

# BENJAMIN GROSSER

bengrosser.com

## EDUCATION

M.F.A., Studio/New Media, University of Illinois, 2013 (expected)

M.M., Music Composition & Theory, University of Illinois, 1995

B.M., Music Composition & Theory, University of Illinois, 1994

## PROFESSIONAL POSITIONS

### School of Art + Design, University of Illinois at Urbana-Champaign

2012                      Research Assistant, Re-Framing the Online Video Archive (NEH #HD-51246-11)  
2011-2012              Teaching Assistant (Instructor of Record), Interaction I & Interaction II  
2010-2011              Research Assistant, Creator and Developer, Interactive Robotic Painting Machine

### Beckman Institute for Advanced Science and Technology, University of Illinois at Urbana-Champaign

2006-2008              Director, Imaging Technology Group  
2001-2006              Co-Director, Imaging Technology Group  
1998-2001              Manager, Visualization, Media and Imaging Laboratory  
1996-1998              Research Programmer, Digital Visualization Facility

### School of Music, University of Illinois at Urbana-Champaign

1993-1996              Research Assistant, Programmer, Digital Applications in Computer Music  
1994-1995              Teaching Assistant, Music Composition-Theory

## GROUP EXHIBITIONS

"Form Follows Software," *Vault Gallery, ASU*, Phoenix, AZ, Aug-Dec, 2012 (forthcoming). +  
"You, I, You See," *Co-Prosperity Sphere*, Chicago, IL, Mar. 2012.  
"30/30," *Address Gallery*, Champaign, IL, Oct 2011. +  
"Engage!," *Link Gallery*, Champaign, IL, Aug-Sep 2011.  
"Accepted Knowing," *Figure One*, Champaign, IL, Jul-Aug 2011. \*  
"PXL," *Anka Gallery*, Portland, OR, April 2011. \*  
"Artsplasia," *Co-Prosperity Sphere*, Chicago, IL, April 2011.  
"Group Show," *Independent Media Center*, Urbana, IL, April 2008.  
"Massive Change" by Bruce Mau, *Museum of Contemporary Art*, Chicago, IL, 2006.  
"calcul\*rt," *Krannert Art Museum*, Champaign, IL, Mar-Apr, 2006. +  
"School of Art + Design Faculty Art Exhibition," *Krannert Art Museum*, Champaign, IL, Sep-Oct, 2006.  
"Computer Animation Festival," *SIGGRAPH 2005*, Los Angeles, CA, August, 2005. \*  
"Wired NextFest," *Navy Pier*, Chicago, IL, June, 2005.  
"Affixed," *High Cross Road Studio*, Urbana, IL, October, 2003. \*  
"Postcards for Peace," *Café Paradiso*, Urbana, IL, 2002.  
"Recent Works," *MAVerick Festival*, University of Illinois, Urbana, IL, 2002. +  
"Computer Animation Festival," *SIGGRAPH 1997*, Los Angeles, CA, August, 1997. \*

## SOLO EXHIBITIONS

"n to Watch," *Figure One*, Champaign, IL, February, 2012. \*  
"Recent Works: Large and Small," *OJC Technologies: Boneyard Arts Festival*, Urbana, IL, 2003.  
"Paintings, 1997-2001," *Sandwich Boy*, Urbana, IL, 2001.

## MULTIDISCIPLINARY ART PERFORMANCES

*Head Swap*, for amplified violin and interactive robotic painting machine. Collaborative work with composer Zack Browning (music by Browning, robotic machine by Grosser). *Krannert Center for the Performing Arts*, Urbana, IL. 26 Apr. 2011

## SELECTED ART PRESS

- "Facebook's new plugin: become popular with a click)." *teenk* [Israel] 23 Apr. 2012.
- "Extension that would make you feel loved on Facebook)." *כרשת חורים* [Israel]. 23 Apr. 2012.
- Campanelli, Vito. "Flexible Pixels by Benjamin Grosser." *Beautifully Imperfects* [Italy] 18 Apr. 2012.
- Marangoni, Agustín. "Benjamin Grosser." *Elefante Pixelado* [Argentina] 18 Apr. 2012.
- "Flexible Pixels." *The New Aesthetic* 11 Apr. 2012.
- "Pause: Is the pixel the most fundamental way to view reality? One artist explores the possibility." *Kill Screen* 11 Apr. 2012.
- Burke, Stephanie. "Top 5 Weekend Picks." *Bad at Sports: Contemporary Art Talk* [Chicago] 23 Mar. 2012.
- "Weekly Pick: You, I, You See at Co-Prosperity Sphere." *Chicago Art Magazine* 22 Mar. 2012.
- "Toile robotique." *DébrouillARTS* [Canada], pp. 4-5, Mar. 2012.
- "Recording of Not Pitch Released on CD/Digital." *Creative Computation Daily* 4 Mar. 2012.
- גרוסר בנימין (Benjamin Grosser)." *אודיסיאה (Odyssey)* [Israel] Issue 14, pp. 50-51, Jan. 2012.
- Sung, Jihye Chang. "로봇트, 클래식 음악, 미술." *야사의 음악과 커피 이야기..and more* [Korea] 16 Jan. 2012.
- Ares, F. "Interactive Robotic Painting Machine, el arte como diálogo tecnológico." *Roboteknia* [Mexico] 1:3, pp. 25-26, Jan. 2012.
- Bowling, Drew. "Reload The Love! App Assesses Facebook's Emotional Utility." *WebProNews.com* 4 Jan. 2012.
- Eaton, Kit. "This Year In Bots." *FastCompany.com* 30 Dec. 2011.
- "聽到什麼就畫出什麼的機器." *Make:Blog* [Taiwan] 24 Nov. 2011.
- "Is It Art?" *Montreal Mirror* [Canada] 24 Nov. 2011.
- 王亭云. "繪畫機器人聽自己 大搞抽象藝術!" *NOWnews (nownews.com)* [Taiwan] 22 Nov. 2011.
- Staedter, Tracy. "Robot Paints Its Feelings." *Discovery News (news.discovery.com)* 18 Nov. 2011.
- "Robot que pinta de acuerdo a lo que escucha." *isopixel.net* [Mexico] 15 Nov. 2011.
- "Benjamin Grosser's Amazing Interactive Robotic Painting Machine." *Kunst + Xoias* 14 Nov. 2011.
- Richardson, Matt. "A Machine That Paints What It Hears." *Make:Blog* [USA] 12 Nov. 2011.
- Derringer, Jaime. "Rise of the Machines... That Paint." *USA Network Character Blog* 2 Nov. 2011.
- "Interactive art painting machine uses python, genetic algorithms, and max/msp." *Hacker News (homepage)* 22 Oct. 2011.
- "Franken Design." *Design Bureau (wearedesignbureau.com)* 11 Oct. 2011.
- "Interactive Robotic Painting Machine." *Undressed Design (undressed-design.com)* [France] 3 Oct. 2011.
- "Mind Blow #26." *YouTube.com (http://www.youtube.com/watch?v=FEPxB3uWIM8)* 2 Oct. 2011.
- Reilly, Andrew. "Interactive Robotic Painting Machine by Benjamin Grosser." *Huffington Post* 20 Sep. 2011.
- "As pinturas realizadas pelo robô-artista de Benjamin Grosser." *Tecnoarte News* [Brazil] 20 Sep. 2011.
- "Interactive Robotic Painting Machine by Benjamin Grosser." *Juxtapoz Magazine*. 20 Sep. 2011.
- "The machine responds to sounds in its environment." *The New Aesthetic*. 7 Sep. 2011.
- Mizukami, Memi. "ベンジャミン・グロッサー (Benjamin Grosser)," (Interview). *SHIFT (shift.jp.org)* [Japan] 2 Sep. 2011.
- "AI Painting." *Tenlegs Blog (tenlegs.com)* 1 Sep. 2011.
- LaBarre, Suzanne. "A Painting Robot With An Ego As Fragile As A Real Artist's." *FastCoDesign.com* 31 Aug. 2011.
- "비평가가 말하는대로 그림을 그리는 로봇." *Make: Blog* [Korea] 31 Aug. 2011.
- "Interactive Robotic Painting Machine." *ProcessProduced.org* 31 Aug. 2011.
- Charlie. "Máquina que pinta mediante Inteligencia Artificial." *Maquiladora de Sueños* [Mexico] 30 Aug. 2011.
- Mileti, Saulo. "Robotic Painting: Quadros pintados segundo os sentidos de uma máquina." *Brainstorm9.com* [Brazil] 30 Aug. 2011.
- "Inspiração artificial." *Assim...Uma Brastemp (assimumabrastemp.com.br)* [Brazil] 30 Aug. 2011.
- Holmes, Kevin. "Abstract Expressionism, Painted By A Robot." *thecreatorsproject* [USA] 29 Aug. 2011.
- "Interactive Robotic Painting Machine." *A:New Day.s Work (anewdayswork.com)* 29 Aug. 2011.
- Ramachandran, Shivangi. "The Robot Artist." *portable.tv* 29 Aug. 2011.
- Neely, Jamie. "The Robot Painting Machine by Benjamin Grosser is Unreal." *trendhunter.com* 26 Aug. 2011.
- "Interactive Robotic Painting Machine." *todayandtomorrow.net* 25 Aug. 2011.
- Николенко, Олесь. "Рисующая машина-робот." *top10.ua* [Ukraine] 25 Aug. 2011.
- Marangoni, Agustín. "Benjamin Grosser; el arte es un diálogo tecnológico." *Tecniarts.com* [Spain] 24 Aug. 2011.
- "Kann dieser Roboter Bilder von Da-Vinci kopieren?" *robonews.de* [Germany] 24 Aug. 2011.
- "Ρομπότ ζωγραφίζει μετά μουσικής." *systemgraph\_ (blog.systemgraph.gr)* [Greece] 24 Aug. 2011.
- Kabini, Sara. "Robotic Painting Machine." *Protein (prote.in)* 22 Aug. 2011.
- McGurrin, Jim. "Ben Grosser - Interactive Robotic Painting Machine." *Examiner.com* 21 Aug. 2011.
- Guillaume, Alexis. "Le robot-peintre." *thecreatorsproject* [France] 19 Aug. 2011.
- "Benjamin Grosser: Interactive Robotic Painting Machine." *designboom.com* 19 Aug. 2011.
- Dzieliński, Krzyszek. "Maszyna, która maluje dźwięki." *geekweek.pl* [Poland] 19 Aug. 2011.
- Baichtal, John. "Robotic Painting Machine Listens to Critics." *Make: Blog* 19 Aug. 2011.
- Rénauld, Par. "Un robot artiste peintre." *Gizmodo* [France] 19 Aug. 2011.
- Relyea, Don. "Update to Ben Grosser's Interactive Robotic Painting Machine." *Don Relyea's Blog* 19 Aug. 2011.
- Sande, Steven. "Macs as artist: The interactive robotic painting machine." *TUAW.com* 19 Aug. 2011.
- Brundage, Douglas. "Benjamin Grosser: Interactive Robotic Painting Machine." *Hypebeast.com* 18 Aug. 2011.

Benchoff, Brian. "Robotic artist listens to our criticism." *HackaDay.com* 18 Aug. 2011.

Motal, Julius. "This robot uses artificial intelligence to paint based on the sounds it hears." *geek.com* 18 Aug. 2011.

"Robotic Painting Machine." Link listed on *robotics.nasa.gov's Robot News* 18 Aug. 2011.

Cooley, Steve. "Benjamin Grosser's Robotic Painting Machine." *Steve Cooley Fine Art* 18 Aug. 2011.

Pikal, Silvia. "Interactive robotic painting machine to make artists obsolete too." *Mobile Magazine* 18 Aug. 2011.

"Benjamin Grosser's Interactive Robotic Painting Machine." *NOTCOT.org* 18 Aug. 2011.

Peschel, Steffen. "Ein paar Fragen zum Kunstverständnis." *Kultur2Punkt0.com* [Germany] 18 Aug. 2011.

"Интерактивный робот-художник." *codered.ru* [Russia] 18 Aug. 2011.

Green, Bobby. "Robot som konstnär: Styr av omgivningens ljud." *Feber.se* [Sweden] 18 Aug. 2011.

Kee, Edwin. "Interactive Robotic Painting Machine." *übergizmo.com* 18 Aug. 2011.

Grant, Drew. "Today's must-see viral videos." *Salon.com* 17 Aug. 2011.

Kelly. "My Robot Could Paint That." *Videogum.com* 17 Aug. 2011.

Volpe, J. "Interactive Robotic Painting Machine begs the Question: Art for art's sake, or for its master's?" *Engadget* 17 Aug. 2011.

Frauenfelder, Mark. "Ben Grosser's interactive robotic painting machine." *BoingBoing.net* 17 Aug. 2011.

Merli, Melissa. "Figure One show looks at knowledge acquisition and subverting Google." *News-Gazette* 9 Aug. 2011.

Merli, Melissa. "Mixing music, art and tech." *News-Gazette* [Champaign-Urbana, IL] 24 Apr. 2011: G1.

Hildwine, Jeriah. "Bringing Themselves to the Big City." *Chicago Now: Art Talk Chicago* 11 Apr. 2011.

Burke, Stephanie. "Top 8 Weekend Picks." *Bad at Sports: Contemporary Art Talk* [Chicago] 1 Apr. 2011.

Merli, Melissa. "Studio Visit: Ben Grosser." *News-Gazette* [Champaign-Urbana, IL] 15 Nov. 2009: C1.

Cook, Anne. "Protesters Bare All in Name of Peace." *News-Gazette*. 27 Jan., 2003: B1.

Fuchs, Allison. "Big, Loud Art That Mincens No Expression." *Daily Illini* [Champaign-Urbana, IL]. 1 Mar. 2001: B8.

Schuler, Nico. "Breakpoint Screamer." *Computer Music Journal*. Winter 2000, Vol. 24:4.

Honaker, Karen. "Web Review/2000." *Art Calendar* Jun. 2000: 12.

"Review: Contemporary Chamber Players." Rev. of *Epistatic Niche*. *Riverfront Times* [St. Louis, MO]. 5 Oct. 1994 #835.

## AWARDS, HONORS, FELLOWSHIPS

Terminal Award, 2012-2013.

Creative Divergents Award, Winter 2011.

Illinois Creative and Performing Arts Fellowship, 2012.

Rhizome ArtBase Selection, for 'Interactive Robotic Painting Machine', 2011.

Finalist (Top 12), Efroymsen Contemporary Arts Fellowship, 2011.

List of Teachers Ranked Excellent By Their Students, University of Illinois, 2011.

Illinois Creative and Performing Arts Fellowship, 2011.

Nominee, New Insight Exhibition, Art Chicago, 2011.

Helen E. Platt Blake MFA Materials Grant, 2011.

Semifinalist Honor, National Science Foundation Visualization Challenge, 2007.

NASA Software Award, 2007.

3<sup>rd</sup> Place, Scientific Film Festival. Materials Research Society. 2007.

Finalist, Scientific Film Festival. Materials Research Society. 2007.

Jury Selection, Computer Animation Festival, SIGGRAPH. 2004.

Jury Selection, Computer Animation Festival, SIGGRAPH. 1997.

Arnold O. Beckman Research Award, UI Campus Research Board, 1994.

## ART & TECHNOLOGY GRANTS

"Situated Protocols in Gesture-Based Machine-(Human)-Machine Interaction." *Illinois Creative and Performing Arts Fellowship*, \$1,000. 2011.

"A Collaborative Robotic Painting Machine that Enables Multidisciplinary Performance and Art Making for People with Disabilities." *UIUC Research Board*, \$18,105. 2010-2011.

"Towards Genetics-Based Machine Learning for Timbral Search and the Completion of Five Music Commissions using GACSS." *UIUC Research Board*, \$5,000. 1995.

"A Proposal to Complete Phase Two of the Development of Computer Music Software Which Utilizes Genetic Algorithms as its Fundamental Control Structure." *UIUC Research Board*, \$5,000. 1994.

"A Proposal for Hardware Needed to Drive Current Research Involving Computer Music Software Which Utilizes Genetic Algorithms as its Fundamental Control." *UIUC Research Board*, \$7,700. 1993.

"A Proposal for the Core Development of Computer-Assisted Compositional Software Which Utilizes Sound Synthesis Procedures Controlled by Genetic Algorithms." *UIUC Research Board*, \$5,000. 1993.

## SCIENCE GRANTS

Primary Author, "MRI: Acquisition of a Multi-Length Scale Ultra High-Resolution X-Ray Nanotomography Instrument," *National Science Foundation (NSF)*, \$1,998,500. 2007-2008. [Largest NSF instrumentation award ever made to UIUC.]

PI, "Redevelopment of the Bugscope Project," *Submeta Foundation*, \$25,000. 2007-2008.

Co-PI, "An Alternative Approach to Bone Replacement," Critical Research Initiative Grant, *UIUC*, \$97,000. 2005.

Primary Author and Co-PI, "Virtual Light and Scanning Probe Microscopy Instruments for the Virtual Laboratory Project," *NASA Kennedy Space Center*, \$250,000. 2004.

Primary Author and Co-PI, "VSEM Sample Production for the Virtual SEM Project," *NASA Kennedy Space Center*, \$37,000. 2004.

Primary Author and Co-PI, "Acquisition of an X-Ray Microtomography Instrument for Materials Research and Education", *National Science Foundation*, \$220,000. 2004.

PI, "A Rapid Prototyping Machine for Multi-Disciplinary Research," *UIUC Research Board*, \$25,000. 2003.

Primary Author and Co-PI, "A Virtual SEM." *NASA Kennedy Space Center*, \$75,000. 2003.

Primary Author and Co-PI, "A Research Grade ESEM Application." *NASA Hierarchical Learning Network*, \$200,000. 2002-03.

## PUBLISHED MUSIC

Grosser, B. "Not Pitch." on Taylor, R. *Interstice*. shh #0135, 2012. CD and Digital Distribution (iTunes/Amazon/CD Baby).

Browning, Z. *Banjaxed*, Capstone Records CPS-8697, 2001. Audio CD. [authored sound synthesis software used for 7 works]

Grosser, B. "If But Or." *waveFORMation*. Electronic Music Studios CD EMS 9700, 1997. Audio CD.

## PUBLISHED ANIMATIONS

Grosser, B. et. al. "Mandible Reconstruction Project." Animation. *Siggraph Video Review* #149, NY:ACM, 2004. [producer, director]

Grosser, B. et. al. "Enhanced Processor Lifetime Through Deuterium Processing." Animation. *Siggraph Video Review* #124, NY:ACM, 1997. [animation, modeling, editing, music]

## PUBLISHED PHOTOGRAPHS AND ARTWORK REPRODUCTIONS (PRINT PUBLICATIONS)

Grosser, B. *News-Gazette* [Champaign-Urbana, IL] 24 Apr 2011: G2. [photograph]

Grosser, B. *Cannot Exist* #1. (2008): Madison, WI. cover. [painting reproduction on front and back cover]

Grosser, B. *Communication Activism, Volume 1*, Cresskill, NJ: Hampton, 2007. 195-246. [photographs]

Grosser, B. *Saemann* #119 [Bern, Switzerland] Apr. 2003: 3. [photograph]

Grosser, B. *The Veteran* #34 [Chicago, IL] Spring 2004: 3. Spring 2004. [photograph]

Grosser, B. and Kosal, Margaret. "CU Women Bare Witness for Peace." *Public I* [Urbana, IL] Feb. 2003: 2. [photograph]

## BOOK CHAPTERS

Grosser, B., and McDonagh, D. "Relevant Design: Enhancing Quality of Life through the Fusion of Art, Science, and Technology." *IMPACT: The Synergy of Design, Business, and Technology*. Ed. McDonagh, D. Champaign, IL: Printec, 2006. 50-53.

## REFEREED JOURNAL PUBLICATIONS

Fried, G., Grosser, B., & Mah, C. "Virtual Microscopy: A Tool for Sample Documentation and Dissemination." *Scanning*, 28:2, pp. 100-101. 2006.

Joseph Cesarano III, Jennifer G. Dellinger, Michael P. Saavedra, David D. Gill, Russell D. Jamison, Benjamin A. Grosser, Janet M. Sinn-Hanlon and Michael S. Goldwasser. "Customization of Load-Bearing Hydroxyapatite Lattice Scaffolds." *International Journal of Applied Ceramic Technology* [1546-542X] III 2.3 (2005): 212.

Kisseberth, N., G. Brauer, B. Grosser, C.S. Potter and B. Carragher. "JavaScope: A Web-Based TEM Control Interface." *Journal of Structural Biology*, 125:23 (1999): 229-234.

## CONFERENCE PROCEEDINGS

Fried, G., Grosser, B., Conway, C., & Manzoor, K. "High-Resolution, Multi-Dimensional Virtual Microscopy: A 21st Century Took for K-16 Education." *Microscopy and Microanalysis*, 12 (S02): 214-215. 2006.

Fried, G., Grosser, B., Gaskins, T., and Klementiev, A. "Virtual Microscopy Using High-Resolution Datasets." *Microscopy and Microanalysis*, 11 (S02): 648-649, Cambridge University Press. Aug. 2005.

Appleman, D., Fried, G., Grosser, B., Weber, D., Conway, C., Robinson, S. "Constructing a Research Grade Interactive Remote Microscopy Application---Goals, Challenges, and Results." *Microscopy and Microanalysis*, 9: 1256-1257, Cambridge University Press. 2003.

Fried, G., Robinson, S., Appleman, D., Grosser, B., Weber, D., Conway, C. "Research Grade Remote-Access Scanning Electron Microscopy: The Evolution of the Bugscope Project." *Microscopy and Microanalysis*, 9: 1258-1259, Cambridge University Press. 2003.

Thakkar, U., Fried, G., Grosser, B., Robinson, S., Weber, D., Korb, M., & Lee, J. "Integrating remote scientific instrumentation in the curriculum to support inquiry: Case studies in K-12 and teacher education." *Proceedings of the Society for Information Technology and Teacher Education* (pp. 2144-2145). Norfolk, VA: Association for the Advancement of Computing in Education. 2002.

Potter, C., Carragher, B., Carroll, C., Grosser, B., Hanlon, J., Kisseberth, N., Robinson, S., Thakar, U., & Weber, D. "Bugscope: A practical approach to providing remote microscopy for science education outreach." *Microscopy and Microanalysis*, 7(3), 249-252. 2001.

Potter, C. S., Carragher, B., Carroll, L., Conway, C., Grosser, B., Hanlon, J., Kisseberth, N., Robinson, S., Stone, D., Thakkar, U., & Weber, D. "Bugscope: A sustainable remote microscopy project for K-12." *Proceedings of the Fourth International Conference of the Learning Sciences*, pp. 379-380. Mahwah, NJ: Lawrence Erlbaum. 2000.

Grosser, B. and Kisseberth, N. "irma: An Interactive Remote Microscopy Application for WWW-Based Control of an Environmental Scanning Electron Microscope (ESEM)." *Proceedings: Workshop on Automated Control of Distributed Instrumentation (ACDI '99)*. Urbana, IL: University of Illinois. 1999

Potter, C., Carragher, B., Stone, D., Thakkar, U., Grosser, B., Hanlon, J., Hoyer, C., Kisseberth, N., Robinson, S., & Weber, D. "Bugscope: A sustainable web-based telemicroscopy project for K-12 classrooms." *Microscopy and Microanalysis*, 5, 514-515. 1999.

## UNPUBLISHED MANUSCRIPTS

Grosser, B. "How the Technological Design of Facebook Homogenizes Identity and Limits Personal Representation." Retrieved from: <http://bengrosser.com/blog/how-the-technological-design-of-facebook-homogenizes-identity-and-limits-personal-representation/>. 2011.

Grosser, B. "The Ideology of Defense and Paul Shambroom's Photographs of the Bomb." Retrieved from: <http://bengrosser.com/projects/ideology-of-defense/>. 2004.

## JOURNAL AND BOOK COVERS

Grosser, B. *Nature*, 446.22. (2007): cover. DOI: 10.1038/nature05681.  
Grosser, B. *J. of Materials Chemistry*, 17.9. (2007): cover. DOI: 10.1039/b701856h.  
Grosser, B. and Rotkin, S.V. *Handbook of Nanoscience, Engineering and Technology*. 2nd ed. Boca Raton: CRC, 2007. cover.  
Grosser, B., Xu, M., and Lewis, J., *Soft Matter* 2.170. (2006): cover. DOI: 10.1039/b601845a.  
Conway, C., Grosser, B. *Nature Materials*, 5.1. (2006): cover. DOI:10.1038/nmat1532.  
Grosser, B., Rotkin, S.V. *Applied Physics of Carbon Nanotubes*. S.V. Rotkin, Ed. Springer-Verlag, July 2005.  
Grosser, B. *Chemical Communications*, 1.5. (2004): cover.  
Grosser, B., Gratson, G., and Lewis, J. *Materials Today*, 7.7-8. (2004): cover.  
Grosser, B., Rotkin, S.V. and Hess, K. *Applied Physics Letters*, 84.16. (2004): cover.  
Grosser, B. and Rotkin, S.V. *Handbook of Nanoscience, Engineering and Technology*. 1st ed. Boca Raton: CRC, 2002. cover.  
Grosser, B. *Journal of Polymer Science, Part A: Polymer Chemistry*, 40.8. (2002): cover.

## CONFERENCE PRESENTATIONS

Grosser, B. and McDonagh, D. "The Fusion of Design and Technology to Improve Quality of Life through Universal Design." *Second International Conference for Universal Design*. International Association for Universal Design. International Conference Hall, Kyoto, Japan. 24 Oct 2006.

Thakkar, U. and Grosser, B. "Bugscope: An Application of Remote Scientific Instrumentation in Education." National Science Foundation. *Educating With Virtual Experience Workshop*. National University of Ireland, Maynooth, Ireland. Nov. 2003.

Grosser, B. "Bugscope Project Overview and Demonstration." *Image and Meaning Conference Exhibition*. Massachusetts Institute of Technology, Boston, MA. May 2001.

Grosser, B. and Kisseberth, N. "An Interactive Remote Microscopy Application." *Workshop on Automated Control of Instrumentation*. Beckman Institute, University of Illinois at Urbana-Champaign, Urbana, IL. Mar. 1999.

## AUTHORED POSTER PRESENTATIONS

Grosser, B., Jamison, R., Hart, J., Stroila, M., Goldwasser, M., Wagoner Johnson, A., Ashani, S., Jerez, A., 2006. "Automated Production of Artificial Bone Implants." *BIO 2006*. McCormick Place, Chicago, IL. 11 Apr 2006.

Jamison, R., Goldwasser, M., Cesarano, J., Grosser, B. "Rational Design of Load-Bearing Bone Scaffolds: A Case Study." *Gordon Research Conference on Biomaterials: Biocompatibility/Tissue Engineering*. Plymouth, NH. Jul. 2003.

## INVITED PRESENTATIONS

"Artist's Talk," *School of Information: Science, Technology, and Arts*, University of Arizona, Fall 2012. (forthcoming)  
"What Does Software Want? Recent Artistic Projects and Research," Beckman Institute, UIUC, 2/14/2012.  
"Artist's Talk," *New Media Seminar*, School of Art + Design, UIUC, 2/8/11.  
"Three-Dimensional Modeling Techniques for Artificial Bone Implant Design", *MATSE 370*, UIUC, 2003.  
"An Interdisciplinary Approach to Reconstruction of the Human Mandible: A Case Study", *Bioengineering Seminar*, UIUC, 2003.  
"Bugscope—Current and Future Directions", *California Science Center*, CA, 2003.  
"Bugscope—Current and Future Directions", *San Diego Zoo*, CA, 2003.  
"Bugscope—Current and Future Directions", *Natural History Museum*, Los Angeles, CA, 2003.  
"Bugscope: An Online Educational Outreach Project", *Discovery Science Center*, CA, 2003.  
"Remote Microscopy Technology Development", *Emerging Technologies LIS 250EMT*, UIUC, 2001, 2002.  
"An Interactive Remote Microscopy Application for WWW-Based Control of an ESEM," *ITG Forum*, May 6, 1999.  
"Fundamentals of Digital Imaging," *UIUC Non-Credit Course on Imaging Technology*, 1998.  
"Constructing and Rendering 3D Surfaces from Topographical and Intensity Data," *ITG Forum*, 1998.  
"What is the Visualization, Media, and Imaging Laboratory?," *ITG Forum*, March 3, 1998.  
"Genetic Algorithms in Composition and Sound Synthesis," New York University, 1994.  
"Genetic Algorithms in Composition and Sound Synthesis," Manhattan School of Music, 1994.  
"Genetic Algorithms in Composition and Sound Synthesis," Columbia University, 1994.

## PRESENTATIONS

- "High-Resolution Multi-Dimensional Virtual Microscopy," *Imaging Technology Group Forum*, Beckman Institute, UIUC, 12/5/06.  
"Photoshop Techniques: Selections," *Imaging Technology Group (ITG) Forum*, Beckman Institute, UIUC, 4/27/2004.  
"Color Management Essentials: Matching Colors between Monitors and Printers," *ITG Forum* 4/6/2004.  
"High-Resolution Digital Photography with the Canon 1Ds", *ITG Forum*, 2003.  
"Custom Data Visualization Tools for Maya," *ITG Forum*, 2002.  
"Introduction to DVD-Video and its Applications," *ITG Forum*, 2000.

## SELECTED RESEARCH PRESS

- "Mixing music, art and tech." *News-Gazette* [Champaign-Urbana, IL] 24 Apr. 2011: G1.  
"CD gives students feel for powerful scope." *News-Gazette* [Champaign-Urbana, IL] 12 July 2004: A2.  
"Microscope via Internet makes bugs a big deal." *Houston Chronicle* 31 Mar. 2004.  
"Visiting the creepy-crawly world with the help of the Bugscope program." *Irish Times* [Dublin] 24 Mar. 2004.  
"Bugscope a Hit Overseas." *News Gazette* 13 Feb. 2004.  
"New Mandible Implant Avoids Need for Hip Surgery." *Medical Tribune*, 36:43-44. Tokyo, Japan, 23 Oct 2003.  
"Carle, UI Test Computer-Generating New Bone." *News Gazette* 15 Jun. 2003: A1.  
"UI Project Simply Buggy, On Purpose." *News Gazette* 26 Jan. 2003.  
"Bugscope." *All Things Considered*. *National Public Radio (NPR)* 7 Dec. 1999.  
"Real World Science from Internet Labs." *New York Times* 17 Jun. 1999: G9.

## SELECTED MUSIC COMPOSITION PERFORMANCES

- Not Pitch*. Brooklyn, NY. 29 Jun. 2012. (forthcoming)  
*Not Pitch*. University of Nevada, Las Vegas, NV. 21 Apr. 2012. (forthcoming)  
*Shift*. Virginia Museum of Contemporary Art, Virginia Beach, VA. 19 Jan. 2011.  
*Not Pitch*. Atkinson Hall, New Mexico State University, Las Cruces, NM. 15 Jan. 2011.  
*Not Pitch*. College of the Holy Cross, Boston, MA. 23 Mar. 2010.  
*Not Pitch*. North American Saxophone Alliance, University of Georgia, Athens, GA. 3 Mar. 2010.  
*Uninduced Approximation*. House Theater, Urbana, IL, 10-12 Dec. 2009.  
*Not Pitch*. Holsclaw Hall, University of Arizona, Tuscon, AZ. 29 Oct. 2009.  
*Not Pitch*. Katzin Hall, Arizona State University, Tempe, AZ. 27 Oct. 2009.  
*dimit. modbit* (#1), WEFT 90.1FM [radio], Champaign, IL. Apr. 2007.  
*Epistatic Niche*. *Faculty Composition Concert*, Krannert Center for the Performing Arts, Urbana, IL. 2003.  
*lotted ebb*. *Computer Music Festival*, Michigan State University, East Lansing, MI. 2002.  
*lotted ebb*. *Three Two New Music Festival*, New York City, NY. 1999.  
*mix whit*. *Three Two New Music Festival*, New York City, NY. 1998.  
*Inappropriate Relationship*. *Three Two New Music Festival*, New York City, NY. 1998.  
*Sound Booze*. *Three Two New Music Festival*, Wesleyan University, CT. 1997.  
*If But Or*. *Three Two New Music Festival*, Wesleyan University, CT. 1996.  
*Schemata Decept*. *Gesundheit Institute*, Hillsboro, WV. 1995.

## SERVICE

- Juror, Creative Divergents Award, Summer 2012 (forthcoming).  
Reviewer, National Science Foundation, 2003.  
Reviewer, University of Illinois Campus Research Board, 2000, 2001, 2002, 2004, 2006, 2007.  
Member, Board of Directors, ThreeTwo, Inc. (non-profit arts organization), New York, NY, 1999-present.  
Urbana Plan Commission, 2005-2011.  
Urbana Public Arts Task Force, 2007-08. Wrote portions of public arts policy for the city. Adopted in 2008.  
Reviewer, Conference on Advances in Internet Technologies and Applications, 2004.  
Technology Officer, Arts Graduate Student Organization, University of Illinois, 2010-present.  
Art & Technology Organizing Committee, Beckman Institute, University of Illinois, 2002-03.  
Chancellor's Retreat on Cross-Campus Initiatives, University of Illinois, 2002.  
Chair, Computer Music Project Advisory Committee, School of Music, UIUC, 1995.

## **COURSES TAUGHT**

### ***Interaction II [instructor of record, course designer]***

In-depth exploration of interaction in the context of cultural production, with an emphasis on the implementation of software-based interactive art works. Introductory and intermediate instruction in computational design using *Processing*, with projects in generative drawing, camera-based interaction, and live data mapping. <http://arts444.courses.bengrosser.com>.

### ***Interaction I [instructor of record]***

Introduction to the conceptualization and construction of interactive experience for art and design. Interaction is examined as technical, structural, social, and historical. Includes technical instruction in HTML/CSS, PHP, XML/XSLT, RSS, and Wordpress as a CMS. <http://arts344.courses.bengrosser.com>.

### ***Industrial Design II [co-taught]***

Studio design problems focused on the topic of relevant design, with an emphasis on research-based collaborative studio practice and the design of solutions for health-based real world problems.

### ***Music Theory I [teaching assistant, led discussion section]***

Fundamentals of music theory, including terminology and notation, visual analysis of music elements, procedures, and forms, written applications in short projects.

### ***Music Theory IV [teaching assistant]***

Exploration of 20th century theory, forms, and compositional methods, including late romanticism, serialism, minimalism, chance, algorithmic, and computer-assisted techniques, with an emphasis on listening and writing.

### ***Aural Skills I [teaching assistant]***

Beginning aural skills training in the areas of intervals, scales, chords, rhythm, melody, and harmony.

### ***Fundamentals of Digital Imaging (co-taught, short course)***

Brief introduction to the basics of digital imaging, including digital image structure, file formats, compression, processing, and analysis.