

# ORIT SHAER

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**RESEARCH AREAS** Human-Computer Interaction, Medical Informatics, Information Visualization, Tangible and Embodied Interaction, Multi touch interaction, Virtual Reality, Wearable Technology.

## EDUCATION

2004-2008

TUFTS UNIVERSITY, DEPARTMENT OF COMPUTER SCIENCE

### **PhD in Computer Science**

Dissertation: *A Visual Language for Programming Tangible User Interfaces*.

Committee: Robert Jacob (Chair), Samuel Guyer, Judith Stafford, Harriet Fell, Ray Jackendoff

2002-2004

TUFTS UNIVERSITY, DEPARTMENT OF COMPUTER SCIENCE

### **Master of Science in Computer Science**

1998-2001

THE ACADEMIC COLLEGE OF TEL-AVIV

### **Bachelor of Arts degree in Computer Science**

Dean's Honors List

## ACADEMIC POSITIONS

2015-Present

WELLESLEY COLLEGE, DEPARTMENT OF COMPUTER SCIENCE

### **Associate Professor of Computer Science**

### **Director Human-Computer Interaction Laboratory**

### **Co-Director Media Arts and Sciences program (2010-2012, 2015-2017)**

An interdepartmental major supported by the Art and Computer Science departments.

2008-2015

### **Clare Boothe Luce Assistant Professor of Computer Science**

2003-2008

TUFTS UNIVERSITY, DEPARTMENT OF COMPUTER SCIENCE

### **Research Assistant, Instructor**

2005-2006

UNIVERSITY COLLEGE LONDON, INTERACTION CENTRE

### **Visiting Research Fellow**

2003-2004

UNIVERSITY OF WASHINGTON, DESIGN MACHINE GROUP

### **Visiting Researcher**

## HONORS

2016

Class of 1966 Named Chair

2015

Gold Medal, International Genetically Engineered Machine competition (iGEM).

2014

ACM CHI Best Paper Award Honorable Mention

2013

Pinanski Teaching Prize, Wellesley College

2013

Google App Engine Education Award.

2012

Gold Medal, Best Eugene Project, Best Requirements Engineering, Best SBOL project, iGEM.

2011

Gold Medal and Best Software Tool, International Genetically Engineered Machine competition (iGEM).

2009

Clare Boothe Luce Professorship in Computer Science.

2007	Outstanding Graduate Contributor to Engineering Education, Tufts University.
2006	Graduate Consortium Award, IEEE Symposium on Visual Languages and Human-Centric Computing.
2005	CHI Doctoral Consortium Award, ACM Conference on Human Factors in Computing Systems.

## GRANTS

2015	<b>National Science Foundation</b> CISE CRI, A Multi Surface Interactive Visualization Facility (\$479,631). Role: PI
2014	Wellesley College Staley Fellowship, Human-Computer Interaction for Personal Genomics: Improving Users' Understanding of Genetic Risk Information (\$49,600). Role: PI
2014-2017	<b>National Science Foundation</b> IIS, Human-Computer Interaction for Personal Genomics: Understanding, Informing, and Empowering Users (\$342,930). Role: PI
2014	Wellesley College Brachman Hoffman Award, Evaluating the Benefits of Interactive Stereo Displays for Spatial Problem Solving Using fNIRS Brain Sensing (\$12,392). Role: PI
2013	<b>Agilent Technologies</b> Inc., Evaluating the Benefits of Interactive 3D Stereo Displays for Biological Design. (\$41,289). Role: PI
2012-2017	<b>National Science Foundation CAREER</b> HCC, Advancing Innovation in Bio-Design through Reality-Based Interaction (\$472,217). Role: PI
2012	<b>Agilent Technologies</b> , Advancing Innovation in Bio-Design through Tabletop Reality-Based Interaction (\$27,237). Role: PI
2012	<b>National Science Foundation</b> IIS, Workshop: Doctoral Symposium at the 2012 Interactive Tabletops and Surfaces Conference (\$21,987). Role: PI
2010-2013	<b>National Science Foundation</b> IIS, Enhancing Genomic Exploration through Reality-Based Interaction (\$268,712). Role: PI
2011-2012	<b>National Science Foundation</b> IIS, Graduate Student Consortium at the 2012 Tangible, Embedded and Embodied Interaction (TEI'11) Conference (\$24,800). Role: PI
2011-2012	<b>Howard Hughes Medical Institute</b> intern award (through Wellesley College), Enhancing Scientific Discovery through Reality-Based Interaction (\$45,380). Role: PI
2011	Wellesley College Educational Research and Development grant (with Kristina Jones), Handheld devices and student-designed apps for engaging in science at Wellesley (\$2,861). Role: co-PI
2011	Wellesley College Faculty Research Award, Enhancing Group Brainstorming through Tabletop Reality-Based Interaction (\$3,300). Role: PI
2010	Wellesley College Educational Research and Development grant (with Brian Tjaden and Franklyn Turbak), Rapid Prototyping in CS111 (\$1,200). Role: co-PI
2009	Wellesley College Brachman-Hoffman Grant, Enhancing Scientific Discovery through Reality-Based Interaction (\$4,015). Role: PI
2008	Wellesley College Faculty Research Award, Enhancing Human-Computer Interactions through Whole-body Movement (\$2,300). Role: PI

## TEACHING

2009-Present	Tangible User Interfaces, Wellesley College (CS320)
2009-Present	Human-Computer Interaction, Wellesley College (CS220)
2012-2015	Data Structures, Wellesley College (CS230)
2009-2011, 2016	Computer Programming and Problem Solving, Wellesley College (CS111)
2011-2012	Computer Science and the Internet, Wellesley College (CS110)
2006-2008	Tangible User Interfaces, Tufts University (COMP150)

## PROFESSIONAL ACTIVITIES

CHAIR	ACM International Conference on Interactive Tabletops and Surfaces, 2012. ACM TEI Conference: <b>Program Co-Chair 2017</b> , 2010. <b>Graduate Student Consortium Co-Chair</b> , 2012.
PROGRAM COMMITTEE	Program committee: 2007-2008, 2011, 2014-2015. ACM CSCW 2017. ACM EICS 2016. ACM Creativity and Cognition, 2015. ACM SIGCHI Symposium on Engineering Interactive Computing Systems, 2013. ACM CHI 2012. ACM International Conference on Interactive Tabletop and Surfaces, 2011. ACM UIST Symposium 2010.
EDITOR	<b>Editorial Board</b> , Foundations and Trends in Human–Computer Interaction, 2011 – Present. ACM TOCHI, Special Issue on User Interface Description Languages for Next Generation User Interfaces, Spring 2009.
GRANT REVIEWER	National Science Foundation.
REVIEWER	ACM CHI 2005-2017, UIST 2011-2017, EICS 2010 – 2015, Transaction on Computer-Human Interaction (ToCHI), The Journal of Personal and Ubiquitous Computing, International Journal of Arts and Technology, The Journal of Advances in Human-Computer Interaction, IwC Journal (Interacting with Computers), IEEE Transactions on Systems Man and Cybernetics.
SERVICE TO THE COLLEGE	Committee on Curriculum and Academic Policy (2015-2018) Science Center Planning Advisory Committee (2016-2017) College to Career Initiative (Center for Work and Service), Search Committee (2015-2016) Agenda Committee (elected 2011-2012, 2013-2015) Search Committee Director of Career Services (2015) Pinanski Committee (2014) Ruhlman Committee (2014-2016) Advisory Committee on Library and Technology (2010-2011) Board of Admission (2009-2010)
SERVICE TO THE DEPARTMENT	Computer Science Reappointment and Promotion Committee (2015-present) Computer Science Faculty Search Committee (2009, 2013-2014, 2015-2016) Student Travel Committee (2014) Committees on: Minority Students, Introductory Courses, Experiences Outside the Classroom (2011-2012) Admission liaison (2010-2012) Tanner Technology Fellows, co-advisor (2010) Computer Science Cirque du CS, student presentations coordinator (2011) Alumnae panel organizer (2009)

## PUBLICATIONS (Wellesley students and alumnae are denoted in bold)

### REFEREED JOURNAL ARTICLES

- J.1 O. Shaer, O. Nov, **J. Okerlund**, M. Balestra, **L. Stowell**, **L. Ascher**, **J. Bi**, **C. Schlenker**, M. Ball, Informing the Design of Direct-to-Consumer Interactive Personal Genomics Reports, *Journal of Medical Internet Research*, doi:10.2196/jmir.4415, 2015.
- J.2 O. Shaer, **C. Valdes**, **S. Liu**, **K. Lu**, **K. Chang**, **W. Xu**, T. L. Haddock, S. Bhatia, D. Densmore, R. Kincaid, Designing Reality-Based Interfaces for Experiential Bio-Design, *Personal and Ubiquitous Computing*, November 2013.
- J.3 O. Shaer, **M. Strait**, **C. Valdes**, **H. Wang**, **T. Feng**, **M. Lintz**, **M. Ferreira**, **C. Grote**, **K. Tempel**, **S. Liu**, The Design, Development, and Deployment of a Tabletop Interface for Collaborative Exploration of Genomic Data, *International Journal of Human-Computer Studies (IJHCS)*, 2012.
- J.4 O. Shaer, E. Hornecker, Tangible User Interfaces: Past, Present, and Future Directions, *Foundations and Trends in Human-Computer Interaction*, Vol. 3, Issue 1-2, April 2010.
- J.5 O. Shaer, R.J.K Jacob, A Specification Paradigm for the Design and Implementation of Tangible User Interfaces, *ACM Transactions on Computer-Human Interaction (TOCHI)*, Vol. 16, No. 4, November 2009.
- J.6 O. Shaer, M.S. Horn, R.J.K. Jacob, Tangible User Interface Laboratory: Teaching Interaction Design in Practice, *AIEDAM Special Issue on Tangible Interaction for Design*, Spring 2009, Vol 23, No. 2.
- J.7 O. Shaer, N. Leland , E.H Calvillo, R.J.K. Jacob, The TAC Paradigm: Specifying Tangible User Interfaces, *Personal and Ubiquitous Computing*, vol. 8, no. 5, pp. 359-369, September 2004.

### REFEREED LONG CONFERENCE PAPERS

- C.1 O. Shaer, O. Nov, **J. Okerlund**, M. Balestra, **E. Stowell**, **L. Westendorf**, **C. Pollalis**, **L. Westort**, **J. Davis**, **M. Ball**. GenomiX: A Novel Interaction Tool for Self-Exploration of Personal Genomic Data, Proc. CHI 2016 (Acceptance Rate 23%).
- C.2 M. Balestra, O. Shaer, **J. Okerlund**, M. Ball, O. Nov. The Effect of Exposure to Social Annotation on Online Informed Consent Beliefs and Behavior. Proc. CSCW 2016 (Acceptance Rate 25%).
- C.3 **J. Okerlund**, **E. Segreto**, **C. Grote**, **L. Westendorf**, A. Scholze, R. Litrell, O. Shaer. SynFlo: A Tangible Museum Exhibit for Exploring Bio-Design. Proc. TEI 2016 Tangible, Embedded and Embodied Interaction (Acceptance Rate 27%).
- C.4 **C. Grote**, **E. Segreto**, **J. Okerlund**, R. Kincaid, O. Shaer, Eugenie: Multi-Touch and Tangible Interaction for Bio-Design, ACM TEI 2015 (Acceptance Rate 28%).
- C.5 E.T. Solovey, **J. Okerlund**, **C. Hoef**, **J. Davis**, O. Shaer. Augmenting Spatial Skills with Semi-Immersive Interactive Desktop Displays: Do Immersion Cues Matter? Proc. Augmented Human. 2015 (Acceptance Rate 28%).
- C.6 **C. Valdes**, **D. Eastman**, **C. Grote**, S. Thatte, O. Shaer, A. Mazalek, B. Ullmer, M. Konkell, Exploring the Design Space of Gestural Interaction with Active Tokens through User-Defined Gestures. *ACM CHI 2014 Human Factors in Computing Systems Conference*. (Acceptance Rate 23%). **Best Paper Award Honorable Mention** [Awarded to top 5%].
- C.7 O. Shaer, **C. Valdes**, **S. Liu**, **K. Lu**, T. L. Haddock, S. Bhatia, D. Densmore, R. Kincaid, MoClo Planner: Interactive Visualization for Modular Cloning Bio-Design, *IEEE BioVis 2013*. (Acceptance rate 40%).
- C.8 O. Shaer, A. Mazalek, B. Ullmer, M. Konkell, From Big Data to Insights: Opportunities and Challenges for TEI in Genomics, *ACM SIGCHI TEI 2013 Tangible, Embedded and Embodied Interaction*. (Acceptance rate 31%).
- C.9 **C. Valdes**, **M. Ferreira**, **T. Feng**, **H. Wang**, **K. Tempel**, **S. Liu**, O. Shaer, A Collaborative

Environment for Engaging Novices in Scientific Inquiry, *ACM ITS 2012 Interactive Tabletops and Surfaces*. (Acceptance rate 29%).

- C.10 B. Schneider, **M. Strait**, L. Muller, **S. Elfenbein**, O. Shaer, C. Shen, Phylo-Genie: Engaging Students in Collaborative ‘Tree-Thinking’ through Tabletop Techniques, *ACM CHI 2012 Human Factors in Computing Systems Conference*. (Acceptance rate 23%).
- C.11 O. Shaer, **M. Strait**, **C. Valdes**, **T. Feng**, **M. Lintz**, **H. Wang**, Enhancing Genomic Learning through Tabletop Interaction, *ACM CHI 2011 Human Factors in Computing Systems Conference*. (Acceptance rate 26%).
- C.12 O. Shaer, J. Olson, **M. Edwards**, **C. Valdes**, Art App-reciation: Fostering Engagement and Reflection in Museums through a Social-Mobile Application, *Museums and the Web 2011*.
- C.13 O. Shaer, G. Kol, **M. Strait**, **C. Fan**, **C. Grevet**, **S. Elfenbein**, G-nome Surfer: a Tabletop Interface for Collaborative Exploration of Genomic Data, *ACM CHI 2010 Human Factors in Computing Systems Conference*. (Acceptance rate 22%).
- C.14 R.J.K. Jacob, A. Girouard, L.M. Hirshfield, M.S. Horn, O. Shaer, E.T. Solovey, J. Zigelbaum, Reality-Based Interaction: A Framework for Post-WIMP Interfaces, *ACM CHI 2008 Human Factors in Computing Systems Conference*. (Acceptance rate 22%).
- C.15 J. Zigelbaum, M. Horn, O. Shaer, R.J.K. Jacob, The Tangible Video Editor: Collaborative Video Editing with Active Tokens, *ACM TEI 2007 Conference on Tangible and Embedded Interaction*. (Acceptance rate 40%).

#### INVITED PAPERS

- I.1 O. Shaer, O. Nov, HCI for Personal Genomics: Understanding, Informing and Empowering Non-Experts, *Interactions*, September-October 2014.
- I.2 O. Shaer, A. Millner, C. Hummles, Trajectories in TEI: Reflecting on the Evolution of Ideas Innovators and Interactions, *Interactions*, November-December 2012.
- I.3 R.J.K. Jacob, A. Girouard, L.M. Hirshfield, M. Horn, O. Shaer, E.T. Solovey, J. Zigelbaum, What Is the Next Generation of Human-Computer Interaction?, *Interactions*, vol. 14, no. 3, pp. 53-58, May 2007.

#### REFEREED EXTENDED ABSTRACTS

- A.1 A. Girouard, D. McGookin, P. Bennett, O. Shaer, K.A. Siek, M. Lennon, Tangibles For Health, Workshop ACM CHI 2016.
- A.2 **V. Lin** and O. Shaer, Beyond the Lab: Using Technology Toys to Engage South African Youth in Computational Thinking, Case Study, ACM CHI 2016
- A.3 **G. Hu**, **L. Chen**, **J. Okerlund**, O. Shaer, Extended Abstract, ACM CHI 2015.
- A.4 **G. Chuang**, **S. Wang**, **S. Burns**, O. Shaer, EmotiSphere: From Emotion to Music , Work in Progress ACM TEI 2015
- A.5 **C. Grote**, **E. Segreto**, **J. Okerlund**, R. Kincaid, O. Shaer, Eugenie: Gestural and Tangible Interaction with Active Tokens for Bio-Design, Extended Abstract, ACM UIST 2014.
- A.6 **C. Hoef**, **J. Davis**, E. Solovey, O. Shaer, An In-Depth Look at the Benefits of Immersion Cues on Spatial 3D Problem Solving, Extended Abstract, ACM Spatial User Interfaces 2014.
- A.7 O. Shaer, O. Nov, Treemap Visualization of Personal Genomic Reports, Work in Progress abstract, Biovis 2014.
- A.8 O. Shaer, O. Nov, **A. West**, **D. Eastman**, Understanding Information Practices of Interactive Personal Genomics Users. Extended abstract, *ACM CHI 2014 Human Factors in Computing Systems Conference*.
- A.9 **I. Kwok**, **C. Lee**, **J. Okerlund**, **Q. Zhu**, O. Shaer, musicAir: Creating Music Through Movement, Work in Progress abstract, *ACM SIGCHI TEI 2014 Tangible, Embedded and Embodied Interaction*.

- A.10 **W. Xu, K. Chang, N. Francisco, C. Valdes**, R. Kincaid, O. Shaer, From Wet Lab Bench to Tangible Virtual Experiment: SynFlo, Extended abstract, *ACM SIGCHI TEI 2013 Tangible, Embedded and Embodied Interaction*.
- A.11 **S. Liu, K. Lu, N. Seifeselessie, C. Grote, N. Francisco, V. Lin, L. Ding, C. Valdes**, R. Kincaid, O. Shaer, MoClo Planner: Supporting Innovation in Bio-Design through Multitouch Interaction, Demo abstract, *ACM ITS 2012 Interactive Tabletops and Surfaces*.
- A.12 **K. Chang, W. Xu, N. Francisco, C. Valdes**, R. Kincaid, O. Shaer, SynFlo: An Interactive Installation Introducing Synthetic Biology Concepts, Demo abstract, *ACM ITS 2012 Interactive Tabletops and Surfaces*.
- A.13 O. Shaer, **M. Strait, C. Valdes, T. Feng, M. Lintz, H. Wang**, G-nome Surfer: a Tabletop Interface for Collaborative Exploration of Genomic Visualization, *IEEE BioVis 2011*.
- A.14 **D. Garrahan, O. Shaer, A. Piplica**, K. Gold, Leveraging Gesture and Voice Data to Improve Group Brainstorming. Work In Progress, *ACM CHI 2010 Human Factors in Computing Systems Conference*, Extended abstracts.
- A.15 O. Shaer, R.J.K Jacob, M. Green, K. Luyten, User Interface Description Languages for Next Generation User Interfaces, *ACM CHI 2008 Human Factors in Computing Systems Conference*, Workshop abstract.
- A.16 A. Bean, S. Siddiqi, A. Chowdhury, B. Whited, O. Shaer, R.J.K Jacob, Marble Track Audio Manipulator (MTAM): A Tangible User Interface for Audio Composition, *TEI 2008 International Conference on Tangible and Embedded Interaction*.
- A.17 R.J.K. Jacob, A. Girouard, L.M. Hirshfield, M.S. Horn, O. Shaer, E.T. Solovey, J. Zigelbaum, Reality-Based Interaction: Unifying the New Generation of Interaction Styles, *ACM CHI 2007 Human Factors in Computing Systems Conference*.
- A.18 A. Girouard, E.T. Solovey, L. Hirshfield, S. Ecott, O. Shaer, R.J.K. Jacob, Smart Blocks: A Tangible Mathematical Manipulative, *TEI 2007 International Conference on Tangible and Embedded Interaction*.
- A.19 O. Shaer and R.J.K. Jacob, A Visual Language for Programming Reality-Based Interaction, *IEEE Symposium on Visual Languages and Human-Centric Computing*, Graduate Student Consortium, 2006.
- A.20 O. Shaer, A Framework for Building Reality-Based Interfaces for Wireless-Grid Applications, *ACM CHI 2005 Human Factors in Computing Systems Conference*, Doctoral Consortium.

#### REFEREED WORKSHOP PAPERS

- W.1 O. Shaer, A. Mazalek, **J. Okerlund, C. Grote**, B. Ullmer, Tangible Interaction With Large Data Sets Using Active Tokens, Exploring the Challenges of Making Data Physical Workshop, CHI 2015.
- W.2 **J. Okerlund**, M. Balestra, **C. Grote**, O. Shaer, O. Nov, An Environment For Long-Term Engagement with Personal Genomic Data , Beyond Personal Informatics: Designing for Experiences with Data Workshop, CHI 2015.
- W.3 A. Mazalek, O. Shaer, B. Ullmer, M. Konkel, Tangible Meets Gestural: Gesture Based Interaction with Active Tokens, *ACM CHI 2014 Workshop on Gesture-based Interaction Design: Communication and Cognition*.
- W.4 O. Shaer, **C. Valdes, C. Grote, W. Xu**, and **T. Feng**, Enhancing Data-Driven Collaboration with Large-Scale Interactive Tabletops, *ACM CHI 2013 Workshop on Blended Interaction*.
- W.5 O. Shaer, **C. Valdes**, A Tiered Evaluation Framework for Reality-Based Creativity Support Environments, *ACM CHI 2013 Workshop on Evaluation Methods for Creativity Support Environments*.
- W.6 **C. Valdes, T. Feng**, O. Shaer, Waiting for Supermom: Opportunities for HCI, *ACM CHI 2013 Workshop on Motherhood and HCI*.
- W.7 O. Shaer, M. Umachi Bers, M. Chang, Making the Invisible Tangible: Learning Biological Engineering in Kindergarten, *ACM CHI 2011 Workshop on User Interface Technology and Educational Pedagogy*.

- W.8 O. Shaer, Advancing Collaborative Discovery through Reality-Based Interaction, *ACM CHI 2011 Workshop on Embodied User Interfaces*.
- W.9 O. Shaer, G-nome Surfer: a Tabletop Interface for Collaborative Exploration of Genomic Data, *ICLS 2010 Workshop on Collaborative Learning with Interactive Surfaces: An Interdisciplinary Agenda*.
- W.10 O. Shaer, Exploring Reality-Based Interaction through Whole-Body Movement, *ACM CHI 2009 Workshop on Whole Body Interaction*.
- W.11 E.T. Solovey, O. Shaer, A. Girouard, L.M. Hirshfield, M.S. Horn, J. Zigelbaum, R.J.K. Jacob, Programming Reality Within the Reality-Based Interaction Framework, *ACM CHI 2009 Workshop on Organic User Interfaces*.
- W.12 M.S. Horn, O. Shaer, A. Girouard, L.M. Hirshfield, E.T. Solovey, J. Zigelbaum, R.J.K. Jacob, Putting Tangible User Interfaces in Context: A Unifying Framework for Next Generation HCI, *ACM CHI 2007 Workshop on Tangible User Interfaces in Context and Theory*.

#### OTHER

- O.1 O. Shaer, Beyond 'Pink' Games: Industry and Academia Must Work Together To Engage Women Gamers and Developers, The Huffington Post, March 2016.
- O.2 O. Shaer, What Are You Reading?, ACM Interactions, November 2015.
- O.3 Cathy Summa, Robbin Chapman, O. Shaer, From Silos to Pathways: Bridging the divide between student support and academic programs to increase STEM Persistence, Panel, AACU 2015 Annual Meeting
- O.4 **C. Grevet**, S. Lee, O. Shaer, **M. Strait**, D. Xu, S. Wang, Lessons Learned from the All Female Classroom, and How to Translate into the Coed Environment, *Grace Hopper Celebration of Women in Computing*, panel, November 2011.
- O.5 T. Pederson, O. Shaer, R. Wakkary, Welcome to the TEI'10 Proceedings, *Proceedings of the fourth international conference on Tangible, embedded, and embodied interaction*, January 2010.
- O.6 O. Shaer, R.J.K. Jacob, M. Green, K. Luyten, Introduction to the special issue on UIDL for next-generation user interfaces, *ACM Transactions on Computer-Human Interaction (TOCHI)*, Vol. 16, No. 4, November 2009.

#### INVITED TALKS AND PANELS

##### **Reality-Based Interfaces for Collaborative Exploration**

Tufts University, Computer Science Colloquium, March 2016.  
 IsraHCI - Israeli Human-Computer Interaction Research Conference, **Keynote**, February 2016.  
 Interdisciplinary Center Herzliya, Israel, December 2015.  
 Shenkar College of Engineering and Design, Israel, December 2015.  
 Stanford University, Transformative Learning Technologies Lab, January 2015.  
 Boston University, International Workshop on Bio-Design Automation, **Keynote**, June 2014.  
 Williams College, Clare Boothe Luce Scholars Program, January 2014.  
 Boston University, Center for Information and Systems Engineering seminar, November 2013.  
 Holon Institute of Technology, Israel, Interaction Lab Seminar, May 2013.  
 Helsinki Institute of Technology, Big Data Visualization and Interaction Workshop, April 2013.  
 Harvard University, Liberact Workshop, February 2013.  
 MIT, Human Automation Laboratory seminar, October 2012.  
 Olin College of Engineering, Human Factors and Interface Design, October 2012.  
 Worcester Polytechnic Institute, Computer Science Colloquia series, October 2011.  
 Wellesley College, Science Faculty Seminar, March 2011.

Tufts University, Developmental Technologies Seminar, Child Development, July 2010.

Olin College of Engineering, Human Factors and Interface Design, October 2009.

**Interdisciplinary Science, Liberal Arts Learning in the Digital Age Seminar Series**

Wellesley College, February 2012 (Panelist).

**Lessons Learned from the All Female Classroom, and How to Translate into the Coed Environment**

Grace Hopper Celebration of Women in Computing, November 2011 (Panelist).

**Enhancing Genomic Learning through Tabletop Interaction**

BostonCHI Labs meeting, Microsoft, April 2011.

**A Specification Paradigm for the Design and Implementation of Tangible User Interfaces**

MIT Computer Science and Artificial Intelligence Lab, HCI Seminar Series, May 2009.

**Specifying and Programming Next Generation User Interfaces**

Northeastern University, Computer Science Department, November 2008.

**Reality Based Interaction: Understanding Next Generation User Interfaces**

BostonCHI, Sun Microsystems, June 2008.

Wellesley College, Computer Science Department, February 2008.

MIT Media Lab, Tangible Media Group, February 2008.

**User Interface Software Tools, Principles and Trends**

ACM CHI'07 Course, Introduction to Human Computer Interaction, April 2007.

**A Visual Language for Programming Tangible User Interfaces**

University College London Interaction Center, November 2005.

## MEDIA COVERAGE

NSF Grant Enables Wellesley's HCI Lab To Advance The Use Of Collaborative Interactive Technology for Interdisciplinary Research, **Wellesley News**:

<http://www.wellesley.edu/news/2015/december/node/79611>

Day in the Lab: Wellesley College HCI Lab, **Interactions Magazine**:

<http://interactions.acm.org/archive/view/may-june-2014/whci-lab-wellesley-college>

The Human Touch, **Wellesley Magazine**: [http://issuu.com/wellesley/docs/wellesley\\_fall13\\_issuu/13](http://issuu.com/wellesley/docs/wellesley_fall13_issuu/13).

HCI Lab Renovated with Generous Support of Amy Batchelor '88 and Brad Feld, **Wellesley College News**:

<http://www.wellesley.edu/news/2013/10/node/39877#sthash.qWAgM6Ze.dpuf>

GreenTouch: data capture, curation, and analysis via a multi-touch tabletop interface, **Research at Google**

**Blog:** <https://plus.google.com/+ResearchatGoogle/posts/LfVbcZY1E41>

Pinanski Honorees Represent Computer Science, English, and Psychology, **Wellesley College News**:

<http://www.wellesley.edu/news/2013/06/node/35989#sthash.Hqh7ulrP.dpuf>

Two of 11 Google App Engine Awards Go To Wellesley Faculty, **Wellesley College News**:

<http://new.wellesley.edu/news/2013/04/node/34790>

Google App Engine Education Awards, **Research at Google**:

[http://research.google.com/university/relations/appengine/education\\_awards.html](http://research.google.com/university/relations/appengine/education_awards.html)

Wellesley Scores Big at International Synthetic Biology Competition, **Wellesley College News**:

<http://new.wellesley.edu/news/stories/node/31416>

Tangible User Interfaces: Technology You Can Touch, **IEEE Computer**:



<http://www.computer.org/csdl/mags/co/2012/06/mco2012060015-abs.html>.

Then and Now Botany Notes, **Wellesley College News**:

<http://www.wellesley.edu/youarehere/renew/botany/node/26258>

Teaching Tree-Thinking Through Touch, **Science Daily**, Science News:

[http://www.sciencedaily.com/releases/2012/06/120604111121.htm?utm\\_source=feedburner&utm\\_medium=feed&utm\\_campaign=Feed%3A+sciencedaily+%28ScienceDaily%3A+Latest+Science+News%29](http://www.sciencedaily.com/releases/2012/06/120604111121.htm?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+sciencedaily+%28ScienceDaily%3A+Latest+Science+News%29)

Teaching Tree Thinking through Touch, **ACM Tech News**: <http://technews.acm.org/archives.cfm?fo=2012-06-jun/jun-06-2012.html>

Wellesley Genome Browser Uses Touch Technology to Enable Interactive Visualization of Sequence Data,

**Bioinform**:[http://www.genomeweb.com/node/989996?hq\\_e=el&hq\\_m=1145514&hq\\_l=4&hq\\_v=ee5be59dc1](http://www.genomeweb.com/node/989996?hq_e=el&hq_m=1145514&hq_l=4&hq_v=ee5be59dc1)

Profile of a Major: Media Arts and Sciences, **Wellesley Magazine**:

[http://issuu.com/wellesley/docs/2011\\_fall\\_issuu](http://issuu.com/wellesley/docs/2011_fall_issuu)

Microsoft Touch Mouse TUI.TAR, **Softpedia News**: <http://news.softpedia.com/news/Microsoft-Touch-Mouse-TUI-TAR-232164.shtml>

Meet the Winners of the UIST contest, Hrvoje Benko, **Microsoft Hardware Blog**:

<http://microsofthardwareblog.com/>

Engineering from Prank to Product, Jeanne Dietsch, **IEEE Robotics & Automation Magazine**:

[http://ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?arnumber=6016597](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=6016597)

Mass High-Tech Emerging Technology Forum Looks at Superhero Tech, James M. Connolly, **Mass High-Tech**:

<http://www.masshightech.com/stories/2011/06/20/daily55-MHTs-Emerging-Technology-Forum-looks-at-Superhero-tech.html>

Art app-reciation, Taylor Adams, **Boston Globe**:

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