

Joseph 'Jofish' Kaye  
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**Objective**

**To use observation of people in their everyday lives  
to help build, understand, and evaluate new technologies for everyday use.**

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**Approach**

I combine user-centered iterative hardware and software design, careful ethnographic observation, and theoretical understandings drawn from human-computer interaction and science & technology studies.

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**Education**

**Cornell University:** August 2003-Present Ithaca, NY  
**Ph.D, Information Science.** Expected graduation August 2008.  
Dissertation Title: Experience-focused HCI: Evaluation & Epistemology  
Committee: Phoebe Sengers, Jeff Hancock, Michael Lynch and Kristina Höök  
Research projects include the *Evaluation of Experience-focused HCI, Intimate Objects, Home Health, and Culturally Embedded Computing.*

**Massachusetts Institute of Technology:** August 1995-June 2001 Cambridge, MA  
**M.S. Media Arts & Sciences,** June 2001. MIT Media Lab. McDonalds Fellow.  
Thesis: Symbolic Olfactory Display  
Committee: Michael Hawley, Hiroshi Ishii, Marc Canter, Peter Brown  
Research: Olfactory information display; digital home and kitchen technologies.  
Resident Researcher, Media Lab Europe, Dublin, Fall 2000

**B.S. Brain and Cognitive Sciences.** January 1999. Advisor: Steve Pinker  
**Primary and secondary school education:** London, Paris, Singapore & Tokyo.

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**Professional Experience**

**Visiting Researcher,** Microsoft Research Cambridge, UK. July-December 2006  
*Computer Mediated Living Group.* Studied the evaluation of experience-focused HCI.  
Methods included field studies, interviews, diary studies, and data visualization. Collaborated on projects including the *Whereabouts Clock*, an ambient tool for increasing awareness within a family, the *Ambient Ink Display*, resulting in a study of Tablet PC use, Pottering, a study of non-task-focused domestic experience, and the *Eggexperiment*, an evaluation of the experience of haptic output.

**Intern,** Intel Corporation, Portland, OR. Summer 2005  
*Domestic Design & Technology Research.* Worked closely with Genevieve Bell to compile list and taxonomy of worldwide research efforts in smart/digital homes. Developed extensive annotated bibliography of domestic technology, and studied ethnic breakdown of technology use in the USA.

**Research Assistant,** Cornell University, Ithaca, NY. September 2004-July 2008  
*Culturally Embedded Computing Group.* Managed undergraduate researchers, wrote and co-wrote papers, did ethnographies, evaluated technologies, wrote software in Python and C, built analog and digital electronics and did extensive archival and library research. **Also see Teaching section below.**

**VP of Interface,** Ambient Devices, Cambridge MA October 2002-March 2003  
Design, SW/HW wireless development, researched patents and FCC regulations.

**Founder/VP Hardware,** Innovation Catalyst, Cambridge, MA. March 2002-October 2002  
Planned startup strategy and business plan. Prototyped HW for location-aware cellphone interface for Motorola.

**Research Manager/Assistant**, MIT Media Laboratory,  
Cambridge, MA

September 1999-October  
2001

*Counter Intelligence*. Managed team of 3 undergraduates. Studied smart kitchen technologies. Started lead-user driven project exploring food consumption in cars with sponsor companies.  
*Personal Information Architecture*. Researched future of kitchen & home. Collaborated to build working prototypes, supervised and mentored teams of 2-4 undergraduates, wrote papers. Co-founded Counter Intelligence group and planned long-term research plan, co-designed research lab/kitchen. Demos to sponsors and press.

**Management Consultant**, GEA Consulting, Cambridge MA /  
Fabriano, Italy

January 1999-September  
1999

Researched technologies for domestic appliances; strategy advice to Italian retail startup.

**Full-length  
Refereed  
Conference  
Publications**

Taylor, A., Wyche, S., **Kaye, J. 'J.'** (2008) Pottering By Design. *Proc. NordiCHI'08*, to appear.

Brown, B. A. T., Taylor, A. S., Izadi, S., Sellen, A., **Kaye, J. 'J.'**, Eardley, E.: **Locating Family Values: A Field Trial of the Whereabouts Clock**. (Best Paper Nominee). *Proc. Ubicomp 2007*: 354-371.

Gaver, W., P. Sengers, T. Kerridge, **J.'J.' Kaye**, and J. Bowers (2007). **Enhancing Ubiquitous Computing with User Interpretation: Field Testing the Home Health Horoscope**. Full Paper, *Proc. CHI 2007*: 537-546.

**Kaye, J. 'J.'**, Vertesi, J., Avery, S., Dafoe, A., David, S., Onaga, L., Rosero, I., and Pinch, T. **To Have and to Hold: Exploring the Personal Archive**. Full Paper, *Proc. CHI 2006*.

Sengers, P., Boehner, K., David, S., **Kaye, J. 'J.'** **Reflective Design**. Proceedings of the 4th Critical Computing conference, Aarhus, Denmark, 22-24 August 2005.

**Refereed  
Journal  
Publications**

**Kaye, J. 'J.'** and Sengers, P. **The Evolution of Evaluation**. Under review for *HCI*.

Bell, G., **Kaye, J. 'J.'** **Designing Technologies for Domestic Spaces: A Future Kitchen Manifesto**, *Gastronomica* 2(2) May 2002 p46-62.

Witzgall, B., **Kaye, J. 'J.'** **Context As Output**, *MIT Student J. of Planning* 2, Spring 2001.

**Short  
Refereed  
Conference  
Publications**

Brown, L. and **Kaye, J. 'J.'** **Eggs-ploring the influence of material properties on haptic experience**. Poster, *Ext. Abs. HAID'07*.

Gaw, S., **Kaye, J. 'J.'** and Wood, K. **Screensaver for Note-Review**. Poster, *ESCSW'07*

**Kaye, J. 'J.'** **Evaluating Experience-focused HCI**. Doctoral Consortium, *Ext. Abs. CHI 2007*

**Kaye, J. 'J.'**, Boehner, K., Laaksohalmi, J., and Stahl, A. **Evaluating Experience-focused HCI**. SIG, *Ext. Abs. CHI 2007*

Wyche, S.P., Taylor, A., and **Kaye, J. 'J.'** **Pottering: A design-oriented investigation**. Experience Report, *Proc. CHI 2007*

Leshed, G., and **Kaye, J. 'J.'** **Understanding how bloggers feel: recognizing affect in blog posts**. Work-in-Progress *Ext. Abs. CHI 2006*

**Kaye, J. 'J.'** **I Just Clicked To Say I Love You: Rich Evaluations of Minimal Communication**. alt.chi 2006.

Brewer, J., **Kaye, J. 'J.'**, Williams, A., and Wyche, S. **Sexual Interactions: Why we should talk about sex in HCI**. Workshop Proposal, *Ext. Abs. CHI 2006*.

**Kaye, J. 'J.'**, Levitt, M., Nevins, J., Golden, J., and Schmidt, V. **Communicating Intimacy One Bit at a Time**. Late-breaking Result, *Ext. Abs. CHI'05* 1529 - 1532.

Kaye, J. 'J.', and Goulding, L. **Intimate Objects**. Interactive Poster, *Proc. DIS 2004* 341-344.

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**Non-refereed  
Journals &  
Magazine  
Articles**

Kaye, J. 'J'. **Horoscopes: Valuing the Irrational.** *Ambidextrous Magazine* 2(1) Spring 2007

Kaye, J. 'J'. **Making Scents: Aromatic Output for HCI.** Cover article, *interactions* 11(1) Jan+Feb 2004 48-61.

Sengers, P., Kaye, J. 'J.', Boehner, K., Fairbank, J., Gay, G., Medynskiy, Y. and Wyche S. **Culturally Embedded Computing.** *Pervasive Computing*, 3(1) 2004.

Kaye, J. 'J'. **Computer Controlled Scent Output.** *Perfumer and Flavorist*, Nov/Dec 2003

Kaye, J., Matsakis, N. **Mr. Java.** *IEEE Computer Graphics & Applications* May 2000

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**Book  
Chapters**

Kaye, J. 'J'. **LEGOs.** In *Falling for Science: Objects in Mind*, S. Turkle, Ed. MIT Press, 2008.

Harper, R., Rodden, T., Rogers, Y., & Sellen, A. (2008). *Being Human: Human Computer Interaction in 2020*. Microsoft Research Cambridge. **Contributor.**

Brown, B., Taylor, A.S., Izadi, S., Sellen, S. and Kaye, J. 'J'. **Supporting Family Awareness with the Whereabouts Clock.** In *Awareness Systems*, P. Markopolous, Ed. Springer Verlag, forthcoming.

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**Workshop  
Papers**

Kaye, J. 'J'. The practice of value-centered evaluation in design research. **CHI 2008 Workshop on Values, Value and Worth.** Florence, Italy, April 2008.

Kaye, J. 'J.' and Taylor, A. **What Does Science Know about Experience? Alternatives Approaches to Evaluating User Experience.** *NordiCHI 2006 Workshop: User Experience - Towards a unified view.* Oslo, Norway, October 2006.

Rode, J. and Kaye, J. 'J'. **Is to Nurture in Technology's Nature?** *UbiComp 2006 Workshop: Nurturing Technologies in the Domestic Environment: Feeling Comforted, Cared for, and Connected at Home.* Long Beach, CA, September 2006.

Kaye, J. 'J'. **Beyond Usability: Designing for Evaluating Experience** *DIS 2006 Workshop: Exploring the Interrelationships between the Design and Evaluation of Interactive Systems.* State College, PA, June 2006.

K. Boehner, S. David, J. 'J.' Kaye, and P. Sengers. **Critical Technical Practice as a Methodology for Values in Design.** *CHI 2005 Workshop on Quality, Values, Choices,* Portland, OR, March 2005.

Kaye, J. 'J'. **Intimate Objects: A site for affective evaluation.** *CHI 2005 Workshop: Innovative Approaches to Evaluating Affective Interfaces.* Portland, OR, March 2005.

P. Sengers, K. Boehner, G. Gay, J. 'J.' Kaye, M. Mateas, B. Gaver, and K. Höök. **Experience as Interpretation.** *CHI 2004 Workshop on Cross-Dressing and Boundary Crossing: Exploring Experience Methods Across the Disciplines.* Vienna, Austria, April 2004.

Kaye, J. 'J'. **Social Considerations in Ambient Healthcare Awareness,** *CHI 2003 Workshop: Designing Culturally Situated Technologies for the Home.*

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**Teaching**

I teach with an emphasis on rapid prototyping, user-centered approaches, iterative design processes, group work and reflective design. I encourage group projects for real-world clients, who have included local organic farmers and community outreach projects. I care deeply about my teaching, and consistently receive high teaching evaluations from both students and faculty.

**INFO/COMM.345 Intro to Human Computer Interaction.** Head TA. *Spring 2008*

**INFO/CS.130 Intro to Web Design & Programming.** Head TA. *Fall 2007*

**INFO/CS.230 Intro Design & Programming for the Web.** Joint Head TA. *Spring 2007*

**STS.356 Computing Culture.** Joint Head TA. *Spring 2006*

INFO/CS.130 Intro to Web Design & Programming. Head Teaching TA. *Fall 2005*  
Everything You Always Wanted To Know About Smell But Were Afraid To *January 2001*  
Ask, IAP Seminar,

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Invited  
Talks

**Evolving Evaluation from Engineers to Experience.** Stanford University Human-Computer Interaction Seminar, Stanford, CA. 22 April 2007.

**Expanding the Scope: Pushing the Boundaries of HCI.** CHI Mumbai, Mumbai, India. 19 March 2007.

**Expanding the Scope: Pushing the Boundaries of HCI.** Bangalore, India. 22 March 2007.

**Towards Experience-focused HCI.** Invited Talk, BostonCHI, MIT, Cambridge, MA, 16 March 2007.

**The Evolution of Evaluation.** Microsoft Research Cambridge, UK. 15 December 2006

**The Evolution of Evaluation: Learning from History as a Step Towards the Evaluation of Third Wave HCI.** University of Aarhus, Denmark. 29 November 2006

**Steps Towards a History of Ethnomethodology in HCI and CSCW.** Science & Technology Studies Unit, University of York, UK. 20 November 2006.

**Evolution of Evaluation in HCI.** York HCI Group Seminar, Department of Psychology, University of York, UK. 19 November 2006.

**Evolving Evaluation from Engineers to Experience: What History can Teach us About Evaluation in HCI.** GIST Seminar Series, University of Glasgow, UK. 16 November 2006.

**Evaluation in HCI Looking at the evolution of an interdisciplinary field.** Oxford e-Science Research Project, University of Oxford, UK. 15 November 2006.

**How We Got To Where We Are Today: Understanding the History of Evaluation in HCI.** Guest Seminar, IT Universitetet, Göteborg, Sweden, 6 October 2006.

**Evaluation in Experience-Focused HCI: Exploring the Virtual Intimate Object.** Future Applications Lab, Viktoria Institute, Göteborg, Sweden, 13 January 2006.

**Intimate Objects.** Invited Talk, Human Communication Technologies Laboratory, University of British Columbia, Vancouver, Canada. 6 January 2005

**Olfactory Display.** Invited Survey, UIST 2004, Santa Fe, NM. 26 October 2004.

**Future Kitchen Technologies** Campbell Soup Company, Camden, NJ, 1 October 2003

**Symbolic Olfactory Display,** Designing for the Senses, Smithsonian/Cooper-Hewitt & Rockefeller University, New York, NY, 3 May 2003

**My Grandmother Could Cook A Pasta Dinner In Seven Minutes Or Less With No Wasted Steps,** Smart Home Series, Intel Architecture Labs, Portland OR, 22 September 2001

**Computerized Symbolic Olfactory Display,** Xerox Parc, Stanford CA, 1 August 2001.

**Future Technologies & Practices Impacting The Home,** Information & The Urban Future, New York University, New York NY, 26 February 2001.

**Kitchen Directions,** Schott Glas, Mainz, Germany, 23 August 2000.

**Forget About Technology** Bluetooth: Future of Wireless, ICM, Washington DC, 14 July 2000.

**Technology for All,** Access to Information Technology, Reykjavik, Iceland, 22 February 2000.

**Technology in Future Kitchens,** Design & Technology, Hafele, San Francisco CA, 23 September 1999.

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**Conference &  
Research  
Presentations**

**Three Hours to Doing Information Science with Python: A Lightning Introduction.**

Cornell Webclub, Cornell University, Ithaca, NY. 11 February 2007.

**Finding the Self in Affective Computing.** Society for the Social Studies of Science, Vancouver BC, Canada. 4 November 2006.

**Evaluating Experience-Based HCI: the Virtual Intimate Object.** Science Studies Research Group, Science & Technology Studies Department, Cornell University, Ithaca, NY. 13 March 2006.

**The Logbook Probe: Facilitating auto-thick description for evaluation.** Workshop on Innovative Approaches for Evaluating Affective Systems, Swedish Institute for Computer Science, Kista, Sweden. 9 January 2006

**The Spiritual As Metric: Maximizing Karma for Touring Relics.** Ethnographic Praxis in Industry Conference Microsoft Conference Center, Redmond, WA. 14 November 2005.

**Exploring Technologies of Intimacy: Minimal Intimate Objects.** Society for the Social Studies of Science, Pasadena, CA. 20 October 2005.

**I Just Clicked To Say I Love You: Rich Evaluations of Minimal Communication.** Paper Presentation, Less Is More Conference, Microsoft, Cambridge, UK. 27 April 2005.

**Intimate Objects: Working at the Crossroads of Information Science.** Information Science Seminar, Cornell University, Ithaca, NY. 13 April 2005.

**Intimate Objects: A Site for Affective Evaluation. Novel Approaches to Evaluating Affective Interfaces.** CHI 2005 Workshop, Portland, OR. 4 April 2005.

**Intimate Objects: Open for Interpretation.** Open Systems, Open STS: The MIT-RPI-Cornell STS Graduate Student Conference. Cornell University. 19 February 2005.

**Technology & Relationships: Intimate Objects in S&TS & I/S.** Social Sciences Reading Group, Cornell University, Ithaca, NY. 18 October 2004.

**Archives & Identity.** Social Sciences Reading Group, Cornell University, Ithaca, NY. 4 October 2004.

**William H. Broughton: One Radio Ham.** Society for the Social Study of Science (4S), Paris, France. 27 August 2004.

**Intimate Objects: Communication Devices for Couples.** Information Science Seminar, Cornell University, Ithaca, NY. 14 April 2004.

**Writing a Machine: Technical Critical Practice.** Under Construction VI - The MIT-RPI-Cornell STS Graduate Student Conference: A Heart-Shaped Black Box. Rensselaer Polytechnic Institute, Troy NY, 14 February 2004.

**Computerized Symbolic Olfactory Display,** Cornell SIGCHI Distinguished Lecturer Series, Cornell University, Ithaca NY, 8 October 2003

**Professional  
Service**

**Co-Chair** (with L. Barkhaus): alt.chi 2008.

**Program Committees:** NordiCHI 2008, DIS 2008, Multimedia Visualization 2004, 2005.

**Workshop Co-Chair:** J. Brewer, **J.'J'. Kaye**, A. Williams and S. Wyche. **Sexual Interactions: Why we should talk about sex in HCI.** CHI 2006 Workshop.

**Workshop Co-Chair:** **J. 'J'. Kaye** and G. Bell: **Holy Hanging Out: Exploring Spirituality and Religion in the Corporate Environment.** EPIC 2005 Workshop.

**Conference Reviewing:** CHI, DIS, CSCW 2004-2008, Ubicomp 2006-2008, DUX 2005, IEEE VR 2006, Pervasive 2006 Multimedia Visualization (M2Vis) 2004, 2005.

**Editorial Review Board:** International Journal of Technology and Human Interaction

**Journal Reviewing:** International Journal of Human-Computer Studies, International Journal of Technology and Human Interaction, IEEE Intelligent Systems, Social Psychology Quarterly  
**Cornell SIGCHI:** Chair, 2004-2007. Created and organized extremely popular 'Distinguished Lecturer Series', later 'Invited Lecture Series', bringing over 20 junior faculty and advanced graduate students to speak at Cornell.

**Volunteering:** Talks for Trumansberg Middle School Computer Club, multiple presentations to visiting high school students, Angiers Elementary, Newton MA (Annual visits 1998-2003).

**Membership:** Association for Computing Machinery (ACM), Special Interest Group in Human-Computer Interaction (SIGCHI), Society for the Social Studies of Science (4S)

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**Grants and Honors**      **Teaching Assistant Award**, Department of Computer Science, Cornell University.      *May 2006*  
**Research Grant:** Center for the Study of Long Distance Relationships.      *2006*  
**McDonalds Fellowship.** Masters Degree sponsorship, MIT Media Lab.      *2000-2001*

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**Selected Academic & Research Advising**      **Eugene Medynskiy** *Currently Ph.D Student, Georgia Tech*      *May 2006*  
**Liz Goulding** *Currently Analyst, Deloitte*      *Fall 2003-Spring 2004*  
**Daniel Bedard** *Currently Senior Research Device Engineer, Renaissance Computing Institute*      *Spring 2001*  
**Junius Ho** *Currently Product Manager, Telephony Applications, Palm, Inc.*      *Fall 2000-Summer 2001*  
**Tilke Judd** *Currently Ph.D Student, CSAIL, MIT*      *September 1999-Fall 2000*

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**Selected Media Coverage**      *Love Tech Goes Long Distance.* Andy Greenberg, Forbes.com      February 6, 2008  
*Computer to User - You Figure It Out.* Gary H. Anthes, Compuworld.      January 23, 2006  
*Kitchens of the Future.* The Food Network      January 18, 2004  
*The Infinite Mind: Sense of Smell.* National Public Radio      April 30, 2003  
*Will the Kitchen Please Shut Up!* Richard Wolkomir, Smithsonian      September 1999  
*In an M.I.T. Lab, the Future Cooks.* William Hamilton, New York Times      February 18, 1999

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**Project Portfolio**      **Intimate Objects:** Systems for long-distance couples to communicate intimacy  
**Ventus: The Intelligent Inhaler** a embedded single-chip medical device with IR transmission  
**Home Health Horoscopes:** Intel-sponsored ubiquitous computing project to measure the emotional climate of a home and produce horoscopes to encourage rich user interpretation.  
**Portable Personal User Interface:** Prototype situation/location aware cellphone  
**Symbolic Olfactory Display:** M.S. Thesis: information display using computer-controlled scent: complex abstract information display through aroma.  
**Counter Intelligence:** explored technologies in the kitchen and home. Projects include:  
- **Mr. Java:** coffee machine incorporating RFID to recognize users to automatically deliver their beverage and entertainment choices.  
- **Robocrop:** A kitchen counter-sized automated hydroponic garden  
- **PC Dinners: computerized microwave oven controlled by foods' UPC barcodes**  
- **Food in Cars:** A lead-user-driven exploration of a problem space  
- **Self-Cleaning Table:** A kitchen counter that clears itself using asymmetrical sound waves  
- **Energy Fridge:** Embedded technology produce energy savings  
Collaboration: **Wearable Fashion Computing** (front cover, US News & World Report)

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**Skills &**      **Languages:** Rusty conversational French and even rustier intermediate Japanese.

**Activities**

**Research skills:** Extensive experience in interviewing, ethnography and ethnographically-inspired research, open-ended surveys, cultural and technological probes, log and activity visualization, applied machine learning, internet community research and qualitative / quantitative research design and correlation.

**Technical skills:** Programming in Python, C, embedded C, prototyping analog & digital electronics. Experience with various embedded computers, Linux system administration, etc.

**Theater:** Extensive performances and directing of improv, actor-created & scripted theatre.

**MIT Mystery Hunt 2003 - The Matrix:** Joint creator of world's largest treasure hunt.

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**Personal**

I am an enthusiastic supporter of local food, wine, and beers, and enjoy mobile photography, cooking, dancing, and hosting friends and family. I recently accidentally adopted a Maine Coon kitten called Annie.

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