

## MICHAEL S. HORN

Northwestern University, Annenberg Hall  
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<http://tidal.northwestern.edu>

### APPOINTMENTS

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2010 – **Assistant Professor, Northwestern University** Evanston, IL  
Learning Sciences, School of Education and Social Policy  
Computer Science, McCormick School of Engineering and Applied Science

### EDUCATION

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2003 – 2009 **Tufts University** Medford, MA  
Ph.D. Computer Science Advisor: Robert J.K. Jacob

1993 – 1997 **Brown University** Providence, RI  
Bachelor of Science in Computer Science

### RESEARCH & PROFESSIONAL EXPERIENCE

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2011 – 2013 **Field Museum** Chicago  
*Research Associate*  
Department of Zoology, division of Fishes

2003 – 2009 **Tufts University, Department of Computer Science** Medford  
*Research Assistant*  
Created the Tern tangible programming language.

2008 – 2009 **Harvard University, Initiative in Innovative Computing** Cambridge  
*Fellow*  
Created multi-touch tabletop applications for science learning including an exhibit for the Harvard Museum of Natural History.

2007 – 2009 **Museum of Science, Boston** Boston  
*Exhibit Development*  
Created *Robot Park*, a tangible programming and robotics exhibit.

2006 & 2007 **iRobot Corporation** Bedford  
*Software Engineer*  
Developed control systems for prototype commercial robots.

1998 – 2003 **Classroom Connect** San Francisco  
*Senior Software Engineer & Project Lead*  
Developed web-based K-12 curriculum products.

1997 – 1998 **Actioneer, Inc.** San Francisco  
*Software Engineer*  
Developed productivity applications for handheld devices.

## ACADEMIC HONORS

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National Science Foundation CAREER award (2015)  
Best Paper Award, ACM CHI Conference (2015)  
Best Full Paper Award, Interaction Design and Children Conference (2014)  
Best Short Paper Award, Interaction Design and Children Conference (2014)  
Second Place Showcase Award, Games, Learning, and Society Conference (2014)  
Best Design Paper Award, Computer Supported Collaborative Learning Conference (2013)  
Best Paper Nomination, Computer Supported Collaborative Learning Conference (2013)  
Best Workshop Paper, Interaction Design and Children Conference (2013)  
Award for Outstanding Graduate Student Researcher, Tufts University (2009)  
GK-12 Fellow, National Science Foundation (2005-2007)  
Award for Outstanding Contribution to Engineering Education, Tufts University (Spring 2005)  
Gaston Scholarship for Academic Excellence in Computer Science, Brown University (Spring 1997)

## GRANTS

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\$587,982. Horn, M. CAREER: Blocks, Stickers, and Puzzles: Rethinking Computational Literacy Experiences in Informal Environments. National Science Foundation, 2015-2020.

\$996,985. Horn, M., Wilensky, U., Orton, K., & Jona, K. Broadening Participation in a Computational Future: Casting a Wide Net. Spencer Foundation, 2015-2018.

\$218,268. McGee & Horn EAGER: Collaborative Research: Designing Digital Rails to Foster Scientific Curiosity around Museum Collections. National Science Foundation, 2015-2016.

\$599,849. Orton, K., Horn, M., Jona, K., & Wilensky, U. Computational Thinking in STEM: A Whole-School Model for Broadening Participation and Education in Computing. National Science Foundation, 2014-2016.

\$687,043. Wilensky, U.J. & Horn, M.S. Learning evolution through model-based inquiry: Supporting agent-based modeling in STEM classrooms. National Science Foundation, 2012-2015.

\$998,711. Jona, K., Horn, M.S., Kalogera, V., Trouille, L., & Wilensky, U. *Casting a Wide Net: Applied Computational Thinking*. National Science Foundation, 2011-2014.

\$539,799. Horn, M.S. & Stevens, R. *Augmenting Household Technologies for Learning and Whole-family participation*. National Science Foundation, 2011-2015.

\$2,312,149. Shen, C., Diamond, J., Evans, E., & Horn, M. *Life on Earth*. National Science Foundation, 2010-2013.

\$42,732. Horn, M.S. & Stevens, R. *Household resource consumption and learning: Design and research*. Initiative for Sustainability and Energy at Northwestern, Faculty Booster Grant. 2010-2011.

\$10,000. Horn, M.S. *Interactive Sustainable Fishing Exhibit*. Dr. Scholl Foundation, 2015.

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## MUSEUM EXHIBITS AND BROADER IMPACTS

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2007 – 2012	<b>Robot Park Exhibit</b> Tangible computer programming and robotics	Museum of Science, Boston
2012 –	<b>Build-a-Tree Exhibit</b> Evolution puzzle game	California Academy of Sciences Musée national d'histoire naturelle, Luxembourg
2012 –	<b>Deep Tree Exhibit</b> A deep zoom into the tree of life	Field Museum Montreal Science Center California Academy of Sciences Oxford Museum of Natural History Harvard Museum of Natural History University of Nebraska State Museum
2016	<b>Frog Pond Exhibit</b> Tabletop computer programming	Computer History Museum
2015 –	<b>PBS NOVA Lab</b> Build the tree of life <a href="http://www.pbs.org/wgbh/nova/labs">http://www.pbs.org/wgbh/nova/labs</a>	WGBH, Boston

## JOURNAL ARTICLES

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- Horn, M.S., Stevens, R., Leong, Z.A., & Greenberg, M.D. (in press). Kids and thermostats: The role of youth in the management of household heating and cooling systems. *Journal of Child-Computer Interaction*.
- Horn, M.S., Phillips, B., Evans, E.M., Block, F., Diamond, J., & Shen, C. (accepted with revisions). Bringing Big Data to the Table: Learning Science in museums through interactive information visualization. *Journal of Research in Science Teaching*.
- Weintrop, D., Beheshti, E., Horn, M.S., Orton, K. Jona, K., Trouille, L., Wilensky, U. (in press). Defining computational thinking for science, technology, engineering, and mathematics. *Journal of Science Education and Technology*.
- Weintrop, D., Holbert, N., Wilensky, U. & Horn, M. S. (in press). Computational Thinking in Constructionist Video Games. *Journal of Interactive Learning Research*.
- Davis, P., Horn, M.S., Block, F., Phillips, B., Evans, E.M., Diamond, J., & Shen, C. (2015). “Whoa! We’re going deep in the trees!”: Patterns of collaboration around an interactive information visualization exhibit. *International Journal of Computer-Supported Collaborative Learning*, 10, 53-76.
- Wilensky, U., Brady, C., and Horn, M.S. (2014). Fostering computational literacy in science classrooms. *Communications of the ACM*, 57(8), 17-21.
- Davis, P., Horn, M.S., & Sherin, B.L. (2013). The right kind of wrong: A knowledge-in-pieces approach to science learning in museums. *Curator*, 56(1), 31-46.
- Block, F., Horn, M.S., Phillips, B.C., Diamond, J., Evans, E.M., & Shen, C. (2012). DeepTree Exhibit: Visualizing the tree of life to facilitate informal learning. *IEEE Transaction on Visualization & Computer Graphics*, 18(12), 2789-2798.

Horn, M.S., Crouser, R.J., Bers, M.U. (2012). Tangible interaction and learning: The case for a hybrid approach, *Personal and Ubiquitous Computing*, 16(4), 379-389.

Shaer, O., Horn, M.S., & Jacob, R.J.K. (2009). Tangible user interface laboratory: Teaching tangible interaction design in practice, *AI for Engineering Design, Analysis, and Manufacturing*, 23, 251-261.

### **Under Review**

Horn, M.S. (revise and resubmit). Tangible Interaction and Cultural Forms: Supporting computer-based learning in informal environments. *Journal of the Learning Sciences*.

### **ARCHIVAL CONFERENCE PAPERS\***

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Block, F., Hammerman, J., Horn, M.S., Phillips, B.C., Evans, E.M., Diamond, J., Shen, C. (2015). Fluid grouping: Quantifying group engagement around interactive tabletop exhibits in the wild. *ACM Conference on Human Factors in Computing Systems (CHI'15)*, ACM Press, 867-876.

**Best Paper Award (top 1% of all submissions)**

AlSulaiman, S. & Horn, M.S. (2015). Peter the Fashionista? Computer programming games and gender-oriented cultural forms. *ACM CHI PLAY 2015*, ACM Press.

DiAngelo, S., Pollock, D.H., & Horn, M.S. (2015). Fishing with Friends: Tabletop games to raise environmental awareness in aquariums. *Interaction Design and Children (IDC'15)*, 29-38, ACM Press.

Leong, Z.A. & Horn, M.S. (2014). Waiting for learning: Designing interactive education materials for patient waiting areas. *Interaction Design and Children (IDC'14)*, ACM Press, 359-362.

**Best Full Paper Award**

Horn, M., Brady, C., Hjorth, A., Wagh, A., Wilensky, U. (2014). Frog Pond: A code-first learning environment on evolution and natural selection. *Interaction Design and Children (IDC'14)*, ACM, 357-360.

**Best Short Paper Award**

Horn, M.S., Banerjee, A., D'Angelo, S., Kuo, P-Y., Pollock, D.H., Stevens, R. (2014). Turn Up the Heat! Board games, environmental sustainability, and cultural forms. *Games, Learning, and Society (GLS'14)*.

**GLS Showcase Award (2<sup>nd</sup> Place)**

Kuo, P-Y. & Horn, M.S. (2014). Energy Diet: Energy feedback on a bathroom scale. *International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp'14)*, ACM Press, 435-446.

Banerjee, A. & Horn, M.S. (2014). Ghost Hunter: Parents and children playing together to learn about energy consumption. *Tangible, Embedded, and Embodied Interaction (TEI'14)*, ACM Press, 267-274.

Solomon, C., Banerjee, A., & Horn, M.S. (2014). Ultimate trainer: Instructional feedback for ultimate frisbee players. *Tangible, Embedded, and Embodied Interactoin (TEI'14)*, ACM Press, 137-140.

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\* In the field of Computer Science, archival conference proceedings such as the Association for Computing Machinery's (ACM) CHI, IDC, TEI, ITS, and UIST are among the top publication venues. These are peer-reviewed publications, with a multi-stage revision process, and low acceptance rates (CHI's acceptance rate has ranged from 15-25%). Conference proceeding publications rival top journals in the field in their selectivity, citations, and influence. Thus, within the field of human-computer interaction, proceedings publications are considered on par with publications in a journal. For rankings see: [https://scholar.google.com/citations?view\\_op=top\\_venues&vq=eng\\_humancomputerinteraction](https://scholar.google.com/citations?view_op=top_venues&vq=eng_humancomputerinteraction)

- Horn, M.S. (2013). The role of cultural forms in tangible interaction design. *Tangible, Embedded, and Embodied Interaction (TEI'13)*. ACM Press.
- Davis, P., Horn, M.S., Schrementi, L., Block, F., Phillips, B., Evans, E.M., Diamond, J., & Shen, C. (2013). Going Deep: Supporting collaborative exploration of evolution in natural history museums. *Conference on Computer Supported Collaborative Learning (CSCL'13)*, Madison, Wisconsin.  
**Best Design Paper Award**
- Horn, M.S., AlSulaiman, S., Koh, J. (2013). Translating Roberto to Omar: Computational literacy, stickerbooks, and cultural forms. *Interaction Design and Children (IDC'13)*, ACM Press, 120-127.
- Block, F., Wigdor, D., Phillips, B. C., Horn, M. S., & Shen, C. (2012). FlowBlocks: A multi-touch UI for crowd interaction. *User Interface Software and Technology (UIST'12)*, ACM Press, 497-508.
- Beheshti, E., Van Devender, A., & Horn, M.S. (2012). Touch, click, navigate: Comparing tabletop and desktop interaction for map navigation tasks. *Interactive Tabletops and Surfaces (ITS'12)*, ACM Press, 205-214.
- Horn, M.S., Leong, Z.A., Block, F., Diamond, J., Evans, E.M., Phillips, B., & Shen, C. (2012). Of BATs and APEs: An interactive tabletop game for natural history museums. *ACM Conference on Human Factors in Computing Systems (CHI'12)*, ACM Press, 2059-2068.
- Bao, P., Hecht, B., Carton, S., Quaderi, M., Horn, M.S., & Gergle, D. (2012). Omnipedia: Bridging the Wikipedia language gap. *ACM Human Factors in Computing Systems (CHI'12)*, ACM Press, 1075-1084.
- Olson, I., Leong, Z.A., Horn, M. (2011). "It's just a toolbar!" Using tangibles to help children manage conflict around a multi-touch tabletop. *Tangible, Embedded, and Embodied Interaction (TEI'11)*, ACM, 29-36.
- Horn, M. S., Davis, P., Hubbard, A., Keifert, D., Leong, Z.A., & Olson, I.C. (2011). Learning Sustainability: Children, learning, and the next generation eco-feedback technology. *Interaction Design and Children (IDC'11)*, ACM Press, 161-164.
- Olson, I.C. & Horn, M. (2011). Modeling on the Table: Agent-Based Modeling in Elementary School with NetTango. *Interaction Design and Children (IDC'11)*, ACM Press, 189-192.
- Leong, Z.A. & Horn, M.S. (2011). Representing Equality: A Tangible Balance Beam for Early Algebra Education. *Interaction Design and Children (IDC'11)*, ACM Press, 173-176.
- Horn, M.S., Solovey, E.T., Crouser, J.R., and Jacob, R.J.K. (2009). Comparing tangible and graphical programming interfaces for use in informal science education. *ACM Conference on Human Factors in Computing Systems (CHI'09)*, ACM Press, 975-984.
- Horn, M.S., Tobiasz, M., and Shen, C. (2009). Visualizing Biodiversity with Voronoi Treemaps. *International Symposium on Voronoi Diagrams in Science and Engineering (ISVD'09)*, Copenhagen, Denmark.
- Horn, M.S., Solovey, E.T., and Jacob, R.J.K. (2008). Tangible programming and informal science learning: making TUIs work for museums. *Interaction Design and Children (IDC'08)*, ACM Press, 194-201.
- Jacob, R.J.K., Girouard, A., Hirshfield, L.M., Horn, M.S., Shaer, O., Treacy, E.S., and Zigelbaum, J. (2008). Reality-Based Interaction: A Framework for post-WIMP interfaces. *Conference on Human Factors in Computing Systems (CHI'08)*, ACM Press, 201-210.
- Horn, M.S. and Jacob, R.J.K. (2007). Designing Tangible Programming Languages for Classroom Use. *Tangible and Embedded Interaction (TEI'07)*, ACM Press, 159-162.
- Zigelbaum, J., Horn, M.S., Shaer, O., and Jacob, R.J.K. (2007). The Tangible Video Editor: Collaborative Video Editing with Active Tokens. *Tangible and Embedded Interaction (TEI'07)*, ACM Press, 43-46.

## Books and Chapters

- Diamond, J., Horn, M.S., & Uttal, D. (in press). *Practical evaluation guide: Tools for museums and other informal educational settings*. 3<sup>rd</sup> edition. AltaMira Press.
- Bers, M. U. & Horn, M. S. (2009). Tangible programming in early childhood: Revisiting developmental assumptions through new technologies. In I. R. Berson & M. J. Berson (Eds.), *High-tech tots: Childhood in a digital world*. Greenwich, CT: Information Age Publishing.

## Patent Applications

- Bers, M.U, & Horn, M.S. "Educational robotic systems and methods." U.S. Patent Application 14/242,220.

## Other Selected Papers, Presentations, and Demos

- Hu, F., Zekelman, A., Horn, M., & Judd, F. (2015). Strawbies: Explorations in tangible programming (demo presentation). *Interaction Design and Children (IDC'15)*.
- Beheshti, E., Weintrop, D., Orton, K., Horn, M. S., Jona, K., Trouille, L., Wilensky, U. (2015). Bringing Expert Computational Practices into High School Science Classrooms. *NARST Conference*.
- Horn, M., Phillips, B., Evans, E.M., Block, F., Diamond, J., Shen, C. (2015). Visualizing the tree of life: Learning around an interactive visualization of biological data in museums. *NARST Conference*.
- Horn, M.S. (2014). Beyond video games for social change. *ACM Interactions*, 21(2), 66-68.
- Villanosa, K., Block, F., Horn, M.S., Shen, C. (2014). Build-a-Tree: Parent-child gaming to learn about evolution in museum settings. *Games, Learning, and Society (GLS'14)*.
- Horn, M., Weintrop, D., & Routman, E. (2014). Programming in the pond: A tabletop computer programming exhibit. Work-in-progress at *Human Factors in Computing Systems Extended Abstracts (CHI'14)*.
- Horn, M.S., Banerjee, A., D'Angelo, S., Kuo, P-Y, Pollock, D.H., Stevens, R. (2014). Game Arcade: Turn Up the Heat!. *Games, Learning, and Society Demo Track (GLS'14)*.
- Villanosa, K., Block, F., Hosford, A., Horn, M.S., Shen, C. (2014). Game Arcade: Build-a-Tree. *Games, Learning, and Society Demo Track (GLS'14)*.
- Beheshti, E., Aljuhani, A., Horn, M.S. (2014). Electrons to Light Bulbs: Understanding Electricity with a Multi-Level Simulation Environment. *IEEE Frontiers in Education (FIE'14)*.
- Weintrop, D., Beheshti, E., Horn, M. S., Orton, K., Jona, K., Trouille, L., & Wilensky, U. (2014). Defining Computational Thinking for Science, Technology, Engineering, and Math. Poster presented at the annual meeting of the American Education Research Association (AERA'14).
- Brady, C., Banerjee, A., Hjorth, A., Horn, M.S., Wagh, A., Wilensky, U. (2014). Getting your drift—activity designs for grappling with evolution. Poster presented at the International Conference of the Learning Sciences (ICLS'14), Boulder, Colorado.
- Evans, E.M., Phillips, B.C., Horn, M.S., Block, F., Diamond, J., & Shen, C. (2013). Active prolonged engagement: When does it become active prolonged “learning”? In Uttal, D. (chair), *Developmental*

research outside the lab: Children's STEM learning in museums. Symposium presented at the *Society for Research in Child Development Biennial Meeting SRCD'13*.

Phillips, B.C., Evans, E.M., Horn, M.S., Block, F., Diamond, J., & Shen, C. (2013). How is a human like a banana? Conceptions of humans as part of the natural world. Symposium presented at the *Society for Research in Child Development Biennial Meeting SRCD'13*.

Chua, K.C., Qin, Y., Block, F., Phillips, B., Diamond, J., Evans, E.M., Horn, M.S., Shen, C. (2012). FloTree: A multi-touch interactive simulation of evolutionary processes. Demo presented at *Interactive Tabletops and Surfaces (ITS'12)*, Boston, Massachusetts.

Weintrop, D., Holbert, N., Wilensky, U., & Horn, M.S. (2012). Redefining constructionist video games: Marrying constructionism and video game design. Presented at *Constructionism 2012*, Athens, Greece.

Evans, M.A., Rick, J., Horn, M.S., Shen, C., Mercier, E., McNaughton, J., Higgins, S., Tissenbaum, M., Lui, M., & Slotta, J.D. (2012). Interactive surfaces and spaces: A learning sciences agenda. Interactive poster session presented at the *International Conference of the Learning Sciences (ICLS'12)*, Sydney, Australia.

Horn, M.S. & Wilensky, U. (2012). NetTango: A mash-up of NetLogo and Tern. In Moher, T. (chair) and Pinkard, N. (discussant), *When systems collide: Challenges and opportunities in learning technology mash-ups*. Symposium presented at AERA, Vancouver, British Columbia.

Horn, M. (2012). Spinners, Dice, and Pawns: Using board games to prepare learners for agent-based modeling activities. In M. Berland (chair) and Kafai, Y. (discussant), *Fiddling on the fly: thinking, learning, and designing using board games*. Symposium presented at AERA, Vancouver, British Columbia.

Boxerman, J.Z., Horn, M.S. (2011). Helping learners comprehend changes over time and space on a geological scale. Presented at the Geological Society of American Annual Meeting, Minneapolis, MN.

Leong, Z.A. & Horn, M.S. (2010). The BEAM: a digitally enhanced balance beam for mathematics education. *Interaction Design and Children (demo presentation)*, Barcelona, Spain, June 9-12. ACM Press.

Blikstein, P., Buechley, L., Horn, M.S., Raffle, H. (2010). A new age in tangible computational interfaces for learning. In *Proc. International Conference of the Learning Sciences (ICLS'10)*, Chicago, IL.

Horn, M.S. & Shen, C. (2009). Frogs and Toads Memory: A Voronoi Twist on the Classic Children's Game. In *Intl. Symposium on Voronoi Diagrams in Science and Engineering (ISVD'09)*, Copenhagen, Denmark.

Bers, M.U. & Horn, M.S. (2009). Tangible Programming in Early Childhood: Revisiting Developmental Assumptions through New Technologies. Presented at the *NAEYC Annual Conference*, Washington, DC.

Horn, M.S. and Jacob, R.J.K. (2007). Tangible Programming in the Classroom with Tern. *Human Factors in Computing Systems (CHI'07 Trends Interactivity)*, ACM Press.

Jacob, R.J.K., Girouard, A., Hirshfield, L.M., Horn, M.S., Shaer, O., Solovey, E.T., and Zigelbaum, J. (2007). Reality-Based Interaction: Unifying the New Generation of Interaction Styles. *Human Factors in Computing Systems (extended abstracts) CHI'07*, ACM Press.

Jacob, R.J.K., Girouard, A., Hirshfield, L.M., Horn, M.S., Shaer, O., Solovey, E.T., and Zigelbaum, J. (2007). "What Is the Next Generation of Human-Computer Interaction?" *ACM Interactions*, 14(3), 53-58.

Horn, M.S. & Jacob, R.J.K. (2006). Tangible Programming in the Classroom: A Practical Approach. *Human Factors in Computing Systems Conference (extended abstracts) CHI'06*, ACM Press, 869-874.

## TEACHING

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2009 -	<b>Intro to Design for the Learning Sciences</b> (graduate)	Northwestern University
2011 -	<b>Human-Computer Interaction</b> (undergraduate)	Northwestern University
2013 -	<b>Tangible Interaction Design and Learning</b> (graduate)	Northwestern University
2010	<b>Design &amp; Emotion</b> (graduate)	Northwestern University
2008	<b>Tangible User Interface Laboratory</b> (undergraduate)	Tufts University
2006 - 2009	<b>Problem Solving in Discrete Mathematics</b> (teacher PD) Developed curriculum, led activities, and mentored local K-12 mathematics teachers for a summer professional development institute on Discrete Mathematics.	Tufts University
2005	<b>Introduction to Computer Science</b> (undergraduate)	Tufts University
2003 - 2005	<b>Coordinator CSEMS Mentoring Program</b> Coordinated an academic mentoring and enrichment program for underrepresented undergraduates in engineering and computer science.	Tufts University

## PROFESSIONAL ACTIVITIES & COMMUNITY

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### Conference Chairing

- ACM Interactive Tabletops and Surfaces (2012, 2013), Program Committee Co-Chair
- ACM Tangible Embedded and Embodied Interaction (2012, 2014), Studios Co-Chair
- ACM Tangible Embedded and Embodied Interaction (2016), Design Competition Co-Chair
- ACM Interaction Design and Children (2011), Demos Co-Chair

### Conference Committees

- ACM Tangible Embedded and Embodied Interaction (2011, 2013, 2015), Program Committee
- ACM Tangible Embedded and Embodied Interaction (2013), Doctoral Symposium Mentor Faculty
- ACM Human Factors in Computing Systems (2012), Program Committee
- ACM Interaction Design and Children (2011 - 2015), Program Committee
- ACM Interactive Tabletops and Surfaces (2011), Program Committee
- ACM Human Factors in Computing Systems (2011), Work-in-Progress Program Committee

### Editorial Board

- Technology, Knowledge, and Learning (2010-2012)

### Memberships

- Association for Computing Machinery (ACM)
- IEEE Computer Society



- American Educational Research Association (AERA)
- International Society of the Learning Sciences (ISLS)

### Ad Hoc Reviewer (Selection)

- Computer Supported Collaborative Learning (CSCL)
- International Conference of the Learning Sciences (ICLS)
- ACM Conference on Human Factors in Computing Systems (CHI)
- Tangible, Embedded, and Embodied Interaction (TEI)
- Interaction Design and Children (IDC)
- Interactive Tabletops and Surfaces (ITS)
- Interacting with Computers
- Computers & Education
- Transactions on Computer Human Interaction (TOCHI)
- International Journal of Human-Computer Studies
- Evolution Education and Outreach
- Journal of Computers for Mathematical Learning
- Journal of Personal and Ubiquitous Computing

### INVITED TALKS

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- Northwestern Science Café, September 2015.
- University of Illinois, Chicago Learning Sciences Colloquium, October 2015.
- École Polytechnique Fédérale de Lausanne (EPFL), October 2012.
- DePaul University, College of Computing and Digital Media, March 2012.
- Wellesley College, Computer Science, March 2012
- Purdue University, School of Engineering Education, October 2011.
- University of Illinois, Chicago, IL, October 2011.
- Design for Mobile Conference (D4M'2010), Chicago, IL, September 2010

### PRESS COVERAGE

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Spring 2012	<b>Harvard Gazette</b> , Touch, drag, learn <a href="http://news.harvard.edu/gazette/story/2012/06/touch-drag-learn/">http://news.harvard.edu/gazette/story/2012/06/touch-drag-learn/</a>
Spring 2012	<b>ACM TechNews</b> , <i>Teaching Tree-Thinking Through Touch</i> <a href="http://technews.acm.org/archives.cfm?fo=2012-06-jun/jun-06-2012.html">http://technews.acm.org/archives.cfm?fo=2012-06-jun/jun-06-2012.html</a>
Spring 2012	<b>ScienceDaily</b> article on the Life on Earth project and Build-a-Tree game <a href="http://www.sciencedaily.com/releases/2012/06/120604111121.htm">http://www.sciencedaily.com/releases/2012/06/120604111121.htm</a>
Spring 2012	<b>NewScientist</b> article on Omnipedia research <a href="http://bit.ly/J2OkWN">http://bit.ly/J2OkWN</a>
February 2008	<b>Computerworld</b> article with a discussion on Reality-Based Interaction <a href="http://www.cs.tufts.edu/~jacob/papers/computerworld.pdf">http://www.cs.tufts.edu/~jacob/papers/computerworld.pdf</a>
January 2008	<b>NECN TV</b> interview on my tangible programming research <a href="http://www.necn.com/category/9/2299">http://www.necn.com/category/9/2299</a>