

ASHLEY E. LEWIS PRESSER
EDUCATION DEVELOPMENT CENTER, INC.
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PROFESSIONAL PREPARATION

University of Minnesota	Educational Psychology	Ph.D. -2007
University of Minnesota	Educational Psychology	M.A. - 2005
University of Massachusetts - Amherst	Psychology	B.S. - 2001

CURRENT POSITION

Senior Research Associate, Learning and Teaching Division, Education Development Center, Inc.

OVERVIEW OF EXPERTISE

- **Research Foci:** Conducting randomized controlled trials; early childhood education; development and evaluation of mathematics and science curricula; technology integration;
- Methodological expertise in the design and conduct of randomized controlled trials (RCTs), including quantitative methods of investigation and assessment
- Development of rigorous quantitative and qualitative research designs and methodologies to document and measure project impact

PROFESSIONAL EXPERIENCE

Principal Investigator, *Next Generation Preschool Math* (2011-2015). Led the research on the development of the *Next Generation Preschool Math* curricular supplements on the development of early mathematics skills, subitizing and equipartitioning in particular, both in pilot studies and a small, randomized controlled study with children attending publically-subsidized child care centers.

Senior Research Associate, *Next Generation Preschool Science* (2013-2017). Collaborated on the research on the development of the *Next Generation Preschool Science* curricular supplements on the development of early science skills and practices.

Senior Research Associate, *PBS Learning Media Impact Study* (2014-2015). Led the assessment and instrument development for a study seeking to understand how educators are using and implementing the PBS LearningMedia resources and to assess these resources' impact on teachers' classroom practices, quality of instruction, and student learning.

Senior Research Associate, *Digital Games as Analogical Sources for Science Learning*, (2013 – 2016). Supervised data management and data analysis for this NSF-funded project to investigate how specific features of digital gameplay and subsequent instruction for middle-grades science learning can support consolidation and transfer of conceptual understanding beyond the gameworld.

Project Methodologist, *Possible Worlds* (2008–2013). Assisted in the project leads with methodology and assessment development for project. This project was funded by the U.S. Department of

Education's Institute of Education Sciences in order to conduct a program of research and development exploring how handheld games can be designed to support science and literacy learning among middle-grade students.

Project Director, *GreenFab: Sustainable Design Through Engineering and Technology*, (2009-2011). Evaluated the GreenFab's project-based, hands-on approach to teaching STEM concepts while emphasizing a focus on career development in the emergent field of sustainable technologies.

Research Associate, *Supporting Staff Developers Project* (2008–2013). Assisted in an effort to investigate the kinds of supports that are needed to develop the capacity of teacher leaders to effectively implement two professional development programs designed to improve mathematics education for students with disabilities in their districts.

Project Director, *Research on Big Math for Little Kids* (2005-2009). Managed a randomized controlled trial examining the impact of the *Big Math for Little Kids* preschool mathematics curriculum on the development of early mathematics skills in a sample of children from low-income families attending publicly-subsidized child care centers.

Research Associate, *Hidden Sparks Professional Development Program* (2007–2009). Assisted an effort that evaluates a professional development program aimed at improving teachers' and administrators' understanding and support for a wide range of learners.

SELECTED PUBLICATIONS AND PRESENTATIONS

Lewis Presser, A.E., Vesisenaho, M., Vahey, P., Zanchi, C., Nousiainen, T., Uusi-Mäkelä, M., Viteli, J., & Orr, J. (2014, August). Tablet-based mathematics activities in preschool: Leveraging the benefits and confronting the challenges. A poster presented at the European Association for Research on Learning and Instruction (EARLI) Conference, University of Jyväskylä, Finland.

Lewis Presser, A.E., Dominguez, X., Vahey, P., Zanchi, C., & Goldstein, M. (2014, July). *Designing innovative and evidence-based preschool programs to promote early math and science learning: A collaborative partnership between researchers, media developers, and preschool educators*. A poster presented at the Head Start Research Conference, Washington, DC.

Lewis Presser, A. E., Clements, M., Ginsburg, H. G., & Ertle, B. (Accepted with Revisions). *Effects of a preschool and kindergarten mathematics curriculum: Big math for little kids*. Early Education and Development.

Vahey, P., Lewis Presser, A. E., & Dominguez, X. (2013, December). *Technology and the future of preschool: Developmentally-appropriate and evidence-based approaches to integrating technology in the classroom*. A presentation at the STEM Smart: Lessons Learned from Successful Schools Conference, Washington, DC.

Vahey, P., Dominguez, X., Lewis Presser, A.E. & Zanchi, C. (2013, November). *The design of a tablet-based preschool math program*. Poster presented at the Psychology of Mathematics Education Conference, Chicago, IL.

Lewis Presser, A., Vahey, P., & Zanchi, C. (2013, June). *Designing early childhood math games: A research-driven approach*. Short paper and poster presented at the Interaction Design and Children Conference, New York, NY.

Zanchi, C., Lewis Presser, A., & Vahey, P. (2013, June). *Next Generation Preschool Math demo: Tablet games for preschool classrooms*. Demo and paper presented at the Interaction Design and Children Conference, New York, NY.

- Culp, K., Martin, W., Clements, M., & Lewis Presser, A. E. (Under Review). *Testing the impact of a pre-instructional digital game on middle-grade students' understanding of photosynthesis*. Journal of Technology, Knowledge, and Learning.
- Ginsburg, H. G., Ertle, B., & Lewis Presser, A. E. (2012). Math curriculum and instruction for young children. In Buysse, V. and Peisner-Feinberg, E. (Eds), *Handbook of Response to Intervention (RTI) in Early Childhood*, Paul H. Brookes Publishing Co., Inc.
- Lewis, A. E., & Dec, J. (2011, June). Learning from GreenFab: What Students Discover in a STEM Internship. Paper presented at the International Society for Technology in Education, Philadelphia, PA.
- Clements, M., & Lewis, A.E. (2011, March). *Big Math for Little Kids: Presenting Positive Findings From a Randomized Control Trial of a Preschool Mathematics Curriculum*. Poster presented at the Biennial Meeting of the Society for Research in Child Development, Montreal, Canada.
- Ginsburg, H., Clements, M., & Lewis, A.E. (2010, June). *School Readiness and Early Childhood Education: What Can We Learn from Research on Preschool Mathematics Programs?* Head Start Research Conference, Washington, DC.
- Clements, M., & Lewis, A. E., (2009, July). *Assessing the impact of the Big Math for Little Kids curriculum*. Institute for Education Sciences, Washington, DC.
- Clements, M., & Lewis A. E. (2009, April). *The effectiveness of the Big Math for Little Kids curriculum: Does it make a difference*. American Educational Research Association, San Diego, CA.
- Ginsburg, H., Lewis, A.E., & Clements, M. (2008, October). *School Readiness and Early Childhood Education: What Can We Learn from Federal Investments in Research on Mathematics Programs?* Paper prepared for A Working Meeting on Recent School Readiness Research: Guiding the Synthesis of Early Childhood Research.” Washington, DC.
- Lewis, A., Mandinach, E. B., & Clements, M. (2008, March). *The initial impact of pre-k Big Math for Little Kids: A randomized control trial*. American Education Research Association, New York, NY.
- Lewis, A. & Mandinach, E. (2007, June). *Testing the Impact of a Pre-Kindergarten Mathematics Curriculum: Findings from the Evaluation of the “Big Math for Little Kids” Curriculum (Year 1)*. Poster presented at the Institute for Education Sciences Conference, Washington, DC.
- Lewis, A. & Mandinach, E. (2008). Informal Education on the Internet. In Good, T.L. (Ed), *21st Century Education*, Sage Publications, Inc.
- Mandinach, E. & Lewis, A. (2006, June). *An Experimental Evaluation of Big Math for Little Kids’ Impact on Student Performance*. Poster presented at the Institute for Education Sciences Conference, Washington, DC.
- Mandinach, E. & Lewis, A. (2006, April). *Designing a Rigorous Study: Balancing the Practicalities and the Methodology*. Paper presented at the Annual Meeting of the American Education Research Association, San Francisco, CA.
- Ertle, B., Ginsburg, H. P., & Lewis, A. (2006, April). *Measuring the Efficacy of Big Math for Little Kids: A Look at Fidelity of Implementation*. Paper presented at the Annual Meeting of the American Education Research Association, San Francisco, CA.
- Lewis, A., Kendeou, P., White, M., Butler, J., & van den Broek, P. (2005, April). *The Relations of Reading and Media Habits to Young Children’s Comprehension: A Longitudinal Study*. Paper presented at the Annual Meeting of the American Education Research Association, Montréal, Canada.