

## Joseph F. McCarthy

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### Overview

I am deeply passionate about exploring and inventing new ways for technology to help users connect with the people, places and things that can surprise and delight them. I believe the most promising frontiers for such connections lie along the seams of distinct spaces – between physical and virtual spaces, as well as across different online social media streams - where the creation of new portals can open up hybrid spaces in which inhabitants can enjoy the best of all worlds. As an irrepressible instigator, connector and evangelist, I enjoy collaborating with others with diverse backgrounds and perspectives on shared goals involving the development of technology to empower us to lead richer, more rewarding lives.

### Education

**Ph.D., Computer Science**, *University of Massachusetts*

Thesis: A Trainable Approach to Co-reference Resolution for Information Extraction

**M.S., Computer Science**, *Rensselaer Polytechnic Institute*

Concentration on Software Engineering

**B.A., Philosophy**, *Ripon College*

### Professional Experience

#### **Strands Labs (Seattle WA)**

*Principal Instigator (Lab Director)*, 2/2008-10/2009

Established new innovation lab in Seattle for Corvallis, OR-based Strands, Inc., hired a team of 7, found and furnished an office, and instigated a new application, **CoCollage**, that uses a plasma display to show a dynamic collage of photos and quotes uploaded to a special web site by patrons and staff in a coffeehouse, and signed up 24 coffeehouses and other community-oriented venues around Seattle as partners.

#### **Nokia Research Center (Palo Alto, CA)**

*Principal Scientist*, 2006-2008

Contributed to Nokia's strategy and vision for the future mobile Internet experience, enhanced Nokia Research Center's visibility in the research community, attracted top talent to a new lab with ambitious growth plans, and led the development of the **C3 Collage**, an applications that demonstrates the benefits of a holistic ("outside the phone") socio-technical approach to context, content and community.

#### **Interrelativity, Inc. (Woodinville, WA)**

*Connector-in-Chief*, 2004-2006; *Chief Technology Officer*, 2005-2006

Founded company, assembled a team, directed the technology design, development, sales and marketing of a new generation of *proactive display* software that enhances personal and professional networking opportunities by showing content from people's online profiles on plasma displays deployed at conferences, meetings and other networking events.

### **Intel Research (Seattle, WA)**

*Senior Researcher, 2002-2004*

Defined and managed research projects to demonstrate potential user benefits in a future filled with ubiquitous computing technologies; highlights include the **Proactive Displays** project, which consisted of a suite of three applications (AUTOSPEAKERID, TICKET2TALK, NEIGHBORHOOD WINDOW) running on large, public displays augmented with radio frequency identification (RFID) readers, designed to sense and respond in contextually appropriate ways to people nearby, enhancing the awareness and interaction opportunities among conference attendees.

### **Accenture Technology Labs (Chicago, IL)**

*Senior Manager, 2000-2002; Manager, 1996-2000*

Created visions of how technologies will affect the way we work and live, designed prototypes to illustrate those visions, demonstrated those prototypes and discussed their implications with a variety of internal and external business audiences. Project highlights include:

- **Ubiquitous Peripheral Displays**, (UNICAST, OUTCAST, GROUPCAST), illustrating scenarios wherein displays permeate a broad range of settings throughout the physical workplace
- **Visual Location Awareness Tools** (ACTIVEMAP, EVENTMANAGER), providing location awareness and support for informal communication within and across teams
- **MusicFX**, a system linking a personnel badge reader, a satellite receiver and a preference database to dynamically adjust the music to best suit the group of exercisers at any given time.

### **University of Massachusetts (Amherst, MA)**

*Graduate Research Assistant, 1990-1996*

Developed new approaches for using machine learning and other statistical techniques in a variety of natural language processing system components of *information extraction* applications – programs that find useful information in texts written by humans, and encode that information in machine-readable form.

### **Independent Consultant (Amherst, MA)**

1989-1993

Co-designed, implemented and maintained a suite of statistical process control applications for thread inspection systems manufactured by the client, The Johnson Gage Company.

### **University of Hartford (Hartford, CT)**

*Assistant Professor of Computer Science, 1985-1989*

Taught undergraduate courses on computer programming, operating systems and artificial intelligence (AI), developed AI concentration and overhauled introductory programming curriculum, advised students and conducted research.

## **Publications and Presentations**

Authored or co-authored over 40 technical papers

Delivered over 50 presentations, including 5 keynotes, to a variety of audiences

## **Professional Service**

*Program Co-Chair, 10<sup>th</sup> Int'l Conf. on Ubiquitous Computing (UbiComp 2008)*

*Conf. Chair, 5<sup>th</sup> Int'l Conf. on Ubiquitous Computing (UbiComp 2003)*

*Conf. Co-Chair, ACM Conf. on Computer-Supported Cooperative Work (CSCW 2002)*

*Associate Chair, Reviewer for numerous conferences, journals and other publications*

*References, sample publications, full CV and other information available upon request*