CHRISTOPHER BAKER

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Education:

2008 **University of Minnesota**, Minneapolis, Minnesota, USA
Masters of Fine Art in Experimental and Media Art
Graduate Minor in Computer Science

2004 **University of Minnesota**, Minneapolis, Minnesota, USA
Masters of Science in Biomedical Engineering
NSF-IGERT Computational Neuroscience Fellow
Thesis Project: "Distributed Real-Time Analysis of Neural Data"

2001 **Saint Louis University**, Saint Louis, Missouri, USA
Bachelors of Science in Biomedical Engineering,
Summa Cum Laude
Thesis Project: "Video Simulation of Elderly Visual Deficits"

Exhibitions and Performances:

2010 **Solo Exhibition, Visual Studies Workshop**, Rochester, NY *(upcoming)*
Group Exhibition, Plains Art Museum, Fargo, ND *(upcoming)*

2009 **Emerging Artists Solo Exhibition, Franklin Artworks**, Minneapolis, MN *(upcoming)*
Artists on the Verge, Weisman Art Museum, Minneapolis, MN *(upcoming)*
Reading By Light, Gallery@, Barnsley, UK *(upcoming)*
POKE!, FotoFest, Houston, TX *(upcoming)*
FEEDFORWARD: Angel of History, LABoral Centro de Arte y Creación Industrial, Gijón, Spain *(upcoming)*
Wishes for the Sky, 2009, Harriet Island, Saint Paul, MN
Pixelache Festival, Helsinki, Finland
Experimental and Media Art Retrospective Katherine E. Nash Gallery, Minneapolis, MN
Spark Festival of Electronic Music and Art, University of Minnesota, Minneapolis, MN

2008 **Pay Attention: GM08**, **Soap Factory,** Minneapolis, MN, *catalogue*
Party Party in a Tweety Land b/w This Republic of Suffering, Form+Content Gallery, Minneapolis MN
Unconvention, Peavy Plaza, Minneapolis, MN
Why You Belong, Regis Center for Art, Minneapolis, MN
[ ] SCAPES, Katherine E. Nash Gallery, Minneapolis, MN
W(e are) here: Mapping the Human Experience, Intermedia Arts, Minneapolis, MN
Why You Belong, Burnet Gallery, Minneapolis, MN
DATS Symposium, University of North Carolina Greensboro, Greensboro, NC
KIBU/ Projects\ Social, Kitchen Budapest, Budapest, Hungary
Solutions Volume 3, Intermedia Arts, Minneapolis, MN
Wishes for the Sky, 2008, Harriet Island, Saint Paul, MN

2007 **Fresh Works Exhibition, Regis Center, Minneapolis, MN, USA**
International Computer Music Festival, Huset i Magstræde, Copenhagen, Denmark
Sound in Art/Art in Sound, Minnesota Museum of American Artists, Saint Paul, MN
Spark Festival of Electronic Music and Art, University of Minnesota, Minneapolis, MN
House of the Future, **Millenáris Park**, Budapest, Hungary
Big Ten Conference Art Exhibition, **Big Ten Headquarters,** Park Ridge, IL
Scholarship Exhibition, Dept. of Art, University of Minnesota, Minneapolis, MN
Student Exhibition, College of Design, University of Minnesota, Saint Paul, MN
Duet No. 3, **Quincy Street Gallery**, Minneapolis, MN

Wishes for the Sky, 2007, Harriet Island, Saint Paul, MN
Spark Festival of Electronic Music and Art, University of Minnesota, Minneapolis, MN

2006 **Artsmosis Festival, Regis Center,** Minneapolis, MN, USA
Fresh Works Exhibition, Regis Center, Minneapolis, MN, USA
Fallout Art Festival, Fallout Urban Art Center, Minneapolis, MN, USA
Spark Festival of Electronic Music and Art, Southern Theater, Minneapolis, MN, USA
Kinetic Kitchen Dance Series, Old Arizona Theater, Minneapolis, MN, USA

2005 **Artsmosis Festival, University of Minnesota,** Minneapolis, MN, USA
Visible Fringe Festival, Intermedia Arts & Acadia Cafe, Minneapolis, MN, USA
Fresh Works Exhibition, Regis Center, Minneapolis, MN, USA
Spark Festival of Electronic Music and Art, The Whole, Minneapolis, MN, USA
Best Feet Forward Festival, The Southern Theater, Minneapolis, MN, USA

2004 **Spark Festival of Electronic Music and Art, Regis Center,** Minneapolis, MN, USA

Festivals and Conference Participation:

2009 *Climatehack Workshop Facilitator,* **Transmediale Festival for Art and Digital Culture,** Berlin, Germany
Exhibition Juror, **Spark Festival of Electronic Music and Arts, Minneapolis, MN, USA**
2008 *Speaker / Panelist,* **KIBU/ Projects\ Social, Kitchen Budapest, Budapest, Hungary**
Assistant Director, **Spark Festival of Electronic Music and Arts, Minneapolis, MN, USA**
Speaker / Panelist, **Digital, Art and Technology Symposium, University of North Carolina Greensboro, NC**
Presenter, **Emerging Digerati Week 2008, Institute for New Media Studies, University of Minnesota**
2007 *Presenter*, **AIGA National Design Conference, Denver CO, USA**
Attendee, **Conflux Festival, Brooklyn, NY USA**
Attendee, **SIGGRAPH 2007, San Diego, CA USA**
Presenter, **International Computer Music Conference, Copenhagen, Denmark**
Director of Art Installations, **Spark Festival of Electronic Music and Art, Minneapolis, MN, USA**
2006 *Interactive Installation Jury*, **Spark Festival of Electronic Music and Art, Minneapolis, MN, USA**
Assistant Rapporteur, **ISEA/ZeroOne Festival, San Jose, CA, USA**
2005 *Interactive Installation Jury*, **Spark Festival of Electronic Music and Art, Minneapolis, MN, USA**

Artist Talks

2009 Mikro Beavatkozások, Moszkva Tér, Urban Design Workshop BME University, Budapest, Hungary
2008 Pecha Kucha, *Hungarian Contemporary Architecture Centre*, Budapest, Hungary
Moholy-Nagy University of Art and Design, Budapest, Hungary
Soap Factory, Minneapolis, MN
W(e are) here, Intermedia Arts, Minneapolis, MN
2007 (*Un)tied*, Qunicy Street Gallery, Minneapolis, MN
Data Visualization Arts, Art Institutes International, Minneapolis, MN
Emerging Digerati, Institute for New Media Studies, Weisman Art Museum
Dorkbot, Minneapolis, MN
My Map, Spark Festival of Electronic Music, University of Minnesota
2005 *Emerging Digerati*, Institute for New Media Studies, Weisman Art Museum

Selected Press:

2008 Sutherland Lyall, "Writing on the Wall" Architectural Review, 2/08
2007 Tim Franzen, "Lynn Lukkas' Biosensor Projects engage the viewer differently" Insight News, 6/18/07
Jon Nelson, "Sound in Art Art in Sound," Some Assembly Required, 5/4/07
Chris Roberts, "Art makes noise at St. Paul Museum," Minnesota Public Radio, 4/23/07
Ann Wickstrom, "Spark Festival," Metro Magazine, 2/2007
2006 Katie Mae Kohlbeck, "Fusion at Artsmosis", Wake Magazine, 10/4/06
Michael Garberich, "Collaborative Exploration", Minnesota Daily, 10/5/06
Morning Show, "Spark Festival", Fox 9 News, 2/2006

2005 Kate Hoff, "Secrets," Full Frontal Fringe, 7/2005
Anne Pratt, "Living on the Fringe," Downtown Journal, 8/5/2005

Selected Publications:

2008 *American Toys*, in book **Data Flow: *Visualising Information in Graphic Design***, Die Gestalten Verlag
2007 *American Toys* in **I.D. Magazine, November, 2007**
Separate image durations activate distinct neuronal populations in the human medial temporal lobe
Computational and Systems Neuroscience 2007, Salt Lake City, UT, USA
2006 *Temporal dependence of single-unit responses in human subjects during object categorization*
Society for Neuroscience 2006, Atlanta, GA, USA
2002 *Spectral Reliability of VHS Archived EEG Data in Patients with Epilepsy*
Epilepsia 43 Suppl. 7 :44 (Abst. 1.118) , 2002, AES Seattle, 2002

Grants/Fellowships:

2009 Artists Initiative Grant: Minnesota State Arts Board
2008 Artist on the Verge Fellowship: Northern Lights/Jerome Foundation/Forecast Public Art
Office of International Programs: Interdisciplinary International Institutional Partnership Grants
2007 Alexander Dubcek Research/Travel Grant – Budapest, Hungary
Faculty Graduate Arts Fellowship
CLA GRPP Independent Research Fellowship
College of Design e-Scholarship Grant
Institute for Advanced Study – Research Fellowship
Artist's Grant – Arts Quarter Collective
2006 Artist's Grant – Arts Quarter Collective
2005 Artist's Grant – Arts Quarter Collective
Marjorie A. Finch Graduate Arts Fellowship
2002 NSF-IGERT Computational Neuroscience Fellowship

Awards:

2007 My Map - *Best in Show,* College of Design Student Exhibition, University of Minnesota
My Map – Big Ten Art Exhibition Winner, Park Ridge, Illinois

Work / Teaching / Research:

Current
Kitchen Budapest New Media Lab, Budapest, Hungary
Senior Researcher, Artist-in-residence
University of Minnesota, Dept. of Art, Minneapolis, Minnesota, USA
Researcher, Developer for Minneapolis Art On Wheels

Summer 2008
Freelance art/design, Minneapolis, Minnesota, USA

Spring 2008
University of Minnesota, School of Music, Minneapolis, Minnesota, USA
Research Assistant – Tangible Music Interaction, PI: Doug Geers

Fall 2007
University of Minnesota, Dept. of Art, Minneapolis, Minnesota, USA
Instructor – ARTS1601 Intro to New Media
Teaching Assistant – ARTS5303 Experimental Video with Ali Momeni

Fall/Spring 2007/08
University of Minnesota, School of Music, Minneapolis, Minnesota, USA
Research Assistant – Tangible Music Interaction, PI: Doug Geers

Summer/Fall 2007
University of Minnesota, Design Institute, Minneapolis, Minnesota, USA
Research Fellow – e-Sustainability, Multi-touch, PI: Janet Abrams

Fall/Spring 2006/07
University of Minnesota, School of Music, Minneapolis, Minnesota, USA
Research Assistant – Electronic Music, PI: Doug Geers
Research Assistant – Time Symposium

Summer 2006 **University of Minnesota, Dept. of Art**, Minneapolis, Minnesota, USA
Instructor – ARTS3601 New Media, Time and Interactivity

Spring 2006 **University of Minnesota, Dept. of Art**, Minneapolis, Minnesota, USA
Teaching Assistant – Experimental Video, with Prof. Diane Willow
Research Assistant – Time and Interactivity, PI: Prof. Lynn Lukkas
Teaching Assistant – Experimental Art, with Prof. Diane Willow (May Term)

Fall 2005 **University of Minnesota, Dept. of Art**, Minneapolis, Minnesota, USA
Teaching Assistant –Digital Processes with Prof. Lynn Lukkas
Teaching Assistant –Experimental Media with Prof. Lynn Lukkas

Summer 2005 **University of Minnesota, Dept. of Art**, Minneapolis, Minnesota, USA
Max/MSP/Jitter Summer Workshop
Facilitated Max/MSP/Jitter workshop for art faculty and students.

Jan 2005-May 2005 **University of Minnesota, School of Music**, Minneapolis, Minnesota, USA
Research Assistant – Electronic Music, PI: Doug Geers
Assisted in design of wireless laptop improvisational orchestra.
Research Assistant – Time and Interactivity, PI: Prof. Lynn Lukkas
Incorporated bio-sensors into interactive environments and theatrical performances

Sept. 2002 – Dec. 2004 **University of Minnesota, Dept. of Biomedical Engineering**, Minneapolis, Minnesota, USA
Research Assistant – Brain Modeling Laboratory, PI: Prof. Peter N. Steinmetz, M.D., Ph.D.
Designed, implemented and deployed a real-time distributed neural data analysis toolkit
Carried out depth recordings on epilepsy patients at UCLA School of Medicine
Designed experimental paradigms and custom data analysis software

Summer 2004 **Century College, Upward Bound Math and Science**, White Bear Lake, Minnesota, USA
Instructor: "Introduction to Biotechnology"
Designed and taught course using Medtronic's *Pacemaker Project* materials

Summer 2002 **Dresden-Friedrichstadt Hospital**, Dresden, Saxony, Germany
Research Intern – Institute for Clinical Chemistry, PI: Prof. Thomas Demant, M.D., Ph.D.
Routine serum analysis, machine calibration; assisted with scientific document translation

Jan. 2002 – May 2002 **Saint Louis University School of Medicine, Dept. of Neurology**, Saint Louis, Missouri, USA
Research Assistant – Midwest Epilepsy Treatment Center, PI: Prof. R. Edward Hogan, M.D.
Worked to correlate specific postictal behaviors with corresponding EEGs
Developed MATLAB software GUI to analyze EEGs

May 1999 – Sept. 2001 **Zassi Medical Evolutions**, Saint Louis, Missouri, USA
Associate Product Development Engineer (Summer 2001 - Fall 2001)
Designed a colostomy measurement device, oversaw third party manufacturing
Engineering Intern (Summer 1999 - Spring 2001)
Conducted original clinical research at Washington University School of Medicine

Sept. 1997 – Sept. 1998 **Whiteside Biomechanics**, Saint Louis, Missouri, USA
Engineering Intern
Participated in orthopedic instrument/prosthesis design, inspection and testing

Media Skills:

Platforms: OS X, Linux, Windows
Programming Languages:
openFrameworks, C , C++, Java, Processing, Max/MSP/Jitter, MATLAB, mySQL, PHP, Ruby/Rails, Bash
Foreign Languages:
German proficiency certificate from the University of Minnesota
Programs: MATLAB, R, Pro/Engineer and SolidWorks CAD suites, Sketchup, MS Office Suite, Adobe Publishing Products, Final Cut Pro, Adobe After Effects

Hardware: Gumstix, Ardunio, Make Controller, Teleo, Cricket, Basic Stamp, DSP, Sensors, AVR/Atmel

Selected Honors, Service:

Honors: Eagle Scout; Alpha Chi, Golden Key and NHS National Honor Societies
Service: Humanitarian work in Haiti, Romania and Mexico