NICHOLAS KNOUF
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EDUCATION:

Massachusetts Institute of Technology, 2004-2005
Courses: *Tangible Interfaces, Ambient Intelligence*

California Institute of Technology, 1998-2002
Bachelor of Science in Engineering and Applied Science

PUBLICATIONS

Baker, C., Peli, E., Knouf, N., and Kanwisher, N. (2005) Reorganization of Visual Processing in Macular Degeneration. *The Journal of Neuroscience*. **25** (3) 614-18

Grill-Spector, K, Knouf, N. & Kanwisher, N. (2004) The fusiform face area subserves face perception, not generic within-category identification. *Nature Neuroscience*. **7** (5) 555-562

ARTISTIC EXPERIENCE

Sigtronics, Media Lab, Cambridge, MA   **May 2005**
- In-progress project in which myself and Christine Liu will produce a wearable computing fashion show to take place in the Media Lab Atrium on May 20th, 2005.
- Awarded a MIT Council of the Arts Grant.

Collision Six :: SENSES :: Art Interactive, Cambridge, MA   **October 2004**
- Created a project entitled *44#444*, an interactive installation that engaged participants in a re-examination of modern methods of communication, specifically text messaging, by forcing them to view their own text messages as the sequence of key-presses needed to input the message on their phone. The installation created a disconnect between the modern technology of text messaging and the participant's experience by using obsolete dumb terminals and receipt printers as the interface. More information is available at http://www.mimeme.net/portfolio/electronic_art/44pound444.html. Awarded a MIT Council of the Arts Director's Grant.

Modern Art Tags   **In progress**
- Project that aims to erase the line between art galleries and the real world by placing gallery-style placards on common objects in our everyday world, such as elevators and ATM machines. More information is available at http://www.mimeme.net/portfolio/electronic_art/modern_art_tags.html.

RESEARCH EXPERIENCE

Lab Manager, Laboratory of Nancy Kanwisher, MIT   **2002-present**
- Manager and technical assistant for a neuroimaging laboratory of five post-docs, two graduate students, and around eight undergraduate research assistants

- Operated magnetic resonance imaging (MRI) scanners in human neuroimaging experiments
- Wrote an analysis software package called *froi* that is used extensively for Region-of-Interest analysis in both the Kanwisher Lab and labs at Massachusetts General Hospital Imaging Center
- Co-author of two papers: one on the response properties of the fusiform face area (FFA) and the second on reorganization of visual cortex in macular degeneration patients
- Responsible for the integrity, backup, and archiving of over three terabytes of data using RAID storage arrays and high-end tape-backup systems
- Responsible for the maintenance of over fifteen computers in the lab network, a mixture of Windows, Macintosh, Linux, and Sun systems
- In charge of for budgeting and purchasing of laboratory office and information technology resources

LEADERSHIP AND EVENT EXPERIENCE

Director of Academic Affairs   2001-2002
Associated Students of the California Institute of Technology, Inc.
- Member of the board of directors of a non-profit corporation that forms the undergraduate student government
- Chair of the eleven member Academics and Research Committee, which represents undergraduates in academic matters
- Worked with faculty and administration to address academic concerns
- Fostered communication through mailings to over 200 incoming freshmen students
- Planned and produced a campus-wide Student/Faculty Conference involving nearly 900 undergraduates, 1100 graduate students, over 200 faculty members, and numerous staff members
- Involved in publishing on-line student reviews of classes and professors
- Identified exemplary faculty and teaching assistants for the 25th annual ASCIT Teaching Awards
- Created an on-line database for access to undergraduate student advisors

SKILLS:

Programming Languages: Python, Perl, C, Java, PHP, HTML, JavaScript, LaTeX
Operating Systems: Mac OS X, Windows NT/2000/XP, FreeBSD, Linux (Debian, Red Hat and Gentoo distributions), Solaris
Programs: MATLAB, Macromedia Dreamweaver, Fireworks, and Flash, Adobe Photoshop and Illustrator, MySQL, Microsoft Office, Microsoft Access, Mathematica, Maple
Foreign Languages: Working knowledge of written and spoken German

ACTIVITIES, HONORS, AND PORTFOLIO:

WMBR 88.1FM Radio (*sigtronica*, http://sigtronica.org), Collision Collective, Violin and Viola performance (chamber music and orchestra), Caltech Axline Merit Scholarship, Caltech Summer Undergraduate Research Fellowships. Portfolio available at http://www.mimeme.net/portfolio/.