

Deborah A. Fields

Emma Eccles Jones College of Education and Human Services
Instructional Technology & Learning Sciences
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Education

- Ph.D. University of California, Los Angeles** 2010
Psychological Studies in Education
Graduate School of Education & Information Studies
Thesis Title: *Trajectories of Identification Across Social Spaces: Intersections Between Home, School, and Everyday Settings*
Dissertation Committee: Noel Enyedy (chair), Frederick Erickson, Sharon Traweek, Kris Gutiérrez (University of Colorado-Boulder) & Yasmin Kafai (University of Pennsylvania)
- M.S. University of Wisconsin-Madison** 2002
Curriculum and Instruction: Multicultural Education
Thesis Title: *An Exploratory Study of Advanced Astronomy Camp*
Master Thesis Committee: Julia Koza (chair), Mary L. Gomez, and James Stewart
- B.A. Wheaton College** 1998
Wheaton, IL
Christian Education & Ministry, Biblical & Theological Studies
Summa cum laude

Academic Positions Held

- Temporary Assistant Professor of Instructional Technologies and Learning Sciences**
Emma Eccles Jones College of Education & Human Services, 2015-present
Utah State University, Logan, Utah
- Research Scientist & Consultant** 2015-present
University of Pennsylvania, Philadelphia PA
Preparing the next generation of computational thinkers (NSF: #1027736)
RAPID: Collaborative Research: Learning about Infectious Diseases through Online Participation in a Virtual Epidemic (NSF: #1506724)
- Assistant Professor of Instructional Technologies and Learning Sciences** 2012-2015
Emma Eccles Jones College of Education & Human Services,
Utah State University, Logan, Utah
- Postdoctoral Research Fellow** 2010-2012
University of Pennsylvania, Philadelphia PA
Preparing the next generation of computational thinkers (NSF: #1027736)
Computational textiles as materials for creativity (NSF: #0855868)
- Graduate Student Researcher**
University of California, Los Angeles, CA

Investigating science simulations in virtual worlds (<i>NSF: #0411814; MacArthur Foundation</i>)	2006-2009
Community Mapping Project (<i>NAE/Spencer Postdoctoral Fellowship</i>)	2006-2008
Center for Embedded Networked Sensing Education Infrastructure (<i>NSF</i>)	2005-2006

Program Evaluator 2004-2005
 Program Evaluation and Research Branch, Los Angeles Unified School District

Fellowships and Awards

<i>Journal of the Learning Sciences</i> Early Career Reviewer of the Year	2015
Co-author on Best Student Paper for Media Culture & Curriculum SIG at AERA	2013
Early Career Workshop: International Conference of Computer Supported Collaborative Learning, Travel Fellowship	2013
Learning Analytics Summer Institute: Travel Fellowship	2013
CONNECT Fellowship (UCLA Lab School)	2009
UCLA Graduate Research Mentorship Fellowship	2008-2009
Best Student Paper Award: International Conference of Computer Supported Collaborative Learning	2007
UCLA Graduate Summer Research Mentorship Fellowship	2007
Wheaton College Scholastic Honor Society	<i>inducted</i> 1998
Baker Book House Award, Biblical & Theological Studies	1998
Presidential Award, Wheaton College	1994-1998

Research Support

National Science Foundation (#1319938, \$549,999) 2013-2016
Macro Data for Micro Learning: Developing FUN! for Automated Assessment of Computational Thinking in Scratch (\$549,999). Two-year Cyberlearning EXP grant between Deborah Fields (PI) and Taylor Martin (co-PI). This project is designed to advance understanding of personalized learning in interest-driven technology-enhanced environments by capitalizing on the capability of automated assessments to make that learning visible. Specifically we study kids' computer programming in the widely used Scratch environment, analyzing learning, personal trajectories, and trends in kids' programming.

Social Sciences and Humanities Research Council of Canada (\$164,962 + \$103,000 in cash/in kind contributions) 2013-2017
Children's Do-It-Yourself-Media: Insight and Connection (\$34,451 CAD). Partnership grant between the University of Toronto (Sara Grimes, PI) and USU (Deborah Fields, co-PI). The partnership draws together academics, media professionals, policy makers, child-advocacy groups, non-profit organizations working in children's media, as well as parents, educators and children themselves, in order to identify the key opportunities and challenges associated with children's online DIY media production. Additional partners with \$103,000 in cash/in kind contributions include the Joan Ganz Cooney Center at Sesame Workshop, Common Sense Media, Media Smarts, Zinc Roe Inc., Storybird Inc., Alyssa Antle (Simon Frasier University), Toronto International Film Festival.

Wyoming Department of Education (\$235,000) 2013-2015
Teton County School District Math Science Partnership STEM/Digital Fabrication Lab Project (\$80,000). Financial support for providing and researching the results of professional

development led by USU faculty Deborah Fields (co-PI) and Taylor Martin (PI) for Teton County School District faculty and staff to improve instructional practices and increase student achievement in the STEM fields through creative expression with modern FabLab technology.

USU College of Education, Dean's Office (\$8,000)

2013-2015

Maker Camp and E-textiles in the Classroom. Financial support from the Dean's office, (College of Education, USU) for creating and researching a week-long Maker Camp for non-dominant youth (\$6000) in Logan, UT and for travel funding (\$2000, shared with Dr. Colby Tofel-Grehl) to develop and study a quasi-experimental study implementing e-textile design in middle school science classes in Jackson, WY.

Theses

Fields, D. A. (2010). *Trajectories of identification across social spaces: Intersections between home, school, and everyday settings.* Unpublished dissertation. University of California, Los Angeles.

Fields, D. A. (2002). *An exploratory study of advanced astronomy camp.* Unpublished master's thesis, University of Wisconsin-Madison.

Books & Reports *Refereed*

Kafai, Y. B. & **Fields, D. A.** (2013). *Connected Play: Tweens in a Virtual World.* Cambridge, MA: MIT Press.

Martin, H. T., **Fields, D. A.**, Brasiel, S., Strommer, A. (2013). Developing an Understanding of Design Thinking and Improving Teacher Pedagogical Content Knowledge in Science and Mathematics. Report provided to Teton County School District.

Grimes, S. & **Fields, D.** (2012). *Kids online: A new research agenda for understanding social networking forums.* New York. The Joan Ganz Cooney Center at Sesame Workshop. Available online at <http://www.joanganzcooneycenter.org/reports-38.html>.

Journal Articles *Refereed* [* signifies graduate student, †signifies undergraduate student]

Tofel-Grehl, C. & **Fields, D. A.** (2015). Sewing up science: A craft based approach for teaching electricity and circuits. *The Science Teacher.*

Fields, D. A., Vasudevan, V.*, Kafai, Y. B. (2015). The programmers' collective: Fostering participatory culture by making music videos in a high school Scratch coding workshop. Special issue of *Interactive Learning Environments*, 23(5), 1-21.

Grimes, S. M & **Fields, D. A.** (2015). Children's media making, but not sharing: The potential and limitations of child-specific DIY media websites for a more inclusive media landscape. Special Issue of *Media International Australia*, 154, 112-122.

Kafai, Y. B. **Fields, D. A.**, & Searle, K. A.* (2014). Electronic textiles as disruptive designs in schools: Supporting and challenging maker activities for learning. *Harvard Educational Review*, 84(4), 532-556.

Fields, D. A., Magnifico, A. M., Lammers, J. C., & Curwood, J. S. (2014). DIY media creation. *Journal of Adolescent and Adult Literacy*, 58(1), 19-24.

- Kafai, Y. B., Lee, E., Searle, K. S.*, **Fields, D. A.**, Kaplan, E.†, & Lui, D.* (2014). A crafts-oriented approach to computing in high school. *ACM Transactions of Computing Education*, 14(1), 1-20.
- Fields, D. A.** & Enyedy, N. (2013). Picking up the mantle of “expert”: Assigned roles, assertion of identity, and peer recognition within a programming class. *Mind, Culture, and Activity: An International Journal*, 20(2), 113-131.
- *Featured in NSF-sponsored Research to Practice Brief: www.research2practice.info
- Kafai, Y. B., **Fields, D. A.**, Roque, R.*, Burke, W. Q.*, & Monroy-Hernández, A.* (2012). Collaborative agency in youth online and offline creative production in Scratch. *Research and Practice in Technology Enhanced Learning*, 7(2), 63-87.
- Enyedy, N., Danish, J. & **Fields, D. A.** (2011). Negotiating the “relevant” in culturally relevant mathematics. *Canadian Journal of Mathematics*, 11(3), 273-291.
- *One of the top-downloaded papers in the *Canadian Journal of Mathematics* in 2011-12.
- Fields, D. A.** & Kafai, Y. B. (2010). Knowing and throwing mudballs, hearts, pies, and flowers: A connective ethnography of gaming practices. *Games and Culture*, (Special Issue), 5(1), 88-115.
- Fields, D. A.** & Kafai, Y. B. (2010). Stealing from Grandma or generating knowledge? Contestations and effects of cheating in Whyville. *Games and Culture*, (Special Issue), 5(1), 64-87.
- Kafai, Y. B., **Fields, D.A.**, & Cook, M. S. (2010). Your second selves: Avatar designs and identity play. *Games and Culture*, (Special Issue) 5(1), 23-42.
- Kafai, Y. B., **Fields, D. A.** & Searle, K. A.* (2010). Multi-modal investigations of relationship play in virtual worlds. *International Journal of Gaming and Computer-Mediated Simulations*, 2(1), 40-48.
- Kafai, Y. B., **Fields, D. A.**, & Burke, W. Q.* (2010). Entering the clubhouse: Case studies of young programmers joining the online Scratch communities. *Journal of Organizational and End-User Computing*, 22(2), 21-35.
- Kafai, Y. B., Cook, M. S. & **Fields, D.A.** (2010). “Blacks deserve bodies too!” Design and discussion about diversity and race in a tween virtual world. *Games and Culture*, (Special Issue), 5(1), 43-63.
- Kafai, Y. B. & **Fields, D. A.** (2009). Cheating in virtual worlds: Transgressive designs for learning. *On Horizon*, (Special Issue), 17(1), 12-20.
- Fields, D. A.** & Kafai, Y. B. (2009). A connective ethnography of peer knowledge sharing and diffusion in a tween virtual world. *International Journal of Computer Supported Collaborative Learning*, 4(1), 47-68.
- Fields, D. A.** (2009). What do students gain from a week at science camp? Youth perceptions and the design of an immersive research-oriented astronomy camp. *International Journal of Science Education* 31(2), 151-171.

Book Chapters [* signifies graduate student, †signifies undergraduate student]

- Fields, D. A.** & Lee, V. R. (in press). Craft Technologies 101: Bringing making to higher education. Invited book chapter. In Peppler, K., Halverson, E., & Kafai, Y. B. (Eds). *Makeology*. New York, NY: Routledge.
- Searle, K. A.,* **Fields, D. A.**, & Kafai, Y. B. (in press). Crafting high-low tech identities with electronic textiles: Complicating relationships between gender and technology. Invited book chapter. In Peppler, K., Halverson, E., & Kafai, Y. B. (Eds). *Makeology* New York, NY: Routledge.
- Fields, D. A.** (in press). Camps. In K. Peppler (Ed), *SAGE Encyclopedia of Out of School Learning*. New York, NY: Sage.
- Fields, D. A.** & Searle, K. A. (in press). Chatrooms. In K. Peppler (Ed), *SAGE Encyclopedia of Out of School Learning*. New York, NY: Sage.
- Fields, D. A.**, Kafai, Y. B., & Giang, M. T. (in press). Participation by choice: A transitional analysis of patterns in social networking and coding contributions in the online Scratch community. In U. Cress, H. Jeong, & J. Moskaliuk (Eds.) *Mass Collaboration and Education*, New York, NY: Springer.
- Howell, J., Tofel-Grehl, C., **Fields, D. A.**, & Ducamp, G. J.* (in press). A case study of the impact of e-textiles in motivating Latino students in 8th grade science. Invited book chapter. In Williams, C. (Ed.). *Teacher Pioneers: Visions from the Edge of the Map*.
- Kafai, Y. B., **Fields, D. A.**, & Searle, K.* (2013). Making the connections visible: Crafting, circuitry, and coding in high school e-textile workshops. In Buechley, L., Peppler, K., Eisenberg, M. & Kafai, Y. (Eds). *Textile Messages: Dispatches from the World of E-Textiles and Education*, New York: Peter Lang, 85-94.
- Fields, D. A.** & Kafai, Y. B. (2013). Creative play in virtual worlds: Avatar and cheat designs and performances. In C. Mouza and N. Lavigne (Eds.) *Emerging Technologies for the Classroom: A Learning Sciences Perspective*. New York: Springer, 239-252.
- Kafai, Y. B. & **Fields, D. A.** (2013). Collaboration in informal learning environments: Access and participation in youth virtual communities. In C. Hmelo-Silver, A. O'Donnell, C. Chan, & C. Chinn (Eds.), *International Handbook of Collaborative Learning*. New York: Taylor & Francis, 480-494.
- Fields, D. A.** & Kafai, Y. B. (2012). Navigating life as an avatar: The shifting identities-in-practice of a girl player in a tween virtual world. In C. C. Ching & B. Foley (Eds.) *Constructing the self in a digital world*, Cambridge, UK: Cambridge University Press, 222-250.
- Giang, M. T., Kafai, Y. B., **Fields, D. A.**, & Searle, K. A.* (2012). Social interactions in virtual worlds: Patterns and participation of tween relationship play. In J. Fromme & A. Unger (Eds.), *Computer games and new media cultures: A handbook on the state and perspectives of digital games studies*. New York: Springer Verlag, 543-556.
- Kafai, Y., Feldon, D., **Fields, D. A.**, Giang, M., & Quintero, M. (2007). Life in the time of Whyfox: A virtual epidemic as a community event. In C. Steinfeld, B. Pentland, M. Ackerman, & N. Contractor (Eds.) *Communities and Technologies*, Berlin: Spring Verlag, 171-190.

Editorial Reviews and Columns

- Kafai, Y. B. & **Fields, D. A.** (2014). Connected play: Revealing the hidden lives of tweens online. *Computers in Entertainment*. <http://cie.acm.org/articles/connected-play-revealing-hidden-lives-tweens-online/>
- Fields, D. A.** (2013). Arguing against the underpinnings of Piaget's theory of development: A review of Erneling's *Towards Discursive Education: Philosophy, Technology, and Modern Education*. *Theory and Psychology*, 23 (6), pp. 855-856.

In Preparation

- Pantic, K.*, **Fields, D. A.**, & Quirke, L. (Submitted). Studying situated learning in a constructionist programming camp: A multimethod microgenetic analysis of one girl's learning pathway
- Chapman, G., Goode, J., Kafai, Y. B., **Fields, D. A.**, Nakamura, T., Litts, B., Margolis, J. (In preparation), E-textiles unit for the Exploring Computer Science curriculum.
- Lee, V. R. & **Fields, D. A.** (In preparation). Investigating undergraduate student learning in a craft technologies course.
- Peppler, K. A., Shively, K.*, **Fields, D. A.**, Kafai, Y. B., & Searle, K. A.* (In preparation). Understanding creativity in digital media and learning: Youth and expert assessment of e-textile designs.

Conference Proceedings *Refereed* [* signifies graduate student, †signifies undergraduate student]

- Fields, D. A.**, Quirk, L., Amely, J.* & Maughan, J. (2016). Combining “big data” and “thick data” analyses for understanding youth learning trajectories in a summer coding camp. In *Proceedings of the 47th ACM technical symposium on Computer science education (SIGCSE '16)*. ACM, New York, NY, USA.
- Fields, D. A.**, Quirk, L., Horton, T., Velasquez, X.*, Amely, J.* & Pantic, K.* (2016). Working toward equity in a constructionist Scratch camp: Lessons learned in applying a studio design model. In *Proceedings of Constructionism*, Bangkok, Thailand.
- Fields, D. A.**, Quirk, L. & Amely, J.* (2015). Measuring learning in an open-ended, constructionist-based programming camp: Developing a set of quantitative measures from qualitative analysis. In Turbak, F. (Ed.), *2015 IEEE Blocks and Beyond Workshop* 15-17. <http://cs.wellesley.edu/~blocks-and-beyond/proceedings/pdf-proceedings/p015-fields.pdf>
- Velasquez, X.* & **Fields, D. A.** (2015). When good games promote good programming: Scratch Camp FTW. In Ochsner, A. (Ed.) *Proceedings of the Annual Games+Learning+Society Conference (GLS11)*. Madison, WI.
- Fields, D. A.**, Pantic, K.*, Kafai, Y. B. (2015). “I have a tutorial for this”: The language of online peer support in the Scratch programming community. In *Proceedings of Interaction Design and Children*, (IDC '15), 229-238. ACM, New York, NY, USA.
- Fields, D. A.**, Giang, M. T., Kafai, Y. B. (2014). Programming in the wild: Patterns of computational participation in the Scratch online social networking forum. In *Proceedings of the 9th Workshop in Primary and Secondary Computing Education (WiPSCE '14)*. ACM, New York, NY, USA, 2-11. <http://doi.acm.org/10.1145/2670757.2670768>
- Fields, D. A.**, Kafai, Y. B., Strommer, A.*, Wolf, E.† & Seiner, B.† (2014). Interactive storytelling for promoting creative expression in media and coding in youth online

- collaboratives in Scratch. In *Proceedings of Constructionism*, Vienna, Austria. http://constructionism2014.ifs.tuwien.ac.at/papers/3.2_2-8540.pdf
- Searle, K.*, **Fields, D. A.**, Lui, D.* & Kafai, Y. B. (2014). Diversifying high school students' views about computing with electronic textiles. In *Proceedings of International Computing Education Research*, ACM, New York, NY, 75-82.
- Martin, T., Brasiel, S., Graham, D.*, Smith, S.*, Gurko, K., & **Fields, D. A.** (2014). FabLab professional development: Changes in teacher and student STEM content knowledge. *Proceedings of the 4th Annual FabLearn Conference*.
- Kafai, Y. B., Rusk, N., Burke, Q., Mote, C., Pepler, K., **Fields, D. A.**, Roque, R.*, Telhan, O., Elnich, K., & Magnifico, A. M. (2014). Motivating and broadening participation: Competitions, contexts, challenges, and circles for supporting STEM learning. In Polman, J. L., Kyza, E. A., O'Neill, D. K., Tabak, I., Penuel, W. R., Jurow, A. S., O'Connor, K., Lee, T., and D'Amico, L. (Eds.). *Learning and Becoming in Practice: The International Conference of the Learning Sciences (ICLS) 2014, Volume 3*. Boulder, CO: International Society of the Learning Sciences, pp. 1219-1228.
- Fields, D. A.**, Vasudevan, V.* & Kafai, Y. B. (2014). The programmers' collective: Connecting collaboration and computation in a high school Scratch mashup coding workshop. In Polman, J. L., Kyza, E. A., O'Neill, D. K., Tabak, I., Penuel, W. R., Jurow, A. S., O'Connor, K., Lee, T., and D'Amico, L. (Eds.). (2014). *Learning and Becoming in Practice: The International Conference of the Learning Sciences (ICLS) 2014, Volume 3*. Boulder, CO: International Society of the Learning Sciences, pp. 855-862.
- Fields, D. A.** & King, W. L.* (2014). "So, I think I'm a programmer now." Developing connected learning for adults in a university craft technologies course. In Polman, J. L., Kyza, E. A., O'Neill, D. K., Tabak, I., Penuel, W. R., Jurow, A. S., O'Connor, K., Lee, T., and D'Amico, L. (Eds.). *Learning and Becoming in Practice: The International Conference of the Learning Sciences (ICLS) 2014, Volume 3*. Boulder, CO: International Society of the Learning Sciences, pp. 927-936.
- Forsgren Velasquez, N., **Fields, D. A.**, Olsen, D., Martin, H. T., Strommer, A.*, Sheperd, M. C.†, & Kafai, Y. B. (2013). Novice programmers talking about projects: What automated text analysis reveals about online Scratch users' comments. In *Proceedings of the 2014 47th Hawaii International Conference on System Sciences (HICSS '14)*, IEEE Computer Society, Washington, DC, 1635-1644.
- *Nominated for best paper in HICSS 2014; Best paper in mini track.
- Lee, V. R. & **Fields, D. A.** (2013). A clinical interview for assessing student learning in a university-level craft technology course. In the Proceedings of FabLearn, Palo Alto, CA. <http://fablearn.stanford.edu/2013/wp-content/uploads/A-Clinical-Interview-for-Assessing-Student-Learning-in-a-University-Level-Craft-Technology-Course.pdf>
- Grimes, S. M. & **Fields, D. A.** (2013). Broadening the Scope, Dispelling the Myths: Younger Children and Online Social Networking—Towards a More Inclusive Research Agenda. *Proceedings of the annual conference of the International Communication Association*, London, UK.
- Fields, D. A.**, Giang, M. & Kafai, Y. B. (2013). Understanding collaborative practices in the Scratch online community: Patterns of participation among youth designers. In N. Rummel, M. Kapur, M. Nathan, & S. Puntambekar (Eds), *To see the world and a grain of sand: Learning across levels of space, time, and scale: CSCL 2013 Conference Proceedings*,

Volume 1, Full Papers & Symposia. International Society of the Learning Sciences: Madison, WI, 200-207.

- Fields, D. A.** (2013). Researching productive connective sites where interest, learning, and identity intersect. In N. Rummel, M. Kapur, M. Nathan, & S. Puntambekar (Eds), *To see the world and a grain of sand: Learning across levels of space, time, and scale: CSCL 2013 Conference Proceedings, Volume 2, Short Papers, Panels, Posters, Demos & Community Events*. International Society of the Learning Sciences: Madison, WI, 491-492.
- DuMont, M.* & **Fields, D. A.** (2013). Hybrid shmybrid: Using collaborative structure to understand the relationship between virtual and tangible elements of a computational craft. In N. Rummel, M. Kapur, M. Nathan, & S. Puntambekar (Eds), *To see the world and a grain of sand: Learning across levels of space, time, and scale: CSCL 2013 Conference Proceedings, Volume 2, Short Papers, Panels, Posters, Demos & Community Events*. International Society of the Learning Sciences: Madison, WI, 233-234.
- Fields, D. A.**, Grimes, S. M., Magnifico, A. Lammers, J. C., Gomez, K., & Curwood, J. S. (2013). What's next in studying online social networking? Future research directions for creative, DIY-based sites. *Proceedings of the Annual Conference 9.0 of Games + Learning + Society*, University of Wisconsin-Madison. <http://press.etc.cmu.edu/content/gls-90-conference-proceedings>
- Kafai, Y. B., Searle, K. A.*, Kaplan, E.†, **Fields, D. A.**, Lee, E., & Lui, D.* (2013). Cupcake cushions, Scooby Doo shirts, and soft boomboxes: E-textiles in high school to promote computational concepts, practices, and perceptions. In *Proceedings of the 44th ACM technical symposium on Computer science education (SIGCSE '13)*. ACM, New York, NY, USA, 311-316.
- Kafai, Y. B., Griffin, J., Burke, W. B.*, Slattery, M., **Fields, D. A.**, Powell, R., Grab, M., Davidson, S. B. & Sun, J. S. (2013). Broadening participation in and perceptions of computing through cascading mentoring: Implementing a CS community service learning course. In *Proceedings of the 44th ACM technical symposium on Computer science education (SIGCSE '13)*. ACM, New York, NY, USA, 101-106.
- Kafai, Y. B. & **Fields, D. A.** (2012). Connecting play: Understanding multimodal participation in virtual worlds. In *Proceedings of the 14th ACM international conference on Multimodal interaction (ICMI '12)*. ACM, New York, NY, USA, 265-272.
- Fields, D. A.**, Kafai, Y. B. & Searle, K.A.* (2012). Functional aesthetics for learning: Creative tensions in youth e-textiles designs. In van Aalst, J., Thompson, K., Jacobson, M.J., & Reimann, P. (Eds.), *The Future of Learning: Proceedings of the 10th International Conference of the Learning Sciences (ICLS 2012), Volume 1, Full Papers*. International Society of the Learning Sciences: Sydney, NSW, Australia, 196-203.
- Kafai, Y. B., **Fields, D. A.**, & Searle, K.A.* (2012). Making learning visible: Connecting crafts, circuitry & coding in e-textile designs. In van Aalst, J., Thompson, K., Jacobson, M.J., & Reimann, P. (Eds.), *The Future of Learning: Proceedings of the 10th International Conference of the Learning Sciences (ICLS 2012), Volume 1, Full Papers*. International Society of the Learning Sciences: Sydney, NSW, Australia, 188-195.
- Roque, R.*, Kafai, Y. B., & **Fields, D. A.** (2012). From tools to communities: Designs to support online creative collaboration in Scratch. In *Proceedings of the 11th International Conference on Interaction Design and Children (IDC '12)*, ACM, New York, NY, 220-223.

- Fields, D. A.**, Kafai, Y. B., Searle, K. A.* & Min, H. S.† (2012). Debuggems to assess student learning in e-textiles. *Proceedings of the 43rd ACM technical symposium on Computer Science Education*, p. 699.
- Kafai, Y. B., **Fields, D. A.**, & Burke, W. Q.* (2011). Collaborative agency in youth online creative production in Scratch. T. Hirashima et al. (Eds.) (2011). *Proceedings of the 19th International Conference on Computers in Education*. Chiang Mai, Thailand: Asia-Pacific Society for Computers in Education.
- Kafai, Y. B., Roque, R.*, **Fields, D. A.**, & Monroy-Hernandez, A.* (2011). Collaboration by choice: Youth online creative collabs in Scratch. T. Hirashima et al. (Eds.) (2011). *Proceedings of the 19th International Conference on Computers in Education*. Chiang Mai, Thailand: Asia-Pacific Society for Computers in Education.
- Kafai, Y. B. & **Fields, D. A.**, & Searle, K. A.* (2011). Everyday creativity in novice e-textile designs: Remixing as interpretive flexibility. *ACM Creativity & Cognition*, Atlanta, GA.
- Peppler, K. A., Glosson, D. A.*, Kafai, Y. B., **Fields, D. A.**, & Searle, K.A.*, (2011). Articulating creativity in a new domain: Expert insights from the field of e-textiles. In *Proceedings of the 8th ACM Conference on Creative and Cognition (C&C '11)*. ACM, New York, NY, 385-386.
- Fields, D. A.** & Kafai, Y. B. (2011). The role of different narratives in recognizing peer expertise in collaborative programming projects. In H. Spada, G. Stahl (Eds), N. Miyake, & N. Law (Eds), *Connecting computer-supported collaborative learning to policy and practices: CSCL11 community events proceedings*, International Society of the Learning Sciences, Hong Kong, China, 701-705.
- Fields, D. A.** & Kafai, Y. B. (2011). Crafting identities: E-Textile artifacts as mediators in high tech communities. In H. Spada, G. Stahl (Eds), N. Miyake, & N. Law (Eds), *Connecting computer-supported collaborative learning to policy and practices: CSCL11 community events proceedings, Vol. 2, Short Papers & Posters* International Society of the Learning Sciences, Hong Kong, China, 910-911.
- Ching, C. C., Evans, E., Faber, E., **Fields, D. A.**, Nasir, N. S. (2010). "Wherever you go, there you are:" Examining the development and integration of individual identity across multiple domains and contexts. In Gomez, K., Lyons, L., & Radinsky, J. (Eds.) *Learning in the Disciplines: Proceedings of the 9th International Conference of the Learning Sciences (ICLS 2010) - Volume 2, Short Papers, Symposia, and Selected Abstracts*. International Society of the Learning Sciences: Chicago IL, 69-76.
- Kafai, Y. B., Burke, W. Q., & **Fields, D. A.** (2009). What videogame making can teach us about access and ethics in participatory culture. In *Breaking new ground: Proceedings of the Digital Games Research Association (DIGRA)*, West London, United Kingdom: Brunel University.
- Kafai, Y. B., **Fields, D. A.**, Giang, M. T. (2009). Transgressive gender play: Profiles and portraits of girl players in a tween virtual world. In *Breaking new ground: Proceedings of the Digital Games Research Association (DIGRA)*, West London, United Kingdom: Brunel University.
- Kafai, Y. B., **Fields, D. A.**, & Searle, K. A. (2009). Valentine games: Anticipatory flirting and dating in a tween virtual world. In *Breaking new ground: Proceedings of the Digital Games Research Association (DIGRA)*, West London, United Kingdom: Brunel University.
- Fields, D. A.** & Kafai, Y. B. (2009). From outcast to expert: Identities as a conceptual lens for studying learning through design across spaces. In A. Dimitracopoulou C. O'Malley, D. Suthers, P. Reimann (Eds.) *Computer supported collaborative learning practices: CSCL09*

community events proceedings, Rhodes, Greece: International Society of the Learning Sciences, 54-55.

- Fields, D. A.** (2009). Understanding identities across social spaces. In A. Dimitracopoulou C. O'Malley, D. Suthers, P. Reimann (Eds.) *Computer supported collaborative learning practices: CSCL09 community events proceedings*, Rhodes, Greece: International Society of the Learning Sciences, 249-251.
- Fields, D. A. & Kafai, Y. B.** (2008). Knowing and throwing mudballs, hearts, pies, and flowers: A connective ethnography of gaming practices. In V. Jonker, A. Lazonder, & C. Hoadley (Eds.) *Proceedings of the Eighth International Conference of the Learning Sciences*, Utrecht, Netherlands: University of Utrecht, Vol. I, 232-239.
- Fields, D. A. & Enyedy, N. D.** (2008). Culturally relevant mathematics: Students' cultural engagement with statistics. In V. Jonker, A. Lazonder, & C. Hoadley (Eds.) *Proceedings of the Eighth International Conference of the Learning Sciences*, Utrecht, Netherlands: University of Utrecht.
- Fields, D. A. & Kafai, Y. B.** (2007). Stealing from Grandma or generating knowledge: Contestations and effects of cheats in a tween virtual world. In Akira Baba (Ed.) *Situated Play: Proceedings of the Digital Games Research Association (DIGRA)*, Tokyo, Japan: The University of Tokyo, 194-202.
- Kafai, Y. B., **Fields, D.A.**, & Cook, M. S. (2007). Your second selves: Resources, agency and constraints in avatar design in a tween online world. In Akira Baba (Ed.) *Situated Play: Proceedings of the Digital Games Research Association (DIGRA)*, Tokyo, Japan: The University of Tokyo, 31-39.
- Kafai, Y. B., Cook, M. S., & **Fields, D. A.** (2007). "Blacks deserve bodies too!" Design and discussion about diversity and race in a tween online world. In Akira Baba (Ed.) *Situated Play: Proceedings of the Digital Games Research Association (DIGRA)*, Tokyo, Japan: The University of Tokyo, 269-277.
- Fields, D. A. & Kafai, Y. B.** (2007). Tracing insider knowledge across time and spaces: A connective ethnography in a teen online game world. In C. Chinn, G. Erkins, and S. Puntambekar, (Eds.) *Proceedings of the Seventh Conference of Computer Supported Collaborative Learning*, New Brunswick, NJ: Rutgers University, 196-205.
- Fields, D. A. & Kafai, Y. B.** (2007). Illegitimate practices as legitimate participation: Game cheat sites in a tween virtual community. In C. Chinn, G. Erkins, and S. Puntambekar, (Eds.) *Proceedings of the Seventh Conference of Computer Supported Collaborative Learning*, New Brunswick, NJ: Rutgers University, 193-195.
- Fields, D. A.** (2006). Identities and astronomy camp: How individual campers make meaning of science experiences. In S. A. Barab, K. E. Hay & D. T. Hickey (Eds.), *Proceedings of the Seventh International Conference of the Learning Sciences*. Mahwah: NJ, 920-921.
- Fields, D. A.** (2006). What do students gain from a week at science camp? Youth perceptions and the design of an immersive research-oriented astronomy camp. *Proceedings of the National Association of Research in Science Teaching Conference, CD-ROM*.

Conference & Invited Presentations *National & International* [*signifies graduate student, †signifies undergraduate student]

- Fields, D. A.,** Quirk, L. & Amely, J.* (2015, October). Structured constructionism? Applying a studio design model to Scratch Camps to provide rigor and equity. Presented at the *2015 IEEE Blocks and Beyond Workshop*, Atlanta, Georgia.
- Gu, J.*, Tofel-Grehl, C. & **Fields, D. A.** (2015, September). Sewing electronics in class: Improving middle school students' science learning. Presentation at the Making Innovation Conference, Logan, UT.
- Fields, D. A.** (2015, August). Digging into research: Interest and identity in STEM. Invited panel presenter in after school webinar hosted by Relating Research to Practice, the Exploratorium, and the Afterschool Alliance. <http://afterschoolalliance.org/webinar/archives.cfm>
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- Fields, D. A.** (2015, May). Connected play: Mischievous cheating for serious learning. Invited keynote presentation, CALICO Conference, Boulder, CO.
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- Fields, D. A.** (2015, February). Curious origins of fashion and technology. Guest presentations at The Walker School (middle school assembly, upper elementary school assembly, select high school classes, and two half-day electronic-textiles workshops), Marietta, GA.
- Fields, D. A.,** & Grimes, S. M. (2015, June). Making but not sharing: The Potential and Limits of DIY Websites for Children. Presentation at the annual Digital Media and Learning conference, Los Angeles, CA.
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- Fields, D. A.** (2014, October). Tween activism in a virtual world. TEDxUSU invited talk. Utah State University, Logan, UT. <https://www.youtube.com/watch?v=-S0basyU4ec>
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- Fields, D. A.** (2014, October). Connected play: Mischievous cheating for serious gaming. Invited panel presentation at Digital Literacies and Beyond the L2 Classroom: A Hybrid Symposium of Research and Practice. Tucson, Arizona.
- Fields, D. A.** (2014, October). Connected Play: Virtual worlds, social media, and kids. Invited presentation for the College of Education, University of Arizona. Tucson, AZ.
- Fields, D. A.** (2014, October). Research methods and science learning in a virtual world. Invited classroom presentation at the University of Arizona.
- Fields, D. A.** (2014, October). "So, I think I'm a programmer now." Developing connected learning for adults in a university craft technologies course. Invited presentation at Center for Games and Impact, Arizona State University. Tempe, Arizona.
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- Kafai, Y. B. & **Fields, D. A.** (2014, June). Connected play: Mischievous cheating for serious gaming. Invited **keynote** presentation at the combined NSF Cyberlearning Summit and the Playful Learning Summit (at the Games + Learning + Society conference). [see archive: <http://learningtimesevents.org/circl/>]
- https://squirrel.adobeconnect.com/_a751959191/p2v6krkfydb/?launcher=false&fcsContent=true&pbMode=normal
-
- Fields, D. A.** (2014, June). Craft technologies in practice. Invited presentation. Practitioners panel: Games in Libraries, Games + Learning + Society Conference 10.0, Madison, WI.
- Fields, D. A.** (2014, June). Craft Technologies 101. Demo presented at the 2014 Cyberlearning Summer, Center for Innovative Research on Cyberlearning (CIRCL), Madison, WI.
- Martin, H. T. & **Fields, D. A.** (2014, June). Macro data for micro learning. Poster presented at the 2014 Cyberlearning Summit, Center for Innovative Research on Cyberlearning (CIRCL), Madison, WI.

- Grimes, S. M & **Fields, D. A.** (2014, April). Kids DIY Media Workshop. Invited workshop presented at the annual Toronto International Film Festival for Kids Industry Conference. Toronto, ON, Canada.
- Grimes, S. M, **Fields, D. A.**, Krogh, J., Alspach, B. & Kleeman, D. (2014, April). Kids DIY Media. Invited *keynote panel* presentation at the annual Toronto International Film Festival for Kids Industry Conference. Toronto, ON, Canada.
- Fields, D. A.** (2014, April). Designing artifacts and environments for learning. Invited guest lecture in the Design of Learning Environments, doctoral course in the School of Education, University of Delaware.
- Fields, D. A.** (2014, April). Using qualitative methods to research online communities. Invited workshop panel presentation at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- Fields, D. A.**, Braziel, S. & Martin, T. (2014, April). Make first, teach second? Tensions amidst implementing a FabLab at a high school. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- King, W. L.*, **Fields, D. A.** (2014, April). Designing for connected learning in a university course: Crafting with e-textiles. Poster presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- Kafai, Y. B., **Fields, D. A.** (2014, April). Connected play: Making visible trajectories of participation. Paper presented at the annual meeting of the American Educational Research Association, Philadelphia, PA.
- Fields, D. A.**, Giang, M. T., & Kafai, Y. B. (2014, March). Broad trends in scratch.mit.edu. Invited presentation at the Scratch Data Summit. MIT Media Lab, Cambridge, MA.
- King, W. L.* & **Fields, D. A.** (2014, March). Designing for connected learning in a university course: Crafting with e-textiles. Poster presented at the annual conference of Digital Media & Learning. Boston, MA.
- Fields, D. A.** (2014, February). Engaging Students at the Intersections of Learning, Interest, and Identification: An Ecological View of Design- and Inquiry-Based Education. Invited keynote address at the Korean Association of Science Education Conference. Daegu, South Korea.
- Grimes, S. M., **Fields, D. A.**, Quirke, L.*, Novak, S.*, MacDonald, A.* (February, 2014). The importance of sharing in kids' online DIY media: Research background, educational implications, and policy implication. Hosted workshop on Kids DIY Media. University of Toronto, Toronto, Canada.
- Fields, D. A.** (2014, January). E-textiles: Issues of Gender, Aesthetics, Culture & Learning. Invited guest lecture for course on Tangible and Embodied Technologies: Supporting New Forms of Personal Activity and Social Interaction. University of Toronto, Canada.
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- Fields, D. A.** (2013, September). Cheating, Gaming, and Kids' Online Communities. Invited guest lecture for MOOC course on Coursera by Constance Steinkuehler & Kurt Squire. 10,000 estimated participants. Madison, WI.
<https://uwmadison.app.box.com/s/b9ks4vixoi41kuq2358c>
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- Bequette, M., Brah, L., **Fields, D. A.**, Halverson, E., Kafai, Y., Litts, B., Owens, T., Peppler, K., Santo, R., & Sheridan, K. (2013, June). The MAKE movement and connections to the CSCL community. Panel at the 10th *International Conference of Computer Supported Collaborative Learning (CSCL 2013)*. Madison, WI.

- Brahms, L., **Fields, D. A.**, Halverson, E., Kafai, Y. (2013, June). The MAKE movement and connections to the GLS community. Panel at the *Games + Learning + Society Conference (GLS 2013)*. Madison, WI.
- Fields, D. A.**, Kafai, Y. B., Strommer, A.*, Wolf, E.†, Seiner, B.† (2013, April). Integrating arts and computation. Applying a studio arts model of learning to programming interactive stories in Scratch. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Searle, K. A.*, Kafai, Y. B. & **Fields, D. A.** (2013, April). Building new clubhouses: Opening doors to computing for girls and boys with electronic textiles. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA. *Winner of Best Student Paper Award, Media, Culture & Curriculum SIG.
- Peppler, K. A., **Fields, D. A.**, & Searle, K. A.* (2013, April). Judging creativity in new digital art domains. Paper presented at the Annual Meeting of the American Educational Research Association, San Francisco, CA.
- Fields, D. A.** (2013, April). Connective ethnographies. Invited presentation: Digital Ethnography, Arizona State University, Tempe, AZ.
- Fields, D. A.** (2012, October). Making meaningful artifacts. Invited presentation, Beyond Bits & Atoms Course, Stanford University, Palo Alto, CA.
- Fields, D. A.** (2012, October). Understanding Collaborative Practices in the Scratch Online Community: Patterns of Participation among Youth Designers. Invited presentation, Research Apprenticeship Course, University of California, Los Angeles, Los Angeles, CA.
- Grimes, S. & **Fields, D. A.** (2012, May). Kids and social networking: Opening up the field of play. Paper presented at the annual meeting of the Canadian Communication Association Conference, Waterloo, ON, Canada.
- Fields, D. A.**, Searle, K. A.*, & Kafai, Y. B. (2012, April). E-textile artifacts as laminates of personal, peer, and academic values. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, Canada.
- Roque, R.*, **Fields, D. A.**, Siegel, J. L.*, Low, D.*, & Kafai, Y. B. (2012, April). A clubhouse of their own: A role-playing game society in the Scratch programming community. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, Canada..
- Kafai, Y. B., **Fields, D. A.**, & Searle, K. A.* (2012, April). Making the connections: Crafting, circuitry, and coding in high school e-textile workshops. Paper presented at the annual meeting of the American Educational Research Association, Vancouver, BC, Canada..
- Searle, K. A.*, **Fields, D. A.**, & Kafai, Y. B. (2012, February). Considering influences on identity and learning in students' electronic design processes. Data analysis session presented at the 33rd Annual Ethnography in Education Research Forum, Philadelphia, PA.
- Siegel, J. L.*, Roque, R.*, Low, D.*, Kafai, Y. B., & **Fields, D. A.** (2012, February). Understanding the creative and collaborative literacy practices in the Scratch online community: A role playing case study. Paper presented at the 33rd Annual Ethnography in Education Research Forum, Philadelphia, PA.
- Grimes, S. & **Fields, D. A.** (2011, November). Broadening the scope and dispelling the myths. Invited keynote. Networked Participation Working Group, Cisco Systems & Joan Ganz Cooney Center, New York, NY.

- Searle, K.A.*, Kafai, Y. B. & **Fields, D. A.** (2011, November). *“Sewing is a girls’ sport”*: *Gendered identities and e-textiles design*. Paper presented the American Anthropological Association, Montreal, Canada.
- Fields, D. A.** (2011, September). Trajectories of identification across social spaces: Intersections between home, school and everyday spaces. Paper presented at the triannual meeting of the International Society of Cultural Activity Research, Rome, Italy.
- Cook, M. S. (chair), **Fields, D. A.** (organizer), Ching, C. C., Devane, B., & Wortham. S. (discussant), (2011, April). *Producing selves: The analytical utility of theorizing about identities across spaces, narratives, activities, and time*. Symposium presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Fields, D. A.** (chair), King, E. M. (organizer), Duncan, S., Lammers, J. C., Magnifico, A. M., & Steinkuehler, C. (discussant), (2011, April). *Developing 21st century writing practices in gaming-related affinity spaces*. Symposium presented at the annual meeting of the American Educational Research Association, New Orleans, LA.
- Fields, D. A.** (2010, August). Using Scratch in multiple settings: Productive intersections for learning and identification. Paper presented at the biannual Scratch@MIT conference, Cambridge, MA.
- Kafai, Y. B. (chair), Pepler, K., Resnick, M., **Fields, D. A.**, Brennan, K., Crenshaw, J., Parks, N. (2010, February). *Cultivating creativity and criticality in schools and after-school programs with Scratch*. Symposium conducted at the Digital Media and Learning Conference, San Diego, CA.
- Fields, D. A. (organizer)**, Kafai, Y. B. (chair), Jacobs, G., Steinkuehler, C., Duncan, S., King, E., Simkins, D., Fahser-Herro, D., Alagoz, E., Satwicz, T., Stevens, R., McCarthy, L., Giang, M., & Lam, E. (2009, April). *Tracing learning across, within, and between ‘real’ and ‘virtual’ worlds: A discussion of methods, ethics, and findings*. Symposium conducted at the annual meeting of the American Educational Research Association, San Diego, CA.
- Enyedy, N., Danish, J., **Fields, D. A.**, Kao, L., & Mukhopadhyay, S. (2009, April). *Negotiating the “relevant” in culturally relevant mathematics: The community mapping project*. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Kafai, Y. B. & **Fields, D. A.** (2009, April). The development of participatory competencies in virtual worlds. Paper presented at the annual meeting of the American Educational Research Association, San Diego, CA.
- Fields, D. A.** (2009). *From outcast to expert: Identities as an analytical lens to study learning across spaces*. Invited talk at the Digital Learning Lab colloquium, University of California, Irvine, April 3.
- Fields, D. A.** & Kafai, Y .B. (2008, September). *Projectile throwing as a tool to mediate relationships: A connective ethnography of a gaming practice in a tween virtual world*. Paper presented at the biannual conference of the International Society of Cultural and Activity Research (ISCAR), San Diego, CA.
- Fields, D. A.** & Kafai, Y. B. (2008, July). *How does someone become a Whyvillian? Issues of race, gender, and trading face parts in a case study of tween play in a virtual world*. Paper presented at the annual conference of Games + Learning + Society 4.0, Madison, WI.

- Peppler, K., Diazgranado, A., **Fields, D. A.**, & Kafai, Y. B. (2008, July). *Creating a culture of critical game designers in elementary classrooms and clubs*. Symposium presented at the annual conference of Games + Learning + Society 4.0, Madison, WI.
- Fields, D. A.** & Kafai, Y. B. (2008, April). *Race, gender, and trading face parts: A case study of identity construction in a tween virtual world*. Paper presented at the Cultures of Virtual Worlds Conference, Irvine, CA.
- Fields, D. A.**, Giang, M. & Kafai, Y. B. (2008, March). *Girl gamers in virtual worlds: Portraits of participation and positionings in a tween gaming club*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
- Cook, M. S., **Fields, D. A.** & Kafai, Y. B. (2008, March). “*Should I get this skin color for my head?*” *Conversations about race in a tween gaming club*. Paper presented at the annual meeting of the American Educational Research Association, New York, NY.
- Kafai, Y. B., Dede, C., Clarke, J., **Fields, D. A.**, Halverson, E., Satwicz, T. (2007, July). *Games in schools, clubs, homes and fandom communities: Opportunities and challenges in understanding learning and collaboration*. Plenary symposium conducted at the 8th Biannual Conference of Computer Supported Collaborative Learning, New Brunswick, NJ.
- Fields, D. A.** & Kafai, Y. B. (2007, July). *The development of distributed expertise across physical and virtual worlds in a teen gaming club*. Paper presented at the annual conference of Games + Learning + Society 3.0, Madison, WI.
- Kafai, Y. B., Consalvo, M., **Fields, D. A.**, Satsicz, T., & Zimmerman, E. (2007, July). *To cheat or not to cheat? Practices, purposes, and politics of cheating in online games*. Interactive symposium conducted at the third annual conference of Games + Learning + Society 3.0, Madison, WI.
- Kafai, Y. B., Cook, M. S., **Fields, D. A.** (2007, July). “*Why are Newbies White?*” *Discussing and Designing Race in a Tween Virtual World*. Paper presented at the third annual conference of Games + Learning + Society 3.0, Madison, WI.
- Fields, D. A.** (2007, April). *Learning by cheating? Investigating the science in cheat sites for informal educational multi-user virtual environments*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Kafai, Y. B., Feldon, D., **Fields, D. A.**, Giang, M., Peppler, K. & Quintero, M. (2007, April). *Where in the world is the science in Whyville? Informal science in a multi-user virtual community*. Symposium conducted at the annual meeting of the American Educational Research Association, Chicago, IL.
- Feldon, D., Kafai, Y., Giang, M., Quintero, M., & **Fields, D. A.**, (2007, April). *Mixed methods for mixed reality: Overcoming methodological challenges to understand user activity in a massive multi-user virtual environment*. Paper presented at the annual meeting of the American Educational Research Association, Chicago, IL.
- Cook, M. S., **Fields, D. A.**, & Sandoval, W. A. (2006, April). *Understanding Local Teacher Adaptations of a Complex Learning Environment*. In W. A. Sandoval (Chair), *Eyes on the Prize: Considering How Design Research Can Lead to Sustainable Innovation*. Symposium conducted at the annual meeting of the American Educational Research Association, San Francisco, CA.

University Courses Taught

Utah State University

ITLS 6540 (Online and Face-to Face sections): *Learning Theory* 2012-15
 Graduate course for masters and doctoral students surveying learning theories and their applications to pedagogy and instructional technology. Includes central ideas and challenges associated with learning, such as expertise, prior knowledge, motivation, transfer, and the role of social and cultural environments in learning.

ITLS 6870/7870: *Special Topics: Sociocultural Perspectives on Learning & Motivation*, 2014-15
 New graduate seminar course focusing on classic books regarding sociocultural perspectives on learning, motivation, interest, and education.

ITLS 6390 (Online only): *Technology and its Role in the Transformation of Education*, 2014-15
 Graduate course about the critical role of educational technology as one tool in the transformation of education. Focuses on both theoretical lens on the role of technology as well as practical implications for classroom teachers on integrating innovative technologies into their teaching.

ITLS 6870/7870 (Online): *Special Topics: Games & Learning* 2015
 Online graduate course surveying games and learning in research, design, and outreach.

ITLS 5285/6285: *Craft Technologies* 2013-14
 New blended undergraduate and graduate course about design and learning with new materials and computers, including conductive thread, fabric, yarn, Velcro, and sewable computers (e.g. LilyPad Arduino). A constructionist-driven course focusing on properties of novel materials, computing, crafting, electronics, and human-computer interactivity.

University of Pennsylvania

Education 552/545: *Video Games & Virtual Worlds* 2012, 2016
 Doctoral course. Drawing on work from the education, psychology, communication, and the growing field of game studies, we examine the history of video games, research on game play and players, conceptualizations from different disciplines of learning in playing and designing games, and possible outcomes. We also address issues of gender, race and violence that have been prominent in discussions about the impact of games. (Spring 2016, first online-only course at the Graduate School of Education).

Research Apprenticeship Course: 2010-2012
 Co-instructors Yasmin Kafai & Susan Yoon, Ph.D.

Doctoral course combining professional development with practical mentorship in research for doctoral students interested in learning sciences and technologies. Activities include practice presentations, data analysis, classic and recent literature readings, conference reviews, CV development, and constructive criticism of writing from the breadth of graduate student life (qualifying exams, proposals, dissertations, articles).

University of California, Los Angeles

Education 222B: *Participant Observation and Field Methods* 2008
 Special reader; Supervisor: Kris Gutierrez, Ph.D.

Graduate course, a lab course where students conduct a field project and learn key skills in participant-observation field methods (observation, recording, interviewing, role management, data storage, ethical considerations, grounded theory analysis), I led a small group of students in problem solving issues from field research, provided feedback and evaluation on field notes, analysis, and presentations, and gave short lectures on relevant methodological topics.

Education 191D: *Computers and Education* 2007, 2009
 Teaching Assistant; Supervisors: William Sandoval, Ph.D.; Noel Enyedy, Ph.D.
 Upper-division undergraduate & graduate course, covering issues of access and equity, effective technology integration, and support for student learning with digital technology, I co-developed the syllabus and taught half of the classes, graded essays, developed sessions in the computer lab, and introduced educational technologies researched and developed over the past decade.

Education 194B: *Culture, Gender, and Human Development* 2007-2008
 Teaching Assistant; Supervisor: Yasmin B. Kafai, Ed.D.
 Undergraduate course integrating learning theory, community service, and ethnographic data collection methods and analysis, I provided feedback on field notes and essays, lectured and led class discussions, and supervised student-mentor-researchers at a local computer clubhouse.

University of Wisconsin-Madison

C&I 375: *Practicum in Reading and Mathematics in the Elementary School* 2001-2002
 Teaching Assistant; Supervisor: Alice Udvari-Solnar, Ph.D.
 Undergraduate practicum class for 13-20 pre-service special educators designed to prepare them for teaching alongside general educators in inclusive classrooms. I co-designed the classes, assignments, and course reader; coordinated student pairings with teachers; graded assignments and lesson plans; and supervised student teaching.

Service

Reviewer

Editorial Board

Journal of the Learning Sciences 2014-2015

Journals – Ad Hoc Reviews

Journal of the Learning Sciences (2011, 1; 2012, 3; 2013, 3; 2014, 3; 2015, 1)

International Journal of Computer Supported Collaborative Learning (2014, 1)

Interactive Learning Environments (2014, 2)

Games & Culture (2011, 1; 2013, 1)

Ethics and Information Technology (2013, 1)

Technology, Knowledge & Learning (2013, 1; 2014, 1))

Early Childhood Development and Care (2007 Special Issue: Ecologies of Children's ICT Experiences)

Books

MIT Press 2015

Encyclopedia of Language and Education 2015

Conferences

Interaction Design and Children 2015

American Educational Research Association 2006-2014

Computer Supported Collaborative Learning (biannual conference) 2006-2014

International Conference of the Learning Sciences (biannual conference) 2006-2016

Games + Learning + Society 2013-2014

Grant Reviews

National Science Foundation Review Panels 2013-2016

University

Committees

Masters Admissions Committee (ITLS, USU)	2012-present
Working Group on Ph.D. Curriculum (ITLS department lead)	2013-2014
ITLS Search Committee	2013, 2014
ITLS Awards Committee	2014

Outreach

TEDxUSU Presenter: Tween Activism in a Virtual World	2014
Scratch Camps: Three weeklong day camps through 4H USU Extension	2014
Women in Engineering Outreach Workshop to High School Students	2014
Center for Women and Gender Workshop: Women in Computing	2013

Other

Division Representative: Graduate Student Association of Education, UCLA	2007-2008
Assistant for the <i>Beyond Barbie to Mortal Kombat</i> Conference: UCLA	2006
Co-coordinator of the Psychological Studies in Education Annual Colloquia	2005-2006

International*/National

*Games+Learning+Society Doctoral Consortium Leader	2015
*Advisory Board: NSF/Welcome Trust sponsored, <i>Affinity Spaces for Informal Science Learning: Developing a Research Agenda</i> . Twin Cities Public Television	2015-present
Program Committee: Beyond Blocks and Programming Workshop (VL/HCC)	2015
Conference Co-Chair: FabLearn	2013-2015
*Education & NAPLES Committees Member (ISLS)	2008-2014
*Workshop at the Toronto International Film Festival for Kids, Industry Conference: Kids DIY Media Best Practices	2014
Invited participant: Maker Movement Meeting, Children's Museum, Pittsburgh, PA	2014
*ICLS 2014 Program Committee	2013-14
Doctoral Consortium Panelist (Job searches); Games + Learning + Society conference	2013, 2014
External Advisory Board Member: University of Wisconsin-Whitewater Department of Education, Digital Media & Innovative Technologies for Learning Degree Program	2013-present
Program Co-Chair: Media, Culture & Curriculum SIG (AERA)	2011-2013
Staff volunteer: Games + Learning + Society Conference 4.0	2008
Morgridge Institute for Research Leaders' Summit, "Transforming Participation in Science with Technology:" Madison, WI	2012

Public

Astronomy Camp Counselor: Tucson, AZ	2002, 2004, 2008, 2011, 2015
Mendez High School Fashion Club Guest Advisor (E-Textiles)	2015
Engineering Extravaganza: Outreach to High School Girls (USU)	2014
Sustainability Fashion Show: Craft Technologies Intermission Show (FCES, USU)	2014
Advisor & Evaluator: Common Sense Media Educational Ratings	2013-2014

Science Fair Judge: Cache Valley	2013
Scratch Workshop for 3 rd -10 th graders: Utah State University	2012
Astronomy lecturer at elementary schools: Los Angeles, CA	2005-2006
Literacy tutor for St. Lawrence of Brindisi summer school: Los Angeles, CA	2005
Reading tutor at Marquette Elementary School: Madison, WI	2004
Math tutor for East High School, Alternative program: Madison, WI	2002-2003
St. Paul Chamber Orchestra educational liaison: Minneapolis & St. Paul, MN	2001

Professional Organizations

International Society of the Learning Sciences (Member: <i>Education Committee</i>)	2006-2014
International Society of Cultural Activity Research (ISCAR)	2006-2014
American Educational Research Association	2006-2014

Selected Press

CIRCL Center: <http://circlcenter.org/meet-deborah-fields/>

Utah State Today – University News: <https://www.usu.edu/today/?id=55214>

Utah State Today – University News: <https://www.usu.edu/today/?id=55152>

The Herald (Logan, UT). http://news.hjnews.com/allaccess/limitless-possibilities-usu-hosts-computer-programming-camp-for-kids/article_37d5f4e4-edd2-11e3-9779-001a4bcf887a.html

Utah State Today – University News. <http://www.usu.edu/ust/index.cfm?article=53872>

University of Toronto News: <http://news.utoronto.ca/tiff-kids-film-festival-and-industry-conference>

Christian Science Monitor: http://www.csmonitor.com/The-Culture/Family/Modern-Parenthood/2013/0131/Kids-online-Social-media-sites-can-help-develop-identity-study-says?cmpid=addthis_mailto#.UQyhkWpDwMI.mailto

CQ Researcher: <http://library.cqpress.com/cqresearcher>

Education Week:

http://blogs.edweek.org/edweek/DigitalEducation/2012/11/report_calls_for_more_research.html

School Library Journal: <http://www.thedigitalshift.com/2012/11/social-media/kids-online-report-young-childrens-social-networking-habits-harder-to-track-than-teens/>

Ed Surge: <https://www.edsurge.com/n/what-kids-are-doing-on-social-networking-platforms>

Kidzania Journal: <http://www.kidzania.com/kzjournal/eng/?p=1999>

Wired: <http://www.wired.com/geekdad/2012/11/kids-online/>