

## Claudia Urrea

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### Research Interests

Design and promote new strategies to significantly transform formal development and appropriation of new digital technologies  
Study residential learning experience with online educational materials and blended learning models from theoretical, empirical, and policy perspectives  
Design and study new learning environments for teachers and students in developing countries  
Design of new mechanism and strategies to make learning visible, understandable, and actionable by different type of audiences

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### Education

Massachusetts Institute of Technology, Cambridge, MA	Ph.D. (Media Arts and Sciences)	Sept. 2007
Boston University, Boston, MA	M.Ed. (Ed Media and Technology)	June 2005
EAFIT University, Medellín, Colombia	B.S. (Computer Science)	June 1993

### Other Studies

Michelangelo Academy, Medellín, Colombia	Art History and Creativity	1977-1979
Rozo Arts Academy, Medellín, Colombia	Figure Drawing and Portrait	1980-1988

### Work experience

- MIT Office of Digital Learning, Strategic Education Initiative / Strategy, management and coordination for the new PreK-12 Initiative (March 2014 – present)
- MIT – Media Laboratory / Research scientist (October 2007 – present)
- OLPC / Director of Learning (September 2008 – March 2013)
- Inter-American Development Bank / Educational technology expert (November 2007 – October 2008)
- Center for Educational Computing Initiatives / Visiting research engineer (1994 - 1998)
- Center for Education Computing, EAFIT University, Colombia / Research scientist (1994 – 1998)

### Teaching experience

- Harvard University, Harvard Summer School
  - Study Abroad, An Anthropological Perspective on Media in Education: Montevideo, Uruguay (Summer 2010) and San José, Costa Rica (Summer 2008).
- Tufts University, Department of Child Development, (fall, 2002)
  - Technologies of The Self (graduate course)
  - Technological Learning Environments: Math, Science, Technology (graduate course)
- University of Costa Rica, Faculty of Education (fall, 2002)
  - "Seminar in advanced educational technologies" in collaboration with Bakhtiar Mikhak and Eleonora Badilla-Saxe.
- INCAE (Spring, 2002)
  - "A Model for Constructionist Development" In collaboration with Bakhtiar Mikhak and Eleonora Badilla-Saxe.
- The Built-It-Yourself Lab (1996 - 1998)

- Build your own scientific instrument
- Museum Explora, Colombia (Summer, 1999)
  - Robotics workshop (rural community children)
- EAFIT University
  - Constructing Knowledge workshop (Summer, 1997)
  - ADL programming language for undergraduate students, TA (1995-1996)

### Publications

- Bender and Urrea (2015) Visualizing Learning in Open-Ended Problem Solving in the Arts. RED - Revista de Educación a Distancia. Número 46. <http://www.um.es/ead/red/46>
- Bender, W., Solomon, C., & Urrea, C (2014). (More than) Twenty Things to Do in Turtle. In the Proceedings of Constructionism 2014. Vienna, Austria.
- Urrea, C. and Bender, W. (2012). Making Learning Visible. Mind, Brain, and Education Journal, Wiley Online Library 6: 227–241. doi: 10.1111/j.1751-228X.2012.01161.x
- Urrea C., Badilla-Saxe E., Miranda – Garnier X, Barrantes - Acuna D. (2012). Make To Think: Ideas, Spaces and Tools. Proceedings of Constructionism 2012. Athens, Greece.
- Urrea, C. (2012). Currículo e Tecnologia Digital: da teoria à prática. In P. Dias & A. J. Osório (Orgs.), TIC na educação: perspectivas de inovação (pp. 65-86). Braga: Centro de Competência da Universidade do Minho. ISBN: 978-989-97374-1-9
- Urrea, C.; Barragan, S.; Pérez, M.; Cuellar, P.; & Garcia, C. (2012). The Use of Scratch and its Impact in OLPC Learning Communities. Scratch conference at MIT.
- Mora, A.; Barragan, S.; and Urrea, C. (2012). "The One to One Model, One Laptop per Child, On the Strengthening of Education and Culture". Association for the Advancement of Computing Education (AACE) (Ed-Media 2012).
- Urrea, Claudia, Laserna, Catalina & Bianchi, Laura (2010). Cómo promover innovaciones de base con el XO: hacia una metodología que integra la etnografía con el diseño de intervenciones construccionistas. In the proceedings of the Ciudadanía Digital. Centro para la Inclusión Tecnológica y Social. Montevideo, Uruguay.
- Urrea, Claudia (2010). El Silencio: A Rural Community of Learners and Media creators. In New Directions for Youth Development ("Journal") published by Wiley Periodicals, Inc. 2011.
- Urrea, Claudia (2008). 1 to 1 Computing in Latin-American. IADB Internal paper.
- Urrea, Claudia (2007). "One to One Connections: Building a Community Learning Culture", Thesis (Ph. D.)--Massachusetts Institute of Technology, School of Architecture and Planning, Program in Media Arts and Sciences, 2007.
- Urrea, Claudia (2006). CREATE: Opportunities for Technology Appropriation. VIII Congreso Iberoamericano de Informática Educativa (RIBIE 2006), Costa Rica.
- Urrea, Claudia (Unpublished). "A holistic model for learning environments: technological saturation and school and community connections". Ph.D. Thesis Proposal, November 2004.
- Carrasquero, Jose; Welsch, Friedrich; Urrea, Claudia; Tso, Chen-Dong (eds.) (2003) Politics and Information Systems: Technologies and Applications, Proceedings of PISTA 2003. International Institute of Informatics and Systemics.
- Urrea, Claudia. (2003). Social Change. Published at Communications Initiative: News about communications and development. Issue No. 49 May, 2003.
- Urrea, Claudia. (2002). "Rethinking and Redefining the Development of Teachers as Generators of Change". VI Colombian Conference on Educational Technology - RIBIE (Iberoamerican Network on Educational Technology) EAFIT University Medellín, Colombia, July 10, 2002.
- Urrea, Claudia. (2002). "The Reflective Practice within a Constructionist Environment." Siglo Digital. No. 6 and 7. Mexico, Junio – Julio 2002.
- Urrea, Claudia. (2001). "Designing Robotic Artifacts: Rural School-Community Collaboration for Learning." Thinkcycle workshop. Boston, August 2001. A Spanish version of the same paper was published at the EDUTEKA <http://www.eduteka.org/> Cali - Colombia, October 2001.
- Urrea, Claudia (2001) "Learning, Robotics and Culture: A proposal for rural development." International Conference in Technology and Education (ICTE) Tallahassee, 2001.
- Bers, M. & Urrea, C. (2000) "Technological Prayers: Parents and Children Working with Robotics and Values." In *Robots for Kids: Exploring New Technologies for Learning Experiences*. Edited by A. Druin & J. Hendler.
- Bers, M. & Urrea C. (1999) "Con-science: Parents and Children Exploring Robotics and Values". In Proceedings of EUROLOGO'99, Sofia, Bulgaria, pp. 356-366.

- Zea, C.M., Trujillo, J., Atuesta, M. del R., Urrea, C. M. and Sanin, S. M. (1996) "Conexiones: An interactive learning environment." ED-MEDIA 96--World Conference on Educational Multimedia and Hypermedia and ED-TELECOM 96--World Conference on Educational Telecommunications. Boston, June 1996.
- Urrea, Claudia. (1995) "ADL: A Scripting Language for the Development of Multimedia Applications." Educational Computing Memo, Universidad EAFIT. Medellín, Colombia. June 1995.
- Urrea, Claudia and Orrego, Jaime. (1993) "Design of an Information System to Help a Non-Profit Organization with the Primary Care of Homeless Children." In Revista Universidad EAFIT, No. 93. Medellín, Colombia. November 1993.
- Urrea, Claudia and Orrego, Jaime. (1993) "An Information System for PAN, a Non-Profit Organization." B.S. Computer Science Thesis, Universidad EAFIT, Medellín, Colombia. May 1993.

### **Selected Presentations/Invited Talks**

- Urrea, Claudia. Disrupting the Classroom: Best Practices for PreK-12 Education. Americas Society/Council of the Americas. New York City. March 2015.
- Urrea, Claudia. "The Power of An Opportunity." TEDxBarcelonaEducation. February 2015.
- Urrea, Claudia. "Emprendimiento: oportunidades e implicaciones en el contexto de aprendizaje masivo". EmTech, Medellín, Colombia. February 2014.
- Bender, Walter and Urrea, Claudia. "Aprendiendo a Cambiar el Mundo", presentation at Exponegocios 2013. Asunción Paraguay. October 2013.
- Urrea, Claudia. "What kind of things are worthwhile learning?" Keynote presentation at the Buck Institute for Education · PBL World | Napa, California | June 18-22, 2012.
- Urrea, Claudia. "The potential of non-formal environments towards an engaging science learning". 6<sup>th</sup> Science Centre World Congress. Cape Town, South Africa. September, 2011
- Urrea, Claudia. "Making Learning Visible in the Context of 1:1 Learning". International School on Mind, Brain and Education: Education in the Digital Era. Erice, Sicily. August 2011.
- Urrea, Claudia. "Digital Curriculum in the context of one--to--one learning environments. VII International Conference on ICT in Education. University of Minho, Braga, Portugal. May 2011.
- Urrea, Claudia. "Una Revolucion Educativa". Webinar 2010. La integración de las TIC en la educación: modelos y perspectivas, IPE-UNESCO, Sede Regional Buenos Aires y FLACSO. Buenos Aires, Argentina. Noviembre, 2010.
- Urrea, Claudia. "Un Aprendizaje por Niño". Edutec'2010. Bilbao, Spain. Noviembre, 2010
- Urrea, Claudia. "Enseñando en Entornos Digitaless". Congreso de Educación. Buenos Aires, Argentina. July 2010
- Urrea, Claudia. "Emerging New Models of Teaching and Learning." Maine, USA. June, 2010
- Urrea, Claudia. "Nuevas Formas de Aprender y Enseñar". Montevideo, Uruguay. December, 2009
- Urrea, Claudia. "Modelo Educativo para Escuelas Unidocentes". San Jose, Costa Rica. December 2007
- Urrea, Claudia. "Experiencia de Colombia e innovaciones Tecnológicas en la Educación rural". En la misión del BIRF. San Jose, Costa Rica. Febrero, 2003
- Urrea, Claudia. "Rethinking and Redefining Teacher's development as Generators of Change". VI Congreso de Informatica Educativa. Medellín , Colombia. July 11, 2002
- Urrea, Claudia. "Design of Robotic Artifacts to Enhance Different Learning Environments." Technology Tools for Teaching and Learning Conference. Puerto Rico, December 2001
- Urrea, Claudia. "Robotics to support learning within Rural Communities."
  - Tecnoeduca – San Salvador - El Salvador, September 2000.
  - Tecnoeduca – Guatemala City – Guatemala, November 2000.
- Galinato, J., Urrea, C. and Resnick, M (1999). "Beyond Black Boxes". In MIT Wiring the Classroom Conference: Moving Beyond Access in K-12 Education. Cambridge, 1999.
- Urrea, Claudia. "Innovations in Educational Technology". Colciencias, Bogotá - Colombia, March 1999.

### **Volunteer Work**

- The Computer Clubhouse at the Computer Museum. Massachusetts. (1996 – 1999)
- The Built-It-Yourself Lab. (1996 - 1998)
- Santa Ana Asylum. Medellín, Colombia. (1990-1992)

### **Awards**

- LEGO Fellowship, MIT, 1999-2004