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**EDUCATION**

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Teachers College, Columbia University	Communication, Computing, and Technology in Education	Ed.D., 2009
New York University	Educational Communication and Technology	M.A., 2004
University of Pennsylvania	English; minor in Spanish	B.A., 1999

**PROFESSIONAL EXPERIENCE**

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**Senior Research Associate, Education Development Center (2007-Present)**

Develop and evaluate programs to support STEM learning in early childhood and adolescence; Work in partnership with publishers, curriculum designers, game developers, programmers, teachers, students, parents, and administrators to create tools that work in real-world settings and accommodate a variety of instructional needs; manage large-scale research, development, and evaluation projects involving multiple teams and phases. Current and recent roles include:

- **Co-Principal Investigator, *Next Generation Preschool Science* (2013-Present).** Co-lead a four-year project funded by the National Science Foundation to develop, iteratively refine, and evaluate a curricular program to support the teaching and learning of science by integrating traditional classroom resources with digital media.
- **Project Director, *Project Side x Side* (2015-Present).** Lead day-to-day implementation activities for this evaluation project, funded by the U.S. Department of Education to broaden the presence of arts integration programming to strengthen STEAM learning for K-5 students.
- **Project Director, *Year of the Solar System* (2012-2015).** Directed the evaluation of a collection of digital resources designed to address the curricular needs of grades 6-12 science teachers and students. Funded by NASA, the evaluation involves an expert review of online resources and an assessment of various professional development models in development by the WGBH Educational Foundation.
- **Senior Research Associate, *Ready to Learn* (2014-Present).** Develop instruments and manage research activities as part of a randomized controlled trial to examine how educational television programming, accompanying computer-based games, and associated print materials can have a positive impact on young children's early math skills and social-emotional development. The study is funded by the U.S. Department of Education through a partnership with the Corporation for Public Broadcasting and PBS.
- **Research Associate, *Possible Worlds* (2009–2014).** Managed field tests (including recruitment, data collection, data analysis, and dissemination), as part a five-year, \$9.2 million grant from the U.S. Department of Education's Institute of Education Sciences to conduct a program of research

and development exploring how handheld digital games can be designed to support science and literacy learning among middle-school students.

- **Research Director, *Computer-Guided Math* (2007–2010).** Directed the production and evaluation of a professional development website developed with funding from the National Institutes of Health to help early childhood educators understand children’s mathematical thinking, and to use this understanding to guide teaching in developmentally appropriate ways.
- **Research Associate, *Codifying Innovations* (2009-2010).** Conducted research funded by Cisco Systems, Inc., to identify lessons learned from 21<sup>st</sup> Century education reform efforts. Drawing from the successes and challenges experienced in New York City and school districts in New Orleans, Louisiana, research informed the development of a replicable model for transforming schools into 21st Century education systems.

**Research Associate, Education for Thinking Institute, Teachers College, Columbia University (2007-2009)**

- Implemented a middle-school science curriculum and conducted research to evaluate its promise in promoting the development of scientific thinking; designed and conducted dissertation research under the supervision of Dr. Deanna Kuhn to examine how digital scaffolds can support the development of argumentation skills in adolescents.

**New Media Associate, Columbia Center for New Media Teaching and Learning (2007)**

- Developed research methodologies and instruments to assess the effectiveness of the technology resources available to students at Columbia University; managed the field study involving Columbia University students and faculty; conducted data analyses and prepared manuscripts based on research findings.

**Research Fellow, Ben & Grace Wood Graduate Fellowship in Learning Technologies (2005-2008)**

- Funding totaled \$123,120 to complete doctoral coursework and support departmental research in instructional technology at Teachers College, Columbia University.

**Researcher, Consortium for Research & Evaluation of Advanced Technologies in Education (2003-2005)**

- Initiated research assessing social presence in online learning to inform improvements in the design of computer-assisted courses. Supervisor: Dr. Jan Plass.

**Research Coordinator, Inflexxion, Inc. (2001-2003)**

- Participated in NIH-funded clinical research and development projects creating and evaluating intervention and prevention programs for binge drinking, sexually transmitted diseases, and poor nutrition. Contributed to all phases of grants: recruited research participants, trained clinical evaluators, managed clinical field trials, conducted focus groups and usability testing.

**SELECTED PUBLICATIONS AND PRESENTATIONS**

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- **Goldstein, M.,** Dominguez, X., Vidiksis, R., Lewis Presser, A., Kamdar, D., Zanchi, C., & Blackwell, C. (2015, April). New Content, Strategies, and Tools, Oh My!: Preschool Teachers Navigate Innovations to Promote Science Learning. Paper to be presented at the annual conference of The National Association for Research in Science Teaching, to be held April 11-14 in Chicago, Illinois.
- Dominguez, X., **Goldstein, M.,** Sharifnia, E., Rutstein, D., Lewis Presser, A., Vidiksis, R., & Zanchi, C. (2015, April). Supporting Preschool Scientists: Designing Innovative Curricular Tools to Support

- Early Science Teaching and Learning. Paper to be presented at the annual conference of The National Association for Research in Science Teaching, to be held April 11-14 in Chicago, Illinois.
- Sharifnia, E., Vidiksis, R. Orr, J., Dominguez, X., **Goldstein, M.**, & Kamdar, D. (2015, March). Developing Preschool Scientists: Identifying Best Practices for Using Tablets to Support Early Science Teaching and Learning. Paper presented at the annual conference of the Society for Information Technology and Teacher Education in Las Vegas, Nevada.
  - Dominguez, X., **Goldstein, M.**, Vahey, P., Lewis Presser, A., & Zanchi, C. (2015, March). Next Generation Preschool Science: Designing Innovative Curricular Tools to Support Early Science Teaching and Learning. Poster symposium at the annual conference of the Society for Research in Child Development in Philadelphia, Pennsylvania.
  - Rutstein, D., Dominguez, X., **Goldstein, M.**, & Lewis Presser, A. (2015, April). Assessing Preschool Science Using an Evidence-Centered Design Approach. Paper presented at the American Education Research Association annual meeting in Chicago, Illinois.
  - Dominguez, X., **Goldstein, M.**, Zanchi, C., Vahey, P., & Lewis Presser, A. (2014, August). Next Generation Preschool Science: Goals and Findings from Year 1. In Kimberly Brenneman (Chair), Innovations in early childhood STEM curriculum and professional development. Poster Symposium at the meeting of the National Science Foundation's *Discovery Research K-12 PI Meeting*, Washington, DC.
  - Lewis Presser, A., 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. In Christine McWayne (Chair), Innovations in early childhood STEM curriculum and professional development. Poster Symposium at the *Head Start Research Conference*, Washington, DC.
  - **Goldstein, M.** (2012). Possible Worlds: Testing an instructional model to promote science learning through game-play. Presented at the annual *Games for Change* conference in New York, New York.
  - Martin, W., **Goldstein, M.**, & Bangura, L. (2012). Building conceptual models through handheld game-play. Presented at the annual international conference of the *Society for Information Technology & Teacher Education* in Austin, Texas.
  - Ba, H., Darling, S., **Goldstein, M.**, Pierson, E., & de Wysocki, M. (2011). Investigating the key innovative components of 21<sup>st</sup> Century education systems. Presented at the annual conference of the *International Society for Technology in Education* in Philadelphia, Pennsylvania.
  - **Goldstein, M.**, Pasquale, M., & Culp, K.M. (2011). Using students' naïve theories to design games for middle grades science. Presented at the annual conference of the *American Educational Research Association* in New Orleans, Louisiana.
  - **Goldstein, M.**, Crowell, A.J., & Kuhn, D. (2009). What constitutes skilled argumentation and how does it develop? *Informal Logic*, 29(4); 379-395.
  - **Goldstein, M.**, & Tirthali, D. (April 2009). A student—faculty comparison of technology use in medical and dental schools. Presented at the annual conference of the *American Educational Research Association* in San Diego, California.
  - **Goldstein, M.**, & Kinzer, C.K. (March 2008). Extending Schema Theory to social aspects of learning: A study in an online environment. Presented at the annual meeting of the *American Educational Research Association* in New York, New York.
  - **Goldstein, M.J.** & Noguera, P. (2006). Designing for diversity: How educators can incorporate cultural competence in programs for urban youth. *New Directions for Youth Development*, 111; 29-40.
  - Cousineau, T., Franko, D., Ciccazzo, M., **Goldstein, M.**, & Rosenthal, E. (2006). Web-based nutrition education for college students: Is it feasible? *Evaluation and Program Planning*, 29; 23-33.
  - Kinzer, C.K., Lohnes, S., Elfving, D., & **Goldstein, M.** (May 2006). Weblogs, Wikis and the World Wide Web: Learning to Use Collaborative Technologies to Enhance Literacy Teaching and Learning. Presented at the annual meeting of the *International Reading Association* in Chicago, Illinois.

- **Goldstein, M.**, Noguera, P., & Goldstein, N.E.S. (August 2005). Ethnic differences in perceptions of peer pressure and substance use. Presented at the annual meeting of the *American Psychological Association* in Washington, D.C.
- Chiauzzi, E., Green, T., Lord, S., Thum, C., & **Goldstein, M.** (2005). My Student Body: A high risk drinking prevention website for college students. *Journal of American College Health*, 53(6); 263-274.