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Peer-Reviewed Publications

Ozogul, G., **Karlin, M.**, Ottenbreit-Leftwich, A., Ding, A., Liao, Y., Guo, M. (2019). Instructional practices for addressing computer science standards: Using computer kits in preservice teacher education. *Research on Education and Media*, *11* (1), 18-24.

Karlin, M., Ozogul, G. (2018). Design and Implementation of a Structured Academic Controversy for Preservice Teachers in a Computer Education Licensure Program. *Journal of Applied Instructional Design, 7*(1), 27-34. doi: 10.28990/jaid2018.071005

Ozogul, G., **Karlin, M**. & Ottenbreit-Leftwich, A. (2018). Preservice Teacher Computer Science Preparation: A Case Study of an Undergraduate Computer Education Licensure Program. *Journal of Technology and Teacher Education, 26*(3), 375-409.

Karlin, M., Ottenbreit-Leftwich, A., Ozogul, G., Liao, Y. (2018). K-12 Technology Leaders: Reported Practices of Technology Professional Development Planning, Implementation, and Evaluation. *Contemporary Issues in Technology and Teacher Education Journal*, *18*(4). 722-748.

Liao, Y., Ottenbreit-Leftwich, A., Brush, T., **Karlin, M.,** Glazewski, G. (2017). Supporting Change in Teacher Practice: Examining Shifts of Teachers' Professional Development Preferences and Needs for Technology Integration. *Contemporary Issues in Technology and Teacher Education*, *17*(4). 522-548.

Karlin, M., Ozogul, G., Miles, S., & Heide, S. (2016). The Practical Application of e-Portfolios in K-12 Classrooms: An Exploration of Three Web 2.0 Tools by Three Teachers. *TechTrends, 60*(4), 374-380. doi: 10.1007/s11528-016-0071-2

Book Chapters

Xavier, J., Zarch, R., Dunton, S., Ottenbreit-Leftwich, A., **Karlin, M.** (in press). Understanding K-12 CS Education at the State Level: Where and When Pre-service CS Teacher Training Fits and Moving Toward Building Sustainable Teacher Pathways. In C. Mouza, A. Yadav, & A. Leftwich (Eds.), *Preparing Teachers to Teach Computer Science: Models, Practices and Policies.* Charlotte, NC: Information Age Publishing.

Poth, R.D., Fernando, A., Okoye, R., & **Karlin, M.** (2018). Blogging for Teachers and Students. In Ottenbreit-Leftwich, A. & Kimmons, R. (Eds.), *The K-12 Educational Technology Handbook*. EdTech Books. Retrieved from https://edtechbooks.org/k12handbook.

Grants

*Developing an Open Textbook with Expert Contributions for W200: Computers in Education (*2017-2018*).* Indiana University School of Education Learning with Technology Challenge Development Grant. PI: Dr. Anne Ottenbreit-Leftwich, Co-PIs: **Michael Karlin**, Ya-Huei Lu, Yin-Chan Liao. $4,000 Over 1 Year. FUNDED

National & International Presentations

Brush, T., Ottenbreit-Leftwich, A., Kwon, K. & **Karlin, M.** (2019). Implementing Socially Relevant Problem-Based Computer Science Curriculum at the Elementary Level: Students' Computer Science Knowledge and Teachers' Implementation Needs. In K. Graziano (Ed.), *Proceedings of Society for Information Technology & Teacher Education International Conference* (pp. 2257-2266). Las Vegas, NV, United States: Association for the Advancement of Computing in Education (AACE). Retrieved August 31, 2019 from https://www.learntechlib.org/primary/p/207963/.

Guo, M., **Karlin, M.**, Liao, J., Ding, A., Lu, Y., Ottenbreit-Leftwich, A. (2018, October). *Implementation of a Research-Based Professional Development Technology Coaching Model in an Elementary School*. Presentation given at the 2018 Association for Educational Communications and Technology (AECT) Annual International Convention, Kansas City, MO.

Karlin, M. (2018, October). *Kansas City: From a Graduate Student Perspective*. Presentation given at the 2018 Association for Educational Communications and Technology (AECT) Annual International Convention, Kansas City, MO.

Ottenbreit-Leftwich, A., Cullen, T., Liao, J., **Karlin, M.** (2018, June). *Best Research-Based Practices for #EdTech Professional Development: A Summary and Workshop.* Concurrent presentation at the 2018 International Society for Technology in Education (ISTE) Annual International Conference in Chicago, IL.

Karlin, M., Ozogul, G. (2017, November). *Preservice Teachers' Perceptions and Beliefs about Controversial Technology-Related Issues in a Computer Education Licensure Program*. Roundtable presentation at the 2017 Association for Educational Communications and Technology (AECT) Annual International Convention, Jacksonville, FL.

Karlin, M., Bae, H., Alsaif, M., Basdogan, M., Edelberg, T., Ergulec, F., Nadiruzzaman, H., Sari, A., Zhu, M., Brush, T., & Glazewski, K. (2017, November). *Signals of Reflective Thinking Among Middle School Learners in a Maker Environment*. Concurrent presentation at the 2017 Association for Educational Communications and Technology (AECT) Annual International Convention, Jacksonville, FL.

Hale, P., Brynteson, K., **Karlin, M.,** Stork, M., Huett, K. (2017, November). *The Development of a Multi-disciplinary, Online Learning Space Repository.* Panel presentation at the 2017 Association for Educational Communications and Technology (AECT) annual conference, Jacksonville, FL.

Liao, Y., **Karlin, M.**, & Ottenbreit-Leftwich, A. (2017, June). *Improving Professional Development: Examining Perspectives from Teachers and Technology Leaders*. Paper presented at the 2017 International Society for Technology in Education (ISTE) conference, San Antonio, TX.

Ottenbreit-Leftwich, A., **Karlin, M.**, Liao, Y., & Lu., Y (2017, June). *How to Guide #EdTech PD for Teachers: Research to Practice*. Research presentation at the 2017 International Society for Technology in Education (ISTE) conference, San Antonio, TX.

Karlin, M., Bae, H., Alsaif, M., Basdogan, M., Edelberg, T., Nadiruzzaman, H., Sari, A., Zhu, M., Brush, T., & Glazewski, K. (2017, April). *Examining Reflective Thinking in Middle School Design Problem Solving in a Maker Environment*. Poster presented at the 2017 American Educational Research Association (AERA) annual meeting, San Antonio, TX.

Karlin, M., Ozogul, G. (2016, October). *In Search of a Computer Science Teacher: Expectations of Today's Job Market.* Roundtable presentation at the 2016 Association for Educational Communications and Technology (AECT) Annual International Convention, Las Vegas, NV.

Karlin, M., Liao, Y., Ottenbreit-Leftwich, A., Lu., Y., Ding, A., Guo, M., Juska., J. (2016, October). Technology Coaching with Individualized Professional Development Plans. Presentation session at the 2016 Indiana Connected Educators (ICE) Annual Conference, Noblesville, IN.

Karlin, M., Liao, Y., Ottenbreit-Leftwich, A., (2016, June) *Designing Technology-Related Professional Learning: Perspectives and Practices from the Field.* Poster presented at the 2016 International Society of Technology in Education (ISTE) conference, Denver, CO.

Karlin, M., Ozogul, G., Howard, G., Hughes, C., Chung, C. H. (2016, April). *Computer Science Education Certification: Preservice Teacher, Alumni, and Faculty Experiences in a Licensure Program*. Paper presented at the 2016 American Educational Research Association (AERA) annual meeting, Washington, DC.

Liao, Y., Ottenbreit-Leftwich, L., Brush, T., **Karlin, M.**, Glazewski, K. (2016, June) *Supporting Change in Teacher Technology Integration: Examining Shifts of Teachers' Professional Development.* Paper presented at the 2016 International Society of Technology in Education (ISTE) conference, Denver, CO.

Sabir, N., Gyabak, K., Bonk, C. J., **Karlin, M.**, Xu, S., & Saxena, P. (2016, April). *Exploring the means and methods of technology-enhanced collaborative global classrooms through teacher voices*. Roundtable session at the 2016 American Educational Research Association (AERA) annual meeting, Washington, DC.

Sabir, N., **Karlin, M.**, Gyabak, K., & Bonk, C. J. (2015, November). *Exploring teacher decisions to facilitate technology-supported collaborative teaching practices*. Poster Presentation at the 2015 Association for Educational Communications and Technology (AECT) Annual International Convention, Indianapolis, IN.

Liao, Y., Ottenbreit-Leftwich, A., Glazewski, K., Brush, T., **Karlin, M**. (2015, November). *Supporting Change in Teacher Practice: Examining Teachers' Professional Development for Technology Integration*. Poster Presentation at the 2015 Association for Educational Communications and Technology (AECT) Annual International Convention, Indianapolis, IN.

Sabir, N. Gyabak, K, **Karlin, M.**, & Bonk, C. (2015, April). *Exploring the Impact of Teacher Experiences on Technology Enhanced Global Classrooms*. Poster presented at the 2015 American Educational Research Association (AERA) Annual Conference, Chicago, IL.

Sabir, N., Gyabak, K., Bonk, C., **Karlin, M.**, Xu, S., & Saxena, P. (2015, March). *Collaborative Global Classrooms: A survey of technology supported transformative learning environments.* Poster presented at the 2015 Comparative and International Education Society's Annual Conference, Washington D.C.

Karlin, M., Howard, G., Jacimovic, V., Park, S. J. (2015, February). *From Theory to Practice: The Challenges, Successes and Lessons Learned in Creating an Instructional Design Solution for Habitat for Humanity*. Design showcase presented at Indiana University's Instructional Systems Technology annual conference in Bloomington, IN.

Local Presentations

Ottenbreit-Leftwich, A., Karlin, M. (2018, September). *Integrating Computational Thinking to Address the Indiana Computer Science Standards in English Language Arts.* Presentation given at the 2018 Flipping the Switch Conference, Indianapolis, IN.

Karlin, M. (2017, July). *App Smashing 101: Combining iOS Apps for K-8 Student Creation Activities.* Spotlight Speaker Presentation at the 2017 MCCSC TechEZ Indiana eLearning Conference, Bloomington, IN.

Karlin, M., Liao, Y., Ottenbreit-Leftwich, A., Lu, Y., Ding, A., Guo, M., & Juska, J. (2016, October). *Technology Coaching with Individualized Professional Development Plans: Challenges and Successes in an Elementary Implementation*. Presentation given at the 2016 Indiana Connected Educators (ICE) Conference, Noblesville, IN.

Karlin, M. (2016, June). *Flipped Classrooms and Blended Learning: 4 Free Tools for Creating Interactive Multimedia Lessons.* Spotlight Speaker Presentation at the 2016 engagED NWI Indiana eLearning Conference, Lowell, IN.

Karlin, M. (2016, June). *Classroom Management Strategies for Digital Devices in K-12 Classrooms.* Spotlight Speaker Presentation at the 2016 engagED NWI Indiana eLearning Conference, Lowell, IN.

Karlin, M. (2016, June). *Classroom Management Strategies for Digital Devices in the Elementary Classroom.* Presentation given at the 2016 iPower Up the Classroom Indiana eLearning Conference, Bloomington, IN.

Karlin, M. (2016, June). *Classroom Management Strategies for Digital Devices in the Secondary Classroom.* Presentation given at the 2016 iPower Up the Classroom Indiana eLearning Conference, Bloomington, IN.

Karlin, M. (2015, May). *Flipping Your Classroom: Three Free Tools for Creating Interactive Multimedia Lessons.* Presentation given at the 2015 Indiana CTO Council's annual conference, Bloomington, IN.