

SHORT BIO

Holmes' installation work explores the potential of technology to promote positive environmental stewardship. Recent projects include a commission for the National Center for Supercomputing Applications where sequences of experimental animations visualize real time energy loads. Her paper detailing this work, "Eco-visualization: Combining art and technology to reduce energy consumption," won a *Best Paper* award at *Creativity and Cognition 2007*. She lectures and exhibits worldwide in these venues: Museum of Contemporary Art Chicago, J. Paul Getty Museum in Los Angeles, *Digital Salon '99*, *Viper* in Switzerland, *Next 1.0* in Sweden, Siggraph 2000, *World@rt* in Denmark, *Interaction '01* in Japan, *ISEA Nagoya*. A recipient of the Michigan Society of Fellows research fellowship in 1998, Holmes has earned an Illinois Arts Council individual grant and an Artists-in-Labs residency award in Switzerland. Holmes is Associate Professor, and former Chair of the Department of Art and Technology at the School of the Art Institute of Chicago where she teaches courses in computer programming for artists, interaction design, eco-art, and the history and theory of electronic media.

CURRENT POSITION

Associate professor and former Chair, Department of Art and Technology Studies, School of the Art Institute of Chicago, January 2001—.

EDUCATION

- MFA** 1996-1999 **Imaging and Digital Arts.** University of Maryland, Baltimore County, Baltimore, MD. Awarded graduate student assistantship and merit award.
- MFA** 1992-1996 **Painting.** Maryland Institute, College of Art, Baltimore, MD. Coca-Cola fellowship recipient.
- BA** 1986-1990 **Art History.** Minor in Environmental Studies. Williams College, Williamstown, MA. Graduated *cum laude*.

EXHIBITION EXPERIENCE**•SOLO SHOWS OR COMMISSIONS**

- 2009 **darkSky**, interactive electricity visualization at Chicago's Museum of Contemporary Art UBS 12 x 12 New Artists/New Work exhibition
- 2008 **Fresh 2.0**, animation commissioned by Visual Foreign Correspondents for exhibition on outdoor video projections; exhibition premieres in Amsterdam.
- 2008 **World Offset**, interactive website that allows individuals from all over the world to make carbon offset promises to change a visualization. Launched for premiere of *EcoAesthetics* exhibition in Den Haag, Holland. (See worldoffset.org)
- 2007 **LakeWalk**, interactive video installation, artist commission for Art 44/46, Chicago, IL.
- 2006 **Floating Point: water quality workshop**, commissioned by Upgrade! International DIY, Oklahoma City, OK.

- 2006 ***Your Face is Safe With Me***, iEAR Studios, Arts Department at Rensselaer Polytechnic Institute.
- 2006 ***7,000 oaks and counting***, public art commission for the National Center for Supercomputing Applications (NCSA), Urbana, IL.
- 2006 ***FRESH***, commission from the City of Chicago/Lakeview Chamber of Commerce.
- 2005 **Delaware Center for the Contemporary Arts**, Project Space, Wilmington, DE.
- 2004 **Online: *Floating Point***. Featured Net Art News Art Object at Rhizome (December 17).
- 2004 ***SeeYouPlayMe***, Jean Albano Gallery, Chicago, IL.
- 2002 ***Pet Ambitions***, Merwin art gallery, Illinois Wesleyan Univ., Bloomington, IL. *Fishbowl*, *Bearhunt*, and *Follow the Mouse* exhibited.
- 2000 ***The Culture of Breath***, Meyers Gallery, Living Arts Foundation, Tulsa, OK.
- 2000 ***Nosce Te Ipsum***, University of Michigan Media Union, Ann Arbor, MI.
- 1999 ***Phene-***, MFA Thesis Show. Fine Arts Gallery, UMBC, Baltimore, MD.
- 1998 ***New Paintings***. William Street Artist's Cooperative, Ann Arbor, MI.
- 1998 ***Littoral Zone***. School 33 Art Center, Baltimore, MD.
- 1997 ***MarkSPOT***. Student photography gallery, UMBC, Baltimore, MD.
- 1996 ***Archaic Departures***, MFA Thesis Show. Fox Gallery, MICA, Baltimore, MD.
- 1994 ***Woman as Chimera***. Tuttle Gallery, McDonough School, Pikesville, MD.

EXHIBITION EXPERIENCE

•INTERNATIONAL VENUES

- 2008 <>***TAG EcoAesthetics*** exhibition, the Hague/Amsterdam, Holland.
- 2005 ***Fusion '05***, KKL Kunstmuseum, Lucerne, Switzerland.
- 2004 ***EAWAG, Floating Point performance***, Zürich, Switzerland.
- 2003 ***Thailand First New Media Art Festival 2003***, Chiang Mai, Thailand.
- 2002 ***ISEA Nagoya, Follow the Mouse***, installation, Japan.
- 2001 ***Interaction '01***, biennial, International Academy of Media Arts and Sciences, Japan.
- 2000 ***World@rt, Nosce Te Ipsum*** installation and artist's talk, Aalborg, Denmark.
- 1999 ***Digital Salon***. School of Visual Arts, New York, NY and Barcelona, Spain.
- 1999 ***Viper: International Festival for Film and New Media***, Lucerne, Switzerland.

•SELECTED GROUP SHOWS

- 2009 ***Your face is safe with me***, in *Balance and Power: Performance and Surveillance in Video Art* at the Museum of Contemporary Art, Jacksonville, Florida.

- 2007 **Speculative Data and the Creative Imaginary**, National Academy of Sciences, Washington D.C.
- 2006 **Ecopoetics**, Finger Lakes Environmental Film Festival, Ithaca, NY.
- 2006 **Global Crossings** in Leonardo Electronic Almanac, curated by Dennis Summers and Choy Kok Kee.
- 2005 **Balance and Power: Performance and Surveillance in Video Art**, Krannert Art Museum, curated by Michael Rush, Urbana, IL.
- 2005 **The Upgrade! International**, exhibition and conference, Eyebeam, New York, NY.
- 2005 **Drawn to Drawing**, Betty Rymer Gallery, Chicago, IL.
- 2004 **Tart**, curated by Sabrina Raaf, Klein Art Gallery, Chicago, IL.
- 2003 **Two-person show**, Indianapolis Art Center, Indianapolis, IN.
- 2003 **Reshaping the Text: The Book As Evidence**, inaugural programming of the New Center for Arts and Culture, Mobius Gallery, Boston Cyberarts Festival, Boston, MA.
- 2003 **Double-clicks and DPI: Digital Media in Contemporary Art**, Dowd Fine Arts Gallery, State University of New York College at Cortland.
- 2003 **Art on the Digital Edge**, Academy Museum, Easton, MD.
- 2002 **Art Chicago 2002, Jean Albano Gallery**, Navy Pier, Chicago, IL.
- 2001 **Devices of Wonder: From the World in a Box to Images on a Screen**, J. Paul Getty Museum, curated by Barbara Stafford and Frances Terpak, Los Angeles, CA. Site specific installation commissioned by the Getty Research Institute.
- 2001 **Follow the Mouse**, at ART/TECH, *Art: The Next Generation*, Jean Albano Gallery, Chicago, IL. Also, interactive performance, "Follow the Mouse", August 9, 2001.
- 2000 **Siggraph Art Gallery, Nosce Te Ipsum**, New Orleans, LA. Installation featured in the *New York Times*, *The Living Arts*, front page, August 1, 2000.
- 2000 **Sensitivities/Sensibilities: Interactive Art**, Invisible Museum, Denver, CO.
- 1999 **Chromosome Forest**. Boston CyberArts Festival, Museum of Science, Boston, MA.
- 1999 **State of the Arts**. The Galleries at Salisbury State University, Salisbury, MD.

INVITED PAPERS + LECTURES + WORKSHOPS

- 2009 **Greenmedia Futures: Using Art and Technology to Promote Sustainability**, lectures given at Marywood University, Northern Illinois University, and Northwestern University.
- 2009 **DIY Solar Sculptures**, an interactive workshop delivered at Chicago's Museum of Contemporary Art as part of the Saturday Shorts series, and also given at Northern Illinois University in DeKalb as an invited speaker.
- 2008 **Greenmedia Futures: Using Art and Technology to Promote Sustainability**, panel organization and introductory lecture, College Art Association annual conference, Dallas, TX. Subsequent lectures given at: University of Illinois at Chicago and DXArts in Seattle, WA.

- 2007 **Invited artist's lecture**, Art Institute of Chicago.
- 2007 **Eco-visualization** panel, sponsored by Eyebeam, Conflux Media Festival, NYC.
- 2007 **"Eco-visualization: Combining art and technology to reduce energy consumption,"** Creativity and Cognition conference, Washington D.C. Won "Best Paper" Award.
- 2007 **"C6: The Art World is Flat: Globalism—Crisis and Opportunity,"** presentation at symposium at Art Chicago 2007.
- 2006 **"Environmental Awareness through Eco-visualization,"** artist presentation at *ISEA2006/ZeroOne* festival, San Jose, CA.
- 2006 **"About Face Interface: Creative Engagement in New Media Arts and HCI,"** workshop presentation at the Computer Human Interaction conference, Montreal, Canada.
- 2005 **"New Media Earthworks: History and Contemporary Directions,"** Bangkok University and Chiang Mai University, Thailand.
- 2005 **Digital Arts Forum: Interactive Media Art and Design: Pedagogy, Practice, Tools,** at Sripatum University, Bangkok and Chiang Mai University, Thailand.
- 2005 **"Teaching Programming in the Art School Context,"** Share, Share Widely: New Media and its Discontents, City University of New York.
- 2005 **"Hacking Big Brother: Media Artists and Surveillance Culture,"** Towson State University and Northwestern University.
- 2004 **"Further trends in the Art Game Genre,"** ISEA '04, Helsinki, Finland.
- 2003 **"Arcade Classics Spawn Art? Current Trends in the Art Game Genre."** Digital Art and Culture, Melbourne, Australia.
- 2002 **"What do computers eat? Teaching beginners to think critically about technology and art,"** Educators' Panel, Siggraph 2002, San Antonio, TX.
- 2002 **"Art games and Breakout: New media meets the American arcade."** Art Gallery, Siggraph 2002 and the Computer Games, Digital Cultures conference in Finland.
- 2002 **Artist's talk.** Center for Art and Technology, Northwestern University, Evanston, IL.
- 2001 **"The Archaeology of Gesture."** Paper given at the 8th Biennial Symposium on Arts and Technology, Connecticut College's Ctr. for Arts and Technology, New London, CT.
- 2000 **"Rendering the Viewer Conscious: Interactivity and Dynamic Seeing."** Paper for Barbara Stafford's panel titled: "Consciousness: Connecting Neuroscience to the Art of Seeing Thought." CAA annual conference, New York, NY.
- 2000 **"Virtual Paper Dolls: Unfolding the Digital Body."** Paper given at session, "Creating Content for Interactive New Media" at Next 1.0 (New Extensions of Existing Technologies), Karlsdad, Sweden.
- 2000 **"Performing Virtual Dissection."** Paper to be given at Consciousness Reframed 2000, 3rd International Conference on Art, Technology, and Consciousness, Center for Advanced Inquiry in the Interactive Arts, University of Wales College, Newport, UK.

- 1999 **“Phene- : Creating a Digital Chimera.”** Festival presentation in the “Sketches and Applications” program, SIGGRAPH ‘99, Los Angeles, CA.
- 1999 **“Early Modern Flap Anatomies: Pedagogical, Aesthetic, and Scientific Reverberations.”** Symposium paper titled “Nervous Fluids and Innards in Early Modern Physiology and Culture” given at the International Society of the History of Neuroscience in Zurich, Switzerland.
- 1999 **“Littoral Zone: Seeing Bodies and Letters in Cyberspace.”** Paper given at “Minds, Machines, and Electronic Culture,” the Seventh Biennial Symposium on Arts and Technology at Connecticut College, New London, CT.

PUBLICATIONS

“Searching for stories in the sea of data: Promoting environmental stewardship through eco-visualization,” *Journal of Museum Education*, summer 2007.

Ecoviz.org, a self-published blog, initiated December 2006.

“Environmental Awareness through Eco-visualization: Combining Art and Technology To Promote Sustainability.” *Reconstruction 6.3: Studies in Contemporary Culture* on “Water: Resources & Discourses,” summer 2006.

“Floating Point: A Creative Visualization of Water Quality,” residency report, in *Artists-In-Labs: Processes of Inquiry*, editor, Jill Scott, Springer Press, 2006.

“The Mighty Mouse: Communicating addiction research through computer art,” *Intelligent Agent*, thread: biotech/transgenics, Winter-Summer 2003, <http://www.intelligentagent.com/>.

“Arcade Classics Spawn Art? Current Trends in the Art Game Genre.” *Fine Arts Forum*, 2003.

“What do computers eat? Teaching beginners to think critically about technology and art,” in *Computers and Graphics*, Elsevier, June 2003, Volume 27, No. 3, pages 361-368.

“Performing Virtual Dissection,” in *Art, Technology, Consciousness*, London: Intellect Books, 2000.

“The Corporeal Stenographer: Language, Gesture, Cyberspace,” published in conjunction with catalogue of international traveling exhibit, *The Digital Salon. Leonardo Almanac: International Resources in Art, Science, Technology*, Volume 32, Cambridge, MA: MIT Press, 1999.

ARTIST AWARDS AND GRANTS

Artist’s residency, at NOCCA/Riverfront, New Orleans, LA, 2008.

Nominee, Zero One San Jose Prix Green for Environmental Art, 2008.

Nominee, Richard H. Dreihaus Foundation, Individual Artist Award, 2007.

Chairman's Service Award, Art Institute of Chicago, 2007.

Wisconsin Per Cent for Art, design commission finalist, 2006.

State of Illinois, Capital Development Board, public art commission, 2005.

Artist-in-Labs Award, Five-month residency in computer science laboratory, Zürich, Switzerland, 2004.

Delaware Center for the Contemporary Arts, “Art and Community Residency,” Wilmington, 2004.

Illinois Arts Council, Artists' Fellowship Award, Interdisciplinary/Performance Art, 2002-03.

Nominee, Rockefeller Foundation New Media Fellowship, 2002.

Roger Brown Residency, New Buffalo, MI, 2001.

University of Michigan Society of Fellows, Ann Arbor, MI, 1998. Awarded a three-year research fellowship to research and work with an interdisciplinary community of scholars.

Rackham Summer Interdisciplinary Institute, Ann Arbor, MI, 2000. Awarded a fellowship to research and work with an interdisciplinary group of scholars to create an interactive art exhibit and panel.

Phi Kappa Phi Honor Society, College Park, MD, 1996.

Coca-Cola Fellowship, Maryland Institute, College of Art, 1992-96. MFA tuition award for students who demonstrate exceptional leadership abilities in the arts and education.

Thomas W. Hardie Award in Environmental Studies, Williamstown, MA, 1990. Received graduation prize for solo show, *Altered Berkshire Landscapes*.

Miller Grant, Williamstown, MA, 1989. Awarded funds to create a series of paintings about land use.

ARTS - IN - EDUCATION AWARDS AND GRANTS

Canton Cyberspace, Baltimore, MD, 1995-96. Awarded grant from the Fund for Educational Excellence to pursue a computer project dealing with the "oral histories" of inner city middle school students.

Passport to Africa, Baltimore, MD, 1994-95. Awarded grant from the Fund for Educational Excellence to pursue a bookmaking project.

Studio 13 Coordinator, Baltimore, MD, 1993-94. Awarded funds from the MD Student Service Alliance to develop a service-learning program for arts-talented, at-risk youth. Students collaborated to produce window installations in local storefronts.

Kidwitness News Coordinator, Baltimore, MD, 1994-96. Awarded grant from Panasonic to create a video news program at an urban middle school.

Mural Painting, Baltimore, MD, 1993-94. Awarded grant from school beautification committee to paint murals on the playground.

Native American Weaving, Baltimore, MD, 1993-94. Awarded grant from the Fund for Educational Excellence to coordinate a weaving project.

I Have A Dream, Baltimore, MD, 1992-93. Awarded grant from school principal to create a quilt recording students' messages to President Clinton. Students presented this quilt to the presidential staff during the inaugural festivities in Washington D.C.

Teacher of the Year, Bakers Elementary School, Scotland Neck, NC, 1991.

IPECS (Interdisciplinary Project for Experimental Course Studies), Williams College, Williamstown, MA. 1988-90. Awarded monies to create and facilitate a full-credit college-level semester course called *Nonviolence and Social Change*.

SELECTED BIBLIOGRAPHY

- Alan G. Artner, "Holmes makes a compelling artistic point," *Chicago Tribune*, April 10, 2009.
- ArtBeat Chicago, "Zach: Living, Breathing Computer Mouse," Profile on Holmes' project aired on WTTW/Channel 11, 2001. Summary available online: <http://www.wttw.com/artbeat/misc.html#zach>.
- Jay David Bolter and Diane Gromala, *Windows and Mirrors: Interaction Design, Digital Art, and the Myth of Transparency*, MIT Press, 2003.
- Carl DiSalvo, Kirsten Boehner, Nicholas A. Knouf, Phoebe Sengers, "Nourishing the Ground for Sustainable HCI: Considerations from Ecologically Engaged Art," *Proceedings CHI 2009, ACM Ext. Abstracts of CHI 2009*, ACM Press 2009.
- Chicago Sun-Times, "Artist directs her energy toward informative art," April 10, 2009.
- Carrie Frillman, "Solar-powered project celebrates Women's History Month," *Daily Chronicle*, DeKalb County, IL.
- Jen Q. Goddu, "Artists explore the world through playful means," *Chicago Tribune*, March 12, 2004.
- Mike Guiliano, "Art: More than Meets the Eye," *Baltimore City Paper*, May 6-May 12, 1998.
- Peter Hall, "Seeing green: Designing for conservation," Adobe Think Tank, July 17, 2007. Available online: <http://www.adobe.com/designcenter/thinktank/peterhall.htm>
- Susan Hamilton, "Art on the Digital Edge, exhibition catalogue, Academy of Fine Arts, Easton, MD, 2003.
- Alan S. Inouye (Editor), Marjory S. Blumenthal (Editor), William J. Mitchell, *Beyond Productivity: Information, Technology, Innovation, and Creativity*, National Academies Press, 2003.
- Helen Varley Jamieson, "A Vision of Pollution," Net Art News, Rhizome.org at the New Museum, December 17, 2004.
- Cara Jepson, "The works of a very talented young rodent," *Chicago Reader*, August 3, 2001.
- Trey Kay, producer for NPR's *Studio 360: Creative Minds Go Green* show on April 18, 2008. Available online: <http://www.studio360.org/episodes/2008/04/18/segments/96762>
- Alessandro Ludovico, review in *Neural Magazine*, December 20, 2004. (<http://www.neural.it/nnews/floatingpoint.htm>)
- Rick Lyman, "Bracing for Animation's Big Leap," *New York Times Living Arts* cover story, August 1, 2000.
- Max Melgaard, "Kunst som De aldrig har set den for," *LevGodt* (Denmark), September 29, 2000.
- Gary Mullinax, "Caught on camera, purely for art's sake," *Wilmington News Journal*, March 13, 2005.
- Madeline Nusser, "Drawn to Drawing," *Time Out Chicago* p.51, May 12-19, 2005.
- Michael O'Sullivan, "Digital Doings on the Eastern Shore," *Washington Post*, March 14, 2003.
- Kathryn Rosenfeld, "End of an epicenter," *Chicago Journal*, April 29, 2004.
- Michael Rush, "Video Art," Thames & Hudson, new edition forthcoming summer 2007.
- Jason Spingarn-Koff, "Demo This! Boston Cyberarts Festival," Rhizome.org at the New Museum, May 17, 1999.

Barbara Maria Stafford, "Revealing Technologies/Magical Domains," in Barbara Maria Stafford and Frances Terpak's exhibition catalog, *Devices of Wonder: From the World in a Box to Images on a Screen*, Getty Museum Publications, 2001.

Ann Sterzinger, "Of Mice and Men," *Chicago Reader*, April 2, 2004.

Stephen Wilson, "Motion, Gesture, Touch, Gaze, Manipulation, and Activated Objects," in *Information Arts: Intersections of Art, Science, and Technology*, MIT Press, 2002. Available online at: <http://userwww.sfsu.edu/%7Einfoarts/links/wilson.artlinks2.html>.

Michael Workman, "Welcome to the Machine," *New City Chicago*, April 1, 2004.

CURATORIAL EXPERIENCE

EcoAesthetics exhibition at <TAG> in Den Haag, Holland. Co-curated with Hicham Kalidi. See documentation for more information: <http://www.tag004.nl/new/system/main.php?pageid=451>.

Tree Tracks: Branching Beyond the Disciplinary, Univ. of Michigan Media Union Video Gallery, 2000. Interdisciplinary collaboration between ten University of Michigan professors, interactive installation and gallery display, see documentation: <http://www.umich.edu/~arts/treetracks>.

Axon, Univ. of Michigan Cyberarts Gallery, WWW publication: <http://www.umich.edu/~arts/axon>, 2000.

Surrealist Games, WWW publication: <http://www.umich.edu/~tgholmes/bbbwebsite/games.html>, 2000.

Interactive Computer Art: Student Show, Canterbury House, Ann Arbor, 1999.

What We Need To Know About Art, Maryland Art Place, 1994. Participated in a collaborative effort to produce a show that highlighted the work of African-American artists.

African American Story Quilts, Williams College Museum of Art, 1989. Interviewed quilt artists for catalogue essay written by Professor Eva Grudin.

TEACHING EXPERIENCE

Associate professor and Chair, Department of Art and Technology Studies, School of the Art Institute of Chicago, Chicago, IL, 2001—. All classes have online syllabi: <http://www.tiffanyholmes.com/Teaching/teaching.html>

- ART HISTORY: History and Theory of Art and Technology
- ART HISTORY: New Media Earthworks soon to be renamed "Earthworks, Ecoart, Ecovisualization"
- ARTTECH STUDIO: Programming for Algorithmic Drawing Systems
- ARTTECH STUDIO: Fundamentals of Art and Technology
- ARTTECH STUDIO: Interactive Multimedia
- GRADUATE SEMINAR: Performing Interactivity
- ARTTECH STUDIO: The Art of Surveillance

Assistant professor, University of Michigan, School of Art and Design, Ann Arbor, MI, 1998-2000.

OTHER TEACHING EXPERIENCE

•PUBLIC SCHOOL

Media Specialist, Canton Middle School, Baltimore, MD, 1994-1996. Created research units that aligned technology with school curriculum, instructed students and faculty in use of multimedia software.

Art Educator, Canton Middle School, Baltimore, MD, 1992-1994.

Teach for America Corps Member, 1990-present. One of 500 graduates recruited to teach in inner city and rural areas of the country. (Part of President Clinton's Americorps.)

Fourth Grade Teacher, Bakers Elementary School, Scotland Neck, NC, 1990-92. Voted *Teacher of the Year* in 1991.

SPECIAL STUDY

Instituto de Allende, San Miguel de Allende, Mexico, 1994. Took classes in landscape painting.

Penland School, Penland, NC, 1993. Completed an immersive program in papermaking and fibers.

Center for Wildlife Management, Kenya, 1989. Assisted in field research on a game ranch.