including Computational Thinking in *K-12 Computer Science Framework*, led by the Association of Computing Machinery, Code.org, Computer Science Teachers Association, Cyber Innovation Center, and National Math and Science Initiative. Retrieved from <http://www.k12cs.org>.

Klingner, J., Brownell, M., Mason, L. H., Sindelar, P. T., Benedict, A., Griffin, C., Lane, K., **Israel, M.**, Oakes, W., Menzies, H. M., Germer, K., & Park, Y. (2016). Teaching students with special needs in the new millennium. In D. H. Gitomer & C.A. Bell (Eds.) *Handbook of Research on Teaching, 5th Edition*. American Educational Research Association.

Billingsley, B. B., Brownell, M., **Israel, M.**, & Kamman, M. (2013). *The Beginning Special Education Teacher's Survival Guide*. Jossey-Bass.

Israel, M., Smith, J. J., & Billingsley, B. B. (2012). E-mentoring new special educators through educational partnerships in Ohio. In B. Ludlow & B. Collins (Eds.), *Online in real time: Using Web 2.0 for distance education in rural special education*. Billings, MT: American Council on Rural Special Education.

Basham, J. D., Koehler, C., & **Israel, M.** (2011). Creating a STEM for All Environment (pp.1-24). In C. Johnson (Ed), *Secondary STEM Educational Reform Secondary STEM Educational Reform*. New York: Palgrave Publishers.

TRANSLATION OF RESEARCH TO PRACTICE PAPERS AND REPORTS

Fancsali, C., & **Israel, M.** (2021). To what extent are students with disabilities included in K-12 computer science education? in *Spotlight on NYC Schools*. Research Alliance for New York City Schools. Retrieved from <https://steinhardt.nyu.edu/research-alliance/research/what-extent-are-students-disabilities-included-k-12-computer-science>

Israel, M., Dey, S., Dimitriadi, Y., Feldner, H., Isvik, A., Kuriakos, N., Salac, J., Huh, M., & India, G. (2021). *Reimagining accessibility and inclusion in K-12 computer science education through curriculum and professional development*. Microsoft Research Accessible Computer Science Education Report. <https://www.microsoft.com/en-us/research/event/accessible-cs-education-fall-workshop/#!breakout-group-reports>

Sherwood, H., Fancsali, C., **Israel, M.**, Diamond, J., & Moeller, B. (2020). *Framework for Effective Computational Thinking Integration in Elementary (K-5) Schools*. New York, NY: EDC Center for Children and Technology.

Israel, M., *Lash, T., *Yan, W., *Luo, F., & *Liu, R. (2020). *Collaborative Computing Observation Instrument Research Manual*. Creative Technology Research Lab.

*Jeong, G., *Lash, T. A., & **Israel, M.** (2018). *Scaffolded Project planning during K-12 CS education*. Project TACTIC: Teaching All Computational Thinking through Inclusion and Collaboration. Retrieved from the University of Illinois, Creative Technology Research Lab.

*Lash, T. A., **Israel, M.**, & *Jeong, G. (2018). *Meeting the needs of all learners in K-12 computer science education through co-planning and co-teaching*. Project TACTIC: Teaching All Computational Thinking through Inclusion and Collaboration. Retrieved from the University of Illinois, Creative Technology Research Lab.

- Israel, M., *Lash, T. A., & *Jeong, G. (2017).** *Utilizing the Universal Design for Learning Framework in K-12 computer science education.* Project TACTIC: Teaching All Computational Thinking through Inclusion and Collaboration. Retrieved from the University of Illinois, Creative Technology Research Lab.
- *Lash, T. A. , *Wherfel, Q., *Jeong, G., & **Israel, M. (2017).** *Strategies for paraeducators during K-12 computer science instruction.* Project TACTIC: Teaching All Computational Thinking through Inclusion and Collaboration. Retrieved from the University of Illinois, Creative Technology Research Lab.
- *Lash, T. A., *Jeong, G., *Wherfel, Q., & **Israel, M. (2017).** *Strategies for peer collaboration during K-12 computer science instruction.* Project TACTIC: Teaching All Computational Thinking through Inclusion and Collaboration. Retrieved from the University of Illinois, Creative Technology Research Lab.
- Israel, M., Marino, M., *Delisio, L., & *Serianni, B. (2014).** *Innovation configuration on supporting content learning through technology for K-12 students with disabilities.* Collaboration for Effective Educator Development, Accountability, and Reform (CEEDAR Center), University of Florida. <http://cedar.education.ufl.edu>
- Israel, M., *Ribuffo, C., & Smith, S. (2014).** *Universal Design for Learning innovation configuration: Recommendations for preservice teacher preparation and inservice professional development.* Collaboration for Effective Educator Development, Accountability, and Reform (CEEDAR Center), University of Florida. <http://cedar.education.ufl.edu>
- Kamman, M., Zimmerman, K., **Israel, M.**, McCray, E., Brownell, M., Sindelar, P., Heretick, J., Rice, S., & Bae, J. (2013). *District induction manual: Supporting beginning special educators.* University of Florida, National Center to Inform Policy and Practice in Special Education Professional Development. <http://www.ncipp.org>.
- Kamman, M., Zimmerman, K., **Israel, M.**, McCray, E., Brownell, M., Sindelar, P., Heretick, J., Rice, S., & Bae, J. (2013). *Mentor handbook: A handbook for mentors of beginning special education teachers.* University of Florida, National Center to Inform Policy and Practice in Special Education Professional Development. <http://www.ncipp.org>.
- Billingsley, B., Griffin, C., Smith, S.J., Kamman, M., & **Israel, M. (2009).** A Review of Teacher Induction in Special Education: Research, Practice, and Technology Solutions. Monograph prepared for the National Center to Inform Policy and Practice in Special Education Professional Development (NCIPP), The University of Florida. <http://www.ncipp.org>.

NEWSLETTERS AND MEDIA

- Israel, M. (November, 2021).** *At UF, we are working together to provide Florida teachers and students with computer science skills.* Op-Ed Column. Tampa Bay Times. <https://www.tampabay.com/opinion/2021/11/26/at-uf-we-are-working-together-to-provide-florida-teachers-and-students-with-computer-science-skills-column/>

- Boyer, K., **Israel**, M., Barrett, J., & *Katuka, G., (May, 2021). Fostering computer science and AI learning through youth-led conversational app development. <https://stemforall2022.videohall.com/presentations/2411>
- Strickland, C., Century, J., **Israel**, M., Lehman, L., & Milenkovic, L. (May, 2021). Elementary science + CS with Project Based Learning, Universal Design for Learning, and Culturally Responsive Pedagogy. 2021 STEM for All Video Showcase. <https://stemforall2022.videohall.com/presentations/2326>
- Israel**, M., Franklin, D., Gane, B., & Strickland, C. (May, 2020). Learning Trajectories for Everyday Computing. 2020 STEM for All Video Showcase. The video we created won the public choice award. <https://stemforall2020.videohall.com/presentations/1785>
- Woodard, J., DeLyser, L., & Israel, M. (2019). *It's about the all: The role of including students with learning disabilities in computer science education*. CS for All Consortium. Retrieved from: <https://medium.com/@CSforALL/its-about-the-all-the-role-of-including-students-with-learning-disabilities-in-computer-science-4267282cc141>.
- CS for All Accessibility Pledge Task Force (including **Israel**, M). (October, 2018). CS for All Accessibility Pledge Launch. <https://www.csforall.org/accessibility/>
- Marghitu, D., **Israel**, M., Ladner, R., Lash, T., & Stefik, A. (August, 2018). Our bold call to action-- #CSforALL must include students with disabilities, and it needs to happen now. <https://medium.com/csforall-stories/our-bold-call-to-action-csforall-must-include-students-with-disabilities-and-it-needs-to-happen-fc2224cd902>
- Israel**, M., & Lash, T. (May, 2018). Project TACTIC: Teaching all computational thinking through inclusion and collaboration: Including students with disabilities in CS education. *NSF STEM Video Showcase: Transforming the Educational Landscape*. <http://stemforall2018.videohall.com/presentations/1169>
- Israel**, M., Franklin, D., & Strickland, C. (May, 2018). Learning trajectories for everyday computing: Integrating computational thinking in elementary mathematics. <http://stemforall2018.videohall.com/presentations/1131>
- Isaacs, A., **Israel**, M., & Reese, G. (May, 2016). Learning trajectories for everyday computing (LTEC). *NSF STEM Video Showcase: Advancing STEM Learning for All*. Video received two honors (Facilitator choice and public choice awards) <http://stemforall2016.videohall.com/presentations/691>
- Israel**, M. (March, 2016). Computer Science for All: Safeguarding Participation of Students with Disabilities. *TAM Connector Newsletter*. Technology and Media Division (TAM) of the Council for Exceptional Children.
- Israel**, M. (January, 2016). Computer science for (almost) all: What do we mean by computer science for all? *Code.org Teacher Community Blog*. <http://teacherblog.code.org/post/138552877869/what-do-we-mean-by-computer-science-for-all>
- Israel**, M. (August, 2015). Education legislation is on the move. *TAM Connector Newsletter*. Technology and Media Division (TAM) of the Council for Exceptional Children.

SOFTWARE

Creative Technology Research Lab (2022). Collaborative Computing Observation Instrument (C-COI 3rd Ed.). <https://ccoeducation.ufl.edu/>

NATIONAL AND INTERNATIONAL PRESENTATIONS

Israel, M. (2023, December). Invited talk: Utilizing the Universal Design for Learning framework in computational thinking teaching and learning. Mahidol University, Bangkok, Thailand.

Barrett, J., & **Israel, M.** (2023, September). Scaffolding Block Coding Through Multiple Entry Points. In *Proceedings of the 18th WiPSCE Conference on Primary and Secondary Computing Education Research* (pp. 1-2), Cambridge, England.

Israel, M. (2023, July). Invited Keynote Presentation: UDL4CS: Including all learners in K-12 CS Education. *The Computer Science Teachers Association Annual Conference*, Virtual.

*Ramirez-Salgado, A., **Israel, M.**, Strickland, C. (2023, July). Adding UDL and CRP to project-based instruction. *The Computer Science Teachers Association Annual Conference*, Virtual.

Israel, M., Barrett, J., & Thomas, D. K., (2023, July). CS Inclusion: Strategies for including students with dis/Abilities in K-12 CS education. *The Computer Science Teachers Association Annual Conference*, Virtual.

Israel, M., *Cobo, A., *Chandler, L., *Ramirez-Salgado, A., *Weisberg, L., & Grover, S., (2023, April). Scaffolding through multiple entry points to K-8 computer science participation and inclusion. Poster in structured poster session Design principles for creating accessible and inclusive introductory computing experiences. *The 2023 American Educational Research Association (AERA) National Meeting*, Chicago, IL.

Israel, M. (2023, April). What can teachers do better to support students with disabilities? In Symposium Co-constructed systemic support for sustaining humanizing and inclusive computer science teacher education. *The 2023 American Educational Research Association (AERA) National Meeting*, Chicago, IL.

*Chandler, L., *Weisberg, L., **Israel, M.**, & Strickland, C. (2023, April). The development of an equity-centered curricular crosswalk for K-12 computer science education. Paper session in Equity in Computer Science and Engineering Education. *The 2023 American Educational Research Association (AERA) National Meeting*, Chicago, IL.

*Liu, R., & **Israel, M.** (2023, April). Elementary school teachers' change in computational thinking understanding and instruction following professional development. *The 2023 American Educational Research Association (AERA) National Meeting*, Chicago, IL.

*Liu, R., **Israel, M.**, & *Yan, W. (2023, April). The current landscape of computing education in elementary settings: A systematic literature review. *The 2023 American Educational Research Association (AERA) National Meeting*, Chicago, IL.

Israel, M., Barrett, J., McKlin, T., *Song, Y., *Tian, X. (2023, April). Learning artificial intelligence through youth-led conversational app development experiences. Symposium: The multiple dimensions of equity: Exploring a computer science for all initiative through different lenses. *The 2023 American Educational Research Association (AERA) National Meeting*, Chicago, IL.

- Israel, M., Li, W., Fancseli, C., *Bennett, A., (2023, April)** Participation of students with disabilities in K-12 computer science education. *The 2023 American Educational Research Association (AERA) National Meeting, Chicago, IL.*
- *Bennett, A., & **Israel, M.** (2023, March). Preservice teachers implementing Universal Design for Learning and Accessibility in Computer Science Education. Keynote at *The 2023 Universal Design for Learning Implementation and Research Network (UDL-IRN) International Summit, Orlando, FL.*
- *Weisberg, L., *Chandler, L., & **Israel, M.** (2023, March). Accessible and engaging project-based learning with Universal Design for Learning and Culturally Responsive Pedagogy. *The 2023 Universal Design for Learning Implementation and Research Network (UDL-IRN) International Summit, Orlando, FL.*
- *Bennett, A., **Israel, M.**, *Cobo, A., & *Delgado, J., (2023, March). Using the UDL for Computer Science Interactive Table. *The 2023 Universal Design for Learning Implementation and Research Network (UDL-IRN) International Summit, Orlando, FL.*
- Israel, M., & Barrett, J.** (2023, February). *AI summer camp professional development focused on Universal Design for Learning and Culturally Responsive Pedagogy.* Inclusive and Diverse K-12 AI Literacy Stakeholder Workshop, at the 13th Symposium on Educational Advances in Artificial Intelligence (EAAI), Washington, D.C.
- *Kumar, A., *Tian, X., *Celepkolu, M., **Israel, M.**, & Boyer, K. E. (2022, September). Early Design of a Conversational AI Development Platform for Middle Schoolers. In *2022 IEEE Symposium on Visual Languages and Human-Centric Computing (VL/HCC)* (pp. 1-3). IEEE.
- Israel, M.** (August, 2022). *Unpacking access and inclusion in K-12 CS education: Inclusive mindsets and pedagogical practices.* Invited keynote. National Center for Women in Information Technology (NCWIT) Conversations for Change, Virtual.
- Israel, M.**, *Bennet, A., *Cobo, A., & Barrett, J. (July, 2022). *Disability inclusion in CSforAll.* Computer Science Teachers Association Annual Conference, Chicago, IL.
- Israel, M.**, *Weisberg, L., *Chandler, L., & Strickland, C. (July, 2022). *Reducing barriers to K-12 CS Participation through UDL and CRP.* Computer Science Teachers Association Annual Conference, Chicago, IL.
- Israel, M.**, Bergeron, L., Cox, B., Milenkovic, L., & Bennett, A. (May, 2022). *K-8 Inclusive Computer Science Education Stories: Lessons from a research practice partnership.* RESPECT 2022: The Conference on Research in Equity and Sustained Participation in Engineering, Computing, and Technology, Philadelphia, PA.
- Israel, M.**, & *Yan, W. (April, 2022). *Developing scaffolding debugging strategies to support metacognition during programming.* Panel session at the American Educational Research Association (AERA) national meeting, San Diego, CA.
- *Liu, R., *Luo, F., & **Israel, M.** (April, 2022). *Technology-integrated computing education in early childhood: A systematic review of the literature.* Paper session at the American Educational Research Association (AERA) national meeting, San Diego, CA
- Strickland, C., & **Israel, M.**, (February, 2022). *Integration through an inclusive lens.* CS Across the Curriculum Summit, Virtual. Computer Science Teachers Association.

- Israel, M., Ray, M., Strickland, C.** (2021, July). *Applying the CSTA Equity Standards in K-12 CS Education*. Virtual Computer Science Teachers Association (CSTA) Annual Conference.
- Twarek, B., Freeman, C., Friend, M., **Israel, M.**, Mora, L., & Ray, M. (May, 2021). *Infusing equity and inclusion in K-12 computer science teacher development*. RESPECT 2021: IEEE STCBP Conference for Research on Equity and Sustained Participation in Engineering, Computing, and Technology, Virtual.
- Grover, S., Denner, J., Thomas, J., Fields, D., & **Israel, M.** (May, 2021). *Learner-centered pedagogies for equity and inclusion in K-12 introductory programming*. RESPECT 2021: IEEE STCBP Conference for Research on Equity and Sustained Participation in Engineering, Computing, and Technology, Virtual.
- Israel, M.**, *Williams, J., *Kester, B., & Ray, M. (April, 2021). *Equity and inclusion through Universal Design for Learning in K-6 computer science education: Perspectives of teachers and instructional coaches*. Paper session at the American Educational Research Association (AERA) national meeting, Virtual.
- Israel, M.**, *Yan, W., Thomas, D. K. (April, 2021). *The role of special education teachers in promoting access to computer science education: BrowardCODES-for-All*. Structured poster session at the American Educational Research Association (AERA) national meeting, Virtual.
- *Luo, F., & **Israel, M.** (April, 2021). *Exploring elementary students' computational thinking in math: Findings and implementations for instruction and assessment*. Paper session at the American Educational Research Association (AERA) national meeting, Virtual.
- Israel, M.**, *Yan, W., *Liu, R., Martinez, M., Sherwood, H., Adair, A., Martin, W., & Rivera-Cash, E. (April, 2021). *School-wide integration models of computational thinking in elementary schools: A cross case analysis*. Paper session at the American Educational Research Association (AERA) national meeting, Virtual.
- Israel, M.**, *Liu, T. (April, 2021). *Detecting learners' frustration based on their performance in game-based learning activities*. Paper session at the American Educational Research Association (AERA) national meeting, Virtual.
- *Cobo, A., **Israel, M.**, & Lash, T. (March, 2021). *Strategies for using Universal Design for Learning in K-8 CS*. Computer Science Teachers Association Equity in Action Summit. Virtual conference.
- Israel, M. (October, 2020). *Countering pedagogy for the "privileged" in CS for All: A Universal Design for Learning theoretical and practical lens for addressing the needs of students with disabilities in K-8 CS education*. Invited keynote. ACM WiPCSE: Workshop in Primary and Secondary Computing Education. ACM Virtual Conference.
- Vaval, L., & **Israel, M.** (October, 2020). *Accessibility and Universal Design for Learning in elementary computer science education: Initiatives and resources from the field*. Invited presentation. Wonder Workshop International STEAM Virtual Summit.
- *Samuel, N. O., **Israel, M.**, *Arnett, H., Bievenue, L., Ginger, J., & Perry, M. (2020). Understanding instructional challenges and approaches to including middle school students with disabilities in makerspace activities: A cross-case analysis. *FabLearn 2020*.

- Marsland, W., **Israel**, M., & *Lash, T. (July, 2020). *Strategies for Using Universal Design for Learning in K-5 Computer Science*. Computer Science Teachers Association (CSTA) 2020 Virtual Conference.
- Brennan, K., **Israel**, M., Barbot, H., & Patel, A. (May, 2020). *Computational thinking in pre-kindergarten through fifth grades: Defining computational thinking, state of the evidence, and promising practices*. Invited Panel. National Academies of Sciences, Engineering, and Medicine meeting on Enhancing Science and Engineering in Prekindergarten through Fifth Grades.
- *Liu, R., *Luo, F., & **Israel**, M. (March, 2020). *Video analysis of student challenges and interactions in computational thinking-integrated botany*. In *Proceedings of the 51st ACM Technical Symposium on Computer Science Education* (pp. 1299). ACM. (Conference cancelled)
- *Yan, W., *Liu, R., **Israel**, M., Sherwood, H., Fancsali, C., & Pierce, M. (March, 2020). *School-wide integration of computational thinking into elementary schools: A cross-case study*. In *Proceedings of the 51st ACM Technical Symposium on Computer Science Education* (pp. ##). ACM. (Conference cancelled)
- Israel**, M. (February, 2020). *Meaningful inclusion of K-12 students with disabilities in computer science education*. Invited presentation. Council for Exceptional Children Conference, Portland, OR.
- Nagro, S., **Israel**, M., Kennedy, M., & Rock, M. (February, 2020). *Four unique approaches to innovative technologies in teacher preparation*. Panel presentation at the Council for Exceptional Children Annual Conference, Portland, OR.
- Israel**, M. (May, 2019). *Meaningful inclusion of all students in computer science education through the Universal Design for Learning (UDL) Framework*. Invited presentation. Annual summit of the National Center for Women & Information Technology (NCWIT), Nashville, TN.
- McCray, E., **Israel**, M., & Kamman, M. (April, 2019). *The role of leadership in supporting teachers and improving climate*. Paper session at the American Educational Research Association (AERA) national meeting, Toronto, Canada.
- Israel**, M. (March, 2019). *Implementation of UDL in elementary and middle school computer science education*. Invited keynote. Annual conference of the Universal Design for Learning Implementation and Research Network, Orlando, FL.
- Israel**, M., Hafeez, S., Schanzer, E., Dovi, R., Koslow, E., & Lash, T. (February, 2019). Panel: Making K-12 CS Education Accessibility a Norm, not an Exception. In *Proceedings of the 50th ACM Technical Symposium on Computer Science Education* (pp. 1232-1233). ACM.
- Israel**, M., & *Lash, T. (January, 2019). *Accessibility and inclusion in K-12 computer science education: Meeting the needs of students with disabilities in the CS for All movement*. Invited presentation. ADA National Network & the Great Lakes ADA Center.
- Israel**, M. (November, 2018). *Teaching computer science to young learners in gamified environments: Implications for supporting struggling learners*. Invited presentation. Media Education Summit: Inclusive Worlds of Games; Clash of Realities. Cologne, Germany.
- Israel**, M. (November, 2018). *Research Spotlight Session: Pedagogical approaches for including students with disabilities in Computer Science for All (CS for All)*. Presentation at the Teacher Education Division of the Council for Exceptional Children Annual Meeting. Las Vegas, NV.

- Israel, M., & *Jeong, G.** (November, 2018). *Comparison of school-embedded and district-wide coaching in K-8 computer science: Implications for including students with disabilities*. Presentation at the Teacher Education Division of the Council for Exceptional Children Annual Meeting, Las Vegas, NV.
- Boyce, M., Ladner, R., **Israel, M., & *Lash, T.** (October, 2018). *CS for All Accessibility Pledge*. CS for All Summit. Detroit, MI.
- Israel, M., *Lash, T., & *Maa, W.** (July, 2018). *Strategies for assistive struggling learners in elementary CS classrooms*. Computer Science Teachers Association (CSTA) Annual Meeting. Omaha, NE.
- Israel, M. & Diaz, L.** (May, 2018). *State-level initiatives to address diversity in CS*. Infosys Foundation USA CrossRoads meeting. Scotts Valley, CA.
- Israel, M., *Lash, T., Bergeron, L., & Ray, M.** (April, 2018). *Planning K-8 computer science instruction through the UDL Framework*. Universal Design for Learning Implementation and Research Network National Conference. Orlando, FL.
- *Lash, T., & **Israel, M.** (February, 2018). *Bridging the research to practice gap with Project TACTIC Briefs*. Technical Symposium on Computer Science Education, Association for Computing Machinery Special Interest Group for Computer Science Education National Conference (SIGCSE), Baltimore, MD.
- Israel, M., & *Lash, T.** (February, 2018). *Everyday computing: Integrating computational thinking into elementary mathematics*. Technical Symposium on Computer Science Education, Association for Computing Machinery Special Interest Group for Computer Science Education National Conference (SIGCSE), Baltimore, MD.
- Israel, M.** (November, 2017). *Universal Design for Learning: Strategies for teaching students of all abilities*. National Girls Collaborative Project National Webinar.
- Israel, M.** (September, 2017). *Supporting students with disabilities in K-8 computer science instruction: Project TACTIC: Teaching All Computational Thinking through Inclusion and Collaboration*. National Science Foundation research conference on STEM education, learning disabilities, and the science of dyslexia. Washington DC.
- Israel, M., *Pokimica, J., Reese, G., & *Lash, T.** (July, 2017). *Emerging strategies for struggling learners in integrated mathematics and CS classrooms in elementary grades*. Computer Science Teachers Association (CSTA) Annual Meeting. Baltimore, MD.
- Reese, G., *Maa, W., **Israel, M., & Rocke, J.** (July, 2017). *Mathematics instruction and coding in the elementary school*. International Society of Technology in Education (ISTE) Annual Conference, San Antonio, TX.
- Weber, S., Quinn, B., & **Israel, M.** (May, 2017). *EngageCSEdu Discussion Circles: Exploring the intersection between EngageCSEdu engagement practices and Universal Design for Learning*. Invited session at the National Center for Women and Information Technology (NCWIT) National Meeting. Tucson, AZ.
- Youngpradit, P., Twarek, B., Rosato, J., **Israel, M., & Sahami, M.** (May, 2017). *Understanding the K-12 CS Framework*. Invited panel presentation at InfoSys CrossRoads, San Francisco, CA.

- Israel, M., *Chung, M. Y., *Wherfel, Q., & *Shehab, S.** (April, 2017). *Including students with disabilities in CS for All: Research findings and implications for practice*. American Educational Research Association National Meeting, San Antonio, TX.
- Israel, M., *Wherfel, Q., & *Pokimica, J.** (April, 2017). *Classroom lessons to learning trajectories: Mathematics + computational thinking*. American Educational Research Association National Meeting, San Antonio, TX.
- Moran, C., **Israel, M., & *Wherfel, Q.** (April, 2017). *Strategies for including students with disabilities in computational thinking*. National Council of Teachers of Mathematics (NCTM) National Meeting, San Antonio, TX.
- Israel, M., *Lash, T., & Reese, G.** (March, 2017). *Emerging learning progressions in K-5 integrated mathematics and computer science lesson plans*. 48th Technical Symposium on Computer Science Education, Association for Computing Machinery Special Interest Group for Computer Science Education National Conference (SIGCSE), Seattle, WA.
- Shilling, R., **Israel, M., Marino, M., Moody, A., & Munson, J.** (September, 2016). *Innovations in STEM education: Technology to support students with autism; Individual Title: Teaching computer science to students with disabilities: Research findings and implications for practice #CSforAll*. Invited talk by the Center on Technology and Disability webinar sponsored by the U.S. Department of Education's Offices of Special Education Programs and STEM Initiatives.
- Israel, M.** (July, 2016). *Teaching computer science to K-8 students at risk for academic failure: Research findings and implications for practice*. Invited talk by the Lynne and William Frankel Center for Computer Science, Distinguished Lecture Series, Department of Computer Science, Ben Gurion University of the Negev, Beer Sheva, Israel.
- Marino, M., Basham, J., **Israel, M., & Vasquez, E.** (April, 2016). *Gaming and learners with disabilities*. Invited Showcase Panel for the CEC Technology and Media Division. Council for Exceptional Children 2016 Annual Conference, St. Louis, MO.
- Israel, M.** (November, 2015). *Promoting collaborative problem solving through computational thinking and computer programming for K-8 students with disabilities*. Presentation at the Teacher Education Division of the Council for Exceptional Children Annual Meeting, Tempe, AZ.
- Israel, M.** (October, 2015). *Increasing access to K-12 computer programming and computational thinking for students with disabilities*. Invited presentation at the 15th Annual Conference on Cognitive Disability and Technology, Coleman Institute for Cognitive Disabilities, Denver, CO.
- Reese, G., **Israel, M. & *Maa, W.** (June, 2015). *Elementary tools for computational thinking*. Poster presentation at the annual International Society of Technology in Education (ISTE) Conference, Philadelphia, PA.
- Mercier, E., Fong, C., Forsell, K., **Israel, M., Joyce-Gibbons, A., Martinez-Maldonado, R., Shehab, S., & Slotta, J. D.** (June 2015). *Researching and designing for the orchestration of learning in the CSCL classroom*, Symposium presentation at 11th International Conference on Computer Supported Collaborative Learning (CSCL), Gothenburg, Sweden.
- Israel, M.** (March 2015). *What can we do to engage ALL learners in science teaching and learning? Practical strategies for science teachers*. National Science Teachers Association (NSTA) Pre-Conference Workshop, Chicago, IL.

- Apone, K. Bers, M., Brennen, K., Franklin, D., **Israel, M.**, & Youngpradit, P. (March, 2015). *Bringing grades K-5 to the mainstream computer science education*. Panel presentation at the Association for Computing Machinery Special Interest Group for Computer Science Education National Conference (SIGCSE), Kansas City, MO.
- Israel, M.**, *Pearson, J., *Werfel, Q., & *Faust, T. (November, 2014). *Helping students with disabilities learn computer programming and computational thinking*. Presentation at the Teacher Education Division of the Council for Exceptional Children Annual Meeting, Indianapolis, IN.
- Israel, M.**, Kennedy, M., Lane, H., Smith, S., Billingsley, B., de Bettencourt, L., & Spooner, F. (November, 2014). *Research roundtables*. Panel presentation at the annual meeting of the Teacher Education Division of the Council for Exceptional Children, Indianapolis, IN.
- Israel, M.** *Wang, S., & Marino, M. (April, 2014). *Diverse learners playing science video games: Interactions between gaming features, reading proficiency, gender, and disability*. Paper presentation at the American Educational Research Association Meeting, Philadelphia, PA.
- Israel, M.**, & Marino, M. (April 2014). *Teaching science with video games: Implications for engaging students with disabilities*. Presentation at the Council for Exceptional Children 2014 Annual Conference, Philadelphia, PA.
- Williamson, P., & **Israel, M.** (April, 2014). *Embedding literacy explicit instruction into social studies for struggling learners*. Presentation at the Council for Exceptional Children 2014 Annual Conference, Philadelphia, PA.
- Israel, M.**, McLeskey, J., Dieker, L., & Spooner, F. (November, 2013). *Research roundtable*. Panel presentation at the annual meeting of the Teacher Education Division of the Council for Exceptional Children, Ft. Lauderdale, FL.
- Israel, M.**, Maynard, K., Micham, S., & *Surette, T. (April, 2013). *Exploring engineering with diverse learners: A mixed methods study examining variables affecting learning and attitudes*. Presentation at the 2013 National Association for Research in Science Teaching Annual International Conference, Rio Grande, Puerto Rico.
- Israel, M.** (April, 2013). *Embedding explicit literacy instruction into STEM inquiry for struggling learners*. Presentation at the Council for Exceptional Children 2013 Annual Conference, San Antonio, TX.
- Therrien, B., **Israel, M.**, Jitendra, A., Mastropieri, M., Riccomini, P., Scruggs, T., & Witzel, B. (April, 2013). *Supporting students with learning disabilities in the STEMs* (Invited Showcase Panel for the CEC Division of Learning Disabilities). Council for Exceptional Children 2013 Annual Conference, San Antonio, TX.
- Israel, M.** (November, 2012). *Promoting STEM content literacy by balancing explicit instruction and inquiry learning*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2012 National Conference, Grand Rapids. MI.
- Basham, J., **Israel, M.**, & Marino, M. (November, 2012). *Resources for supporting understanding of STEM education in special education teacher preparation*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2012 National Conference, Grand Rapids. MI.
- Israel, M.** (March, 2012). *Do we have a common STEM pedagogy? A comparative case study analysis*. Presentation at the 2012 National Association for Research in Science Teaching Annual

International Conference, Indianapolis, IN.

Mohler-Geary, J., & **Israel**, M. (March, 2012). *Edison didn't work alone: A case for collaboration among rural middle school science students using digital backpacks*. Presentation at the 2012 National Association for Research in Science Teaching Annual International Conference, Indianapolis, IN.

Stroud, M. W., **Israel**, M., & Meyer, H. M. (March, 2012). *Policy implications for teacher STEM grant proposals*. Presentation at the 2012 National Association for Research in Science Teaching Annual International Conference, Indianapolis, IN.

Alper, M., Dunn, A., Hourcade, J. P., Lee, S., Basham, J. D., & **Israel**, M. (March, 2012). *Universal designs for digital media and learning: Innovations for students with disabilities*. Presentation at the Digital Media and Learning Annual Conference, San Francisco, CA.

Israel, M., Basham, J. B., & Gardner, J. (November, 2011). *The interactive field investigation guide (iFIG): Designing a mobile learning system for diverse learners*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2011 National Conference, Austin, TX.

Israel, M., Kamman, M., & McCray, E. (November, 2011). *Mentoring new special educators in the context of high-stakes accountability*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2011 National Conference. Austin, TX.

Mohler-Geary, J., **Israel**, M., & Basham, J. (November, 2011). *Teaching scientific thinking to students with diverse learning needs with digital backpacks: Findings from a qualitative study*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2011 National Conference, Austin, TX.

Basham, J., & **Israel**, M. (July 2011). *Project iFIG: Developing a personalized pedagogical smart system*. Office of Special Education Programs Project Directors Conference. Washington, D.C.

Kamman, M., McCray, E., **Israel**, M., Gillespie, P., & Mike, A., (July 2011). *Lessons learned from the field: How teacher educators can support the induction and mentoring of beginning special education teachers*. Office of Special Education Programs Project Directors Conference. Washington, D.C.

McCray, E., Casey, R., **Israel**, M., Jaress, E., & Kamman, M. (April, 2011). *Clicking on all cylinders: How principals strategically support beginning special educators' development*. Presentation at the Council for Exceptional Children 2011 Annual Conference, National Harbor, MD.

Basham, J., Bullard, D., Gardner, J., Gauthier, W., **Israel**, M., & Marino, M. (April, 2011). *Using technology to support science, technology, engineering, and mathematics (STEM) for all*. Presentation at the Council for Exceptional Children 2011 Annual Conference, National Harbor, MD.

Israel, M., Kamman, M., & McCray, E. (November, 2010). *The 3 C's of mentor/mentee interactions: Content, context, and communication*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2010 National Conference, St. Louis, MO.

Basham, J., **Israel**, M., & Gardner, J. E., (November, 2010). *Informing teacher preparation on UDL, technology, and STEM education: The STEM for ALL initiative*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2010 National Conference, St. Louis, MO.

- Israel, M., Smith, S. J., & Billingsley, B. B.** (June, 2010). *E-Mentoring: Web 2.0 tools for teacher education and induction support*. SIGTE Sponsored Session for the International Society for Technology in Education annual conference, Denver, CO.
- Israel, M.** (April, 2010). *How are doctoral special education students prepared for future roles as teacher educators?* Poster Presentation at the Council for Exceptional Children 2010 Annual Conference, Nashville, TN.
- Basham, J., Marino, M., & **Israel, M.** (April, 2010). *Using technology to enhance science, technology, engineering, and mathematics (STEM) learning*. Presentation at the Council for Exceptional Children 2010 Annual Conference, Nashville, TN.
- Israel, M. & Walther-Thomas, C. S.** (November, 2009). *Preparation of special educator teacher educators: A mixed methods study*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2009 National Conference, Charlotte, NC.
- Billingsley, B. B., Walther-Thomas, C. S., & **Israel, M.** (November, 2009). *Developing and sustaining the work of teacher leaders in special education*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2009 National Conference, Charlotte, NC.
- Carnahan, C., **Israel, M., & Wilder, L.** (November, 2009). *University-school collaborative professional development to improve education for students with ASD*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2009 National Conference, Charlotte, NC.
- Walther-Thomas, C. S., & **Israel, M.** (July, 2009). *Preparing special education teacher educators: A description of the landscape*. Office of Special Education Programs Project Directors Conference. Washington, D.C.
- Walther-Thomas, C. S., **Israel, M., & Steinbrecher, T.** (April, 2009). *Why some doctoral students take longer to finish than others*. Presentation at the Council for Exceptional Children 2009 Annual Conference. Seattle, WA.
- Smith, S. J., **Israel, M., & Mike, Alyson.** (April, 2009). *Using technology to prepare and mentor beginning special education teachers*. Presentation at the Council for Exceptional Children 2009 Annual Conference. Seattle, WA.
- Israel, M., & Smith, S. J.** (April, 2009). *E-Mentoring: Maximizing our technology tools for mentoring and professional development*. Poster Presentation at the Council for Exceptional Children 2009 Annual Conference. Seattle, WA.
- Billingsley, B. B., Griffin, C. C., Smith, S. J., Kamman, M., & **Israel, M.** (April, 2009). *A review of research on new teacher induction in special education*. Presentation at the 2009 American Educational Research Association Annual Conference. San Diego, CA.
- Israel, M., & McNiff, M.** (February, 2009) *Minimizing the observer effect through video conferencing*. Presentation at the Midwest Symposium for Leadership in Behavior Disorders. Kansas City, MO.
- Walther-Thomas, C. S. Lignugaris/Kraft, B. & **Israel, M.** (November, 2008). *Successful project profiles: Benefits of long-term OSEP investments in personnel preparation*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2008 National Conference. Dallas, TX.

- Billingsley, B.B., Griffin, C. C., Smith, S. J., Kamman, M., & **Israel**, M. (November, 2008). *A review of teacher induction in special education: Research, practice, and technology solutions*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2008 National Conference. Dallas, TX.
- Israel**, M., & Griswold, D. (November, 2008). *Bridging theory and practice through video conferencing in special education coursework*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2008 National Conference. Dallas, TX.
- Israel**, M., & Anderson, S. (November, 2008). *Socially-constructed evaluative case studies within a wiki platform*. Presentation at the Teacher Education Division of the Council for Exceptional Children 2008 National Conference. Dallas, TX.
- Walther-Thomas, C. S., **Israel**, M., Steinbrecher, T. (July, 2008). *Why some doctoral students take longer to finish than others: OSEP grant "non-completers"*. Office of Special Education Programs Project Directors Conference. Washington, D.C.
- Israel**, M., Moshirnia, A. V., & Anderson, S. (July, 2008). *Case-based authentic assessment applications within wikis*. Full Paper Presentation at the World Conference on Educational Multimedia, Hypermedia, and Telecommunications (Ed-Media). Vienna, Austria.
- Israel**, M. (April, 2008). *Preparing special education teacher educators: A description of the landscape*. Poster Presentation at the Council for Exceptional Children 2008 Annual Conference, Boston, MA.
- Israel**, M., Pattison, J., Moshirnia, A. V., & Newton, J. (March, 2008). *Supporting novice special educators through e-mentoring*. Full Paper Presentation at the Society of Information Technology & Teacher Education International Conference. Las Vegas, NV.
- Israel**, M., & Harms, M. (March, 2008) *Assessing the observer effect on student behaviors through video conferencing observations*. Poster Presentation at the Society of Information Technology & Teacher Education International Conference. Las Vegas, NV.
- Moshirnia, A. V., & **Israel**, M. (March, 2008). *The use of graphic organizers within e-mentoring wikis*. Brief Paper Presentation at the Society of Information Technology & Teacher Education International Conference. Las Vegas, NV.
- Israel**, M., & Dean, S. (November, 2007). *Universally designed assessment in teacher education courses: Applying multiple means of expression*. Presentation at the National Teacher Education Division of the Council for Exceptional Children 2007 National Conference, Milwaukee, WI.
- Anderson, S., & **Israel**, M. (November, 2007). *Issues administrators, highly qualified teachers, and uncertified special educators consider critical: Qualitative findings*. Presentation at the National Teacher Education Division of the Council for Exceptional Children 2007 National Conference, Milwaukee, WI.
- Walther-Thomas, C. S., Lupi, M., & **Israel**, M. (November, 2007). *Doctoral Student Involvement in Affecting Special Education Policy: A Panel Discussion*. Panel Presentation at the National Teacher Education Division of the Council for Exceptional Children 2007 National Conference, Milwaukee, WI.
- Robinson, S. M., **Israel**, M. & Griswold, D. (July, 2007). *Meeting the needs of urban special educators on emergency waivers through a university-school district collaboration*. Poster presentation at

the Office of Special Education Programs Project Directors Conference. Washington, D.C.

Israel, M. (April, 2007). *Interactive video conferencing used to enhance practicum supervision experiences*. Poster presentation at the Council for Exceptional Children Annual Conference, Louisville, KY.

Israel, M., & Anderson, S. (April, 2007). *Using case studies as authentic assessment in pre-service teacher education coursework*. Presentation at the Council for Exceptional Children Annual Conference, Louisville, KY.

Knowlton, E., & **Israel, M.** (March, 2007). *Effects of Interactive Video Conferencing on Teacher Education Students' Knowledge of Special Education*. Full Paper Presentation at the Society of Information Technology & Teacher Education International Conference. San Antonio, TX

LOCAL, REGIONAL, AND STATE PRESENTATIONS

Israel, M., Antonenko, P., & Botelho, A. (2023, October). *AI in education: Innovative approaches to research and development of AI in K-12 education to support teaching and learning*. Panel discussion at UF AI Days Faculty Conference. Gainesville, FL.

Israel, M., & Miller, D. (2023, July). Effective pedagogy for computer science education. CSFest 2023. Northeast Florida Regional STEM2Hub Conference. Palatka, FL.

Winger-Bearskin, A., **Israel, M., & Steinberg, S.** (2023, March). *Parenting in the age of AI series: Parenting and social media*. Cade Museum and University of Florida workshop, Gainesville, FL.

Israel, M., & Hozore, E., (2023, March). *CS for Rural students with disabilities*. CS4GA Virtual Summit.

Israel, M., & Barrett, J., (2023, February). *Bringing Accessibility and UDL into Preservice CS Education*. Computer Science Education in Preservice Programs Workshop. Atlanta, GA.

Israel, M., (2023, February). *Implementing equitable CS in your school: Supporting students with disabilities*. Creating the conditions for equitable K-12 CS meeting. California Computer Science Education meeting. Virtual

Israel, M. (June, 2022). *CSforALL: Strategies to Maximize Impact for Students with Disabilities*. 2nd Annual STEM2Hub Florida CS Festival. Palatka, FL.

Israel, M., & Dixon, Z. (March, 2021). *Universal Design means Computer Science for ALL*. CS4GA Summit: Beyond Access. Invited Presentation at the CS4GA Beyond Access Summit. <https://www.youtube.com/watch?v=fQKBr3nNSOk>

Israel, M. (November, 2020). *Using technology and to implement Universal Design for Learning in integrated elementary CS + math instruction*. Invited Presentation at the Georgia Mathematics Equity Summit. (Virtual conference).

Israel, M., & Ray, M. (January, 2020). *Bridging the special and general education divide in elementary CS through Universal Design for Learning*. Invited Presentation at To Code + Beyond. New York, NY.

Israel, M., Strickland, C., & *Lash, T. (August, 2018). *Integrating computational thinking into elementary mathematics*. Two-day workshop in New York City Public Schools; PS 86x, New

York, NY.

- Israel, M.** (August, 2018). *Universal Design for Learning classroom applications: Finding ways to meaningfully include all learners in inclusive classrooms*. Keynote presentation for the California State, Long Beach Master Teacher Institute, Long Beach, CA.
- Israel, M.** (August, 2018). *Overcoming barriers to using the Universal Design for Learning framework: Strategies from Inclusive STEM classrooms*. Keynote presentation for the California State, Long Beach Master Teacher Institute, Long Beach, CA.
- Israel, M., Strickland, C., *Lash, T., Cicek, Y., & Owens, I.** (July, 2018). *Everyday Computing: Integrating computational thinking into elementary mathematics*. Week-long professional development at the Infosys Foundation USA Pathfinders Summer Institute, Bloomington, IN.
- Israel, M., & *Lash, T.** (August, 2018). *Universal Design for Learning in K-12 Computer Science Pedagogical Strategies*. Three-day workshop at the Computer Science in San Francisco Summer Institute, San Francisco, CA.
- Israel, M.** (January, 2018). *Universal Design for Learning: Implications for and teacher education*. California State Long Beach Teacher Education Seminar, Long Beach, CA.
- Israel, M.** (April, 2017). *Teaching computer science to students with disabilities*. CSNYC Education Meet-Up, New York, NY. <https://www.meetup.com/CSNYC-Education-Meetup/events/238215480/>
- Israel, M., *Wherfel, Q., & Shehab, S.** (October, 2016). *Student collaboration with computer programming and elementary mathematics*. The 2016 Annual Meeting of the Illinois Council of Teachers of Mathematics, Peoria, IL.
- Israel, M., & Meitl, L.** (September, 2016). *Universal Design for Learning: Implications for K-12 teachers and administrators*. 39th Annual Special Education Administrators' Fall Conference, Missouri Council of Administrators of Special Education, Osage Beech, MO.
- Israel, M.** (April, 2016). *Universal Design for Learning: Where do teachers and administrators start?* Workshop at the University of Central Florida, Orlando, FL.
- Israel, M.** (January, 2016). *Universal Design for Learning: Implications for higher education and teacher Education*. Keynote presentation at Loyola Marymount University College of Education Faculty Retreat, Los Angeles, CA.
- Israel, M.** (December 2015). *Teaching collaborative problem solving and applied mathematics through computer programming and computational thinking*. Executive Leadership Academy Leading with Technology Workshop, University of Illinois, Champaign, IL.
- Israel, M., Reese, G., *Shehab, S., *Wherfel, Q., & *Snodgrass, M.** (October, 2015). *Engaging academically diverse learners in computer programming and computational thinking*. Presentation at the Office of Mathematics, Science, and Technology Education at the University of Illinois at Urbana Champaign.
- Fu, W., Lane, H. C. & **Israel, M.** (February, 2015). *An educational gaming platform for training spatial skills*. Illinois Learning Sciences Design Laboratory Lightening Symposium, Champaign, IL.
- Israel, M. Abelson, J., Singer, C., Lane, H. C., Fu, W., & Newell, T.** (February, 2015). *Game-based*

virtual internship environments. Illinois Learning Sciences Design Laboratory Lightning Symposium, Champaign, IL.

Wiegand, J., *Lash, T., Nadrozne, T., Reese, G., **Israel, M.**, *Lee, K., Wolske, M., & Bonnet, L. (2024). *U4: Meeting the needs of schools and community*. UIUC Chancellor's Micro Urban Transformational Leadership Summit, University of Illinois, Urbana, Champaign.

*Brunner, J., & **Israel, M.** (November, 2014). *Zero net energy homes game design for middle school science classes*. Cognitive Science of Teaching and Learning Brown Bag Research Talk, University of Illinois at Urbana Champaign.

Israel, M. (April, 2014). *Teaching science with video games: Implications for engaging struggling learners and students with disabilities*. Hardie Faculty Fellow Lecture, University of Illinois at Urbana Champaign.

Israel, M. (November, 2013). *Engaging struggling learners and students with disabilities in STEM*. Presentation at the Office of Mathematics, Science, and Technology Education at the University of Illinois at Urbana Champaign.

Israel, M. (October, 2013). *What we can learn from work in "serious" video games*. Presentation at the Champaign Urbana Design Organization (CUDO) Plays Game Design Symposium.

Israel, M. (July, 2012). *E-mentoring for supporting beginning special education teachers*. Webinar for the National Center to Inform Policy and Practice in Special Education Professional Development, University of Florida.

Israel, M. & *Spivak, W. (February, 2012). *STEM mobile learning: Supporting struggling learners, students with disabilities, and English language learners*. Presentation at the annual Ohio Educational Technology Conference (eTech), Columbus, OH.

Israel, M. (February, 2012). *Coaching in the moment: Supporting new teachers of students with and without disabilities*. Presentation at the annual Ohio Educational Technology Conference (eTech), Columbus, OH.

Basham, J. B., Lowrey, A., **Israel, M.**, & Zabala, J. (November, 2011). *Supporting the scaled practice of Universal Design for Learning*. Presentation at the Ohio Center for Autism and Low Incidence annual conference, Columbus, OH.

Israel, M. (September, 2010). *Addressing Academic Diversity in STEM Instruction: Strategies and Technologies*. Presentation at the Southwest Ohio STEM Education Hub of the Ohio STEM Learning Network Inspiring Innovation Conference, Cincinnati, OH.

Basham, J., & **Israel, M.** (September, 2010). *Cool Tools and Universal Design for Learning*. Presentation at the Southwest Ohio STEM Education Hub of the Ohio STEM Learning Network Inspiring Innovation Conference, Cincinnati, OH.

Israel, M. (August, 2010). *Enhancing teachers' professional capacity through technology*. Presentation at the Ohio Center for Autism and Low Incidence annual conference, Columbus, OH.

Israel, M. (August, 2010). *Supervisor forum: How to provide support for staff through Web 2.0 tools*. Regional Autism Advisory Council (RAAC) Summer Institute, Cincinnati, OH.

Israel, M., & Basham, J. (July 2010). *Instructional and Peer Coaching for Math and Science Teachers*.

Miami of Ohio Summer Science and Math Teaching Institute.

- Williamson, P., & **Israel**, M. (June, 2010). *Teacher leadership: Using technology to support teacher induction and improved student outcomes*. Ohio Board of Regents Conference on Teacher Quality, Columbus, OH.
- Basham, J., & **Israel**, M. (April, 2010). *Using Universal Design for Learning to Support Project Based Learning through Cool Tools*. Presentation at the Cincinnati Science, Technology, Engineering, and Mathematics (STEM) Conference, Cincinnati, OH.
- Israel**, M. & Carnahan, C. (February, 2010). *Connecting teachers through online communities of practice*. Presentation at the Ohio Education Technology Conference (eTech). Columbus, OH.
- Carnahan, C., & **Israel**, M. (February, 2010). *Supporting teachers and their students with autism through remote coaching*. Presentation at the Ohio Education Technology Conference (eTech). Columbus, OH.
- Carnahan, C., **Israel**, M., & Snyder, K. (November, 2009). *Intensive support for inservice teachers of students with autism spectrum disorders*. Presentation at the University Summit of the Ohio Center for Autism and Low Incidence. Columbus, OH.
- Harms, M., & **Israel**, M. (March, 2008). *Innovative uses of video conferencing: Reducing the observer effect on student behaviors*. Presentation at the University of Kansas Professionals for Disabilities 4th Annual Conference, Lawrence, KS.
- Anderson, S., & **Israel**, M. (March, 2007). *Case studies as standards-based evaluative tools in pre-service teacher education*. Presentation at the University of Kansas Professionals for Disabilities 3rd Annual Conference, Lawrence, Kansas.
- Israel**, M. (March, 2007). *Project P.O.I.S.E. (Providing outreach instruction to special educators): Meeting the needs of P.O.I.S.E. students through an urban school district and university collaboration*. Poster Presentation for the National Council for Accreditation of Teacher Education (NCATE) Site Visit of the University of Kansas School of Education, Lawrence, KS.
- Israel**, M., & Harms, M. (February, 2007). *Application of virtual environments for children with high-functioning autism and Asperger Syndrome*. Presentation at the Midwest Symposium for Leadership in Behavior Disorders, Kansas City, MO.
- Harms, M., **Israel**, M., Griswold, D., & Knowlton, E. (February, 2007). *The use of interactive video conferencing for data collection of student behaviors*. Presentation at the Midwest Symposium for Leadership in Behavior Disorders, Kansas City, MO.

UNIVERSITY TEACHING EXPERIENCE

University of Florida

- Issues and Trends in K-12 Computer Science Education (online CS education course)
- Qualitative Research for Educational Technology
- Using the Internet in Education (online master's educational technology course)
- K-12 Computer Science Education Research (doctoral seminar)
- Computer Science Education Pedagogy 1 (online CS education course)
- Computer Science Education Pedagogy 2 (online CS education course)
- Universal Design for Learning and Digital Accessibility (doctoral seminar)

University of Illinois at Urbana Champaign

Introduction to Instructional Technology

Instructional Strategies

Curriculum Development I

Curriculum Development II

Disability Issues in Special Education

Doctoral Seminar for LEAD Fellows

University of Cincinnati, College of Education, Criminal Justice, and Health Services

Secondary Teaching Methods: Science

Instructional Methods: Mild to Moderate Disabilities

Assessment and Intervention

Teaching Reading in the Content Areas

Advanced Assistive Technology and Universal Design for Learning (online)

Advanced Instructional Strategies in Special Education (online)

Science Education Doctoral Research Seminar

SELECTED PROFESSIONAL SERVICE**State and National Service****National Computer Science Education Initiatives**

- CSAccess: The Computer Science Teachers Association Working Group on Accessibility and Inclusion, member, 2022-present.
- Conference Program Co-Chair, 8th and 9th Annual Conference on Research in Equity and Sustained Participation in Engineering, Computing and Technology (RESPECT), 8th Annual Conference held May, 2023. IEEE proceedings forthcoming.
- CS for All Accessibility Taskforce member. CS for All Consortium. 2018-present.
- Access CS for All Center: Including Students with Disabilities in Computing Education for the 21st Century, member, 2016-present.
- CS for All Consortium, <http://www.csforall.org/>, research member, 2016-present.
- National Center for Women & Information Technology (NCWIT): Universal Design for Learning in EngageCSEdu initiative, member, 2016-2018.
- Framework for K-12 Computer Science Education, <http://K12CS.org>, Thought leaders committee & Computational practices writing team participant, 2015-2016.

State and National Committee Work

- Teach AI Guidance on the Future of CS in the Age of AI Core Group, 2024-present.
- Florida Cybersecurity Education Task Force, 2022-present.
- CSTA Educator Standards Revision writing team member, 2019-2022.
- Research Committee for the Teacher Education Division of the Council for Exceptional Children (TED), Committee Member, 2009-2021.
- Technology and Media Division of the Council for Exceptional Children (TAM), Board member, legislative liaison, 2015-2017.

- Illinois Teacher Education Division of the Council for Exceptional Children (ITED), executive board member, member at large, 2014-2015.
- Research Committee for the Teacher Education Division of the Council for Exceptional Children (TED), Co-chair, 2014-2016.
- Special Needs Advisory Board to the National Science Teachers Association (NSTA), Board member, 2011-2014.
- Special Education Technology Special Interest Group (SETSIG) of the International Society for Technology in Education (ISTE). Advocacy and Governmental Relations Liaison, 2011-2014.

Guest Co-Editor

- TEACHING Exceptional Children: Science, Technology, Engineering, and Mathematics Topical Issue, 2011-2012.

Editorial Boards and Field Reviewer

- Transactions on Computing Education, 2019-present.
- Journal of Computer Science Education, 2020-present.
- Journal of Science Teacher Education, 2016-present.
- Teacher Education and Special Education, 2014-present.
- Journal of Special Education Technology, 2009-present.

Journal Reviewer

- Teacher Education and Special Education, 2014-present.
- Research and Practice in Technology Enhanced Learning, 2015-present.
- Computers & Education, 2014-present.
- Remedial and Special Education, 2013-present.
- ACM Transactions on Computing Education, 2018-present.
- Journal of Computer Science Education, 2019-present.

Grant Proposal Reviewer

- National Science Foundation, Directorate for Education and Human Resources, served on multiple panels and as an ad hoc reviewer, 2014-present.
- U.S. Department of Education, panelist, 2021-present.

Conference proposal reviewer

- AERA, 2021-present.
- International Society for Technology in Education annual conference, 2012-2014.
- Council for Exceptional Children annual conference, 2005-2011, 2016, 2017.
- Teacher Education Division, Council for Exceptional Children annual conference, 2006-2009.

University Service

University of Florida

- Member, Search committee, Educational Leadership and Policy, 2023-2024.
- Member, University of Florida AI Days Planning Committee, 2023.
- Member, College of Education, Faculty Policy Council, 2020-2022.
- Member, School of Teaching and Learning Policy Advisory Committee, 2021-2023.
- Member, Search Committee, Special education, 2022-2023.
- Chair, Artificial Intelligence/Computer Science Education search committee, 2021-2022.
- Member, Higher Education Administration search committee, 2021.
- Chair, College of Education, Technology and Distance Education Committee, 2020-2021.
- Member, College of Education, Technology and Distance Education Committee, 2020-2022.
- Reviewer, UF Racial Justice Research Fund proposals, 2020, 2022.
- Co-Chair, School of Teaching and Learning, Merit and Personnel Committee, 2019-2021.
- Member, College of Education Committee for Elections, 2019, 2021, 2022.
- Member, Diversity and Inclusion Committee, 2018-2019.
- Member, School of Teaching and Learning Graduate Studies Committee, 2018-2019.
- Member, Search committee, Director for the Institute for Advanced Learning Technologies, 2018-2020.
- Member, Search committee, Department of Special Education, 2018-2019.

University of Illinois at Urbana-Champaign

- Chair, Department of Special Education Awards Committee, 2016-2018.
- Member, College of Education, College Executive Committee (CEC), 2017- 2018.
- Member, College of Education, Technology Innovations in Educational Research and Design (TIER-ED) committee, 2017- 2018.
- Member, College of Education Academic Programs Committee (APC), 2016- 2018.
- Member, Digital Environments for Learning, Engagement & Agency (DELTA) admissions committee, 2015- 2018.
- Member, Dept. of Special Education, Qualifying Exams Committee, 2014-2016; 2018.
- Member, Department of Special Education, Faculty Advisory Committee (FAC), 2015- 2017.
- Member, Search committee for two Department of Special Education faculty, 2016.
- Member, Search committee for Curriculum and Instruction faculty science education research faculty, 2016- 2017.
- Member, College of Education Grievance Committee, 2014-2016.
- Member, Search committee for College of Education Data Analytics Faculty, 2014-2015.
- Member, LBS1 licensure committee, Department of Special Education, 2012-2018.
- Member, College of Education, Faculty & staff awards committee, College of Education, 2012-2018.
- Member, College of Education task force for Digital Ecologies and Learning (DEAL) initiative, 2014-2018.
- Member, Dept. of Special Education, Social Committee, Department of Special Education, 2013-2014.
- Member, Working group for the Clean Energy Education Initiative, Graduate College. University of Illinois. 2012- 2013.
- Member, Search committee for the coordinator of school-university relations position, 2013.

University of Cincinnati

- Member, UC FUSION STEM Education & Research Center, 2009-2012.
- Member, CECH Research and Development Board, 2010-2012.
- Member, UC School of Education Licensure Council, 2011-2012.
- Member, Special Education Admissions Committee, 2010-2012.

- University of Cincinnati Representative, Higher Education Consortium for Special Education (HECSE), 2009-2012.

K-12 School Service

- Advisory Board Member, CSforALL Accessibility Pledge, 2018-present
- CS4GA support for inclusion of students with disabilities in K-12 computer science instruction in the state of Georgia.
- Broward County Public Schools, K-12 computer science for students with disabilities initiative, 2018-present.
- New York City CS4All Advisory Board member, 2017-present.
- CSNYC (The New York City Foundation for Computer Science Education) collaborator for K-12 computer science for all research, 2016-2020.
- Champaign Unit 4 School District, K-12 Computer science/computational thinking for diverse learners initiative, 2013-2018.
- Chicago Public Schools Computer Science for All initiative, leadership support for administrators and teachers of students with disabilities, 2017.
- Booker T. Washington STEM Academy, Common Core State Standards (CCSS) Alignment project, 2012-2013.
- Thomas Paine Elementary School, STEM for struggling learners and students with disabilities professional development, 2013.
- Cincinnati Public Schools_Content Literacy Coaching Project, 2011-2012.
- Middletown Public Schools, Virtual coaching and mentoring supports, 2010- 2011.

Professional Affiliations

- National Center for Women and Information Technology (NCWIT)
- Association for Computing Machinery (ACM) Special Interest Group on Computer Science Education (SIGCSE)
- Universal Design for Learning Implementation and Research Network (UDL-IRN)
- Council for Exceptional Children
 - Division of Teacher Education (TED)
 - Technology and Media (TAM)
 - Division for Research (DR)
- American Educational Research Association (AERA)
 - Special Education Special Interest Group
 - Division C—Learning and Instruction