

Research Interests

My research addresses the designing of information to support traditional and new interactions as we live, work, and play. The structure of the information and the process of information design reveal a reality of the medium: be it cultural or technical; interactions and information are presented in a manner that meets the facility of the physical, social, or technical space.

Education

- 2001–2005 **Northwestern University**
Doctor of Philosophy, Department of Computer Science.
Advisor/Committee Chair: Kristian Hammond
Committee: Don Norman, Larry Birnbaum, Shannon Bradshaw
Completed Qualifier June 2002. Admitted to candidacy June 2003.
- 1996–1999 **The University of West Florida**
Masters of Computer Science, Department of Computer Science.
- 1991–1996 **The University of West Florida**
Bachelor of Computer Science, Department of Computer Science.

Work Experience

- 8/05–present *Visiting Researcher*. **Intelligent Information Laboratory**,
Department of Electrical Engineering and Computer Science.
Northwestern University.
- 12/99–8/01 *Visiting Researcher*. **Center for Mars Exploration**,
NASA Ames Research Center, Moffett Field, CA.
Strategic partnership in conjunction with IHMC/UWF.
- 7/96–12/99 *Adjunct Faculty*. **Visual Arts Department**,
Pensacola Junior College.

Teaching Experience

- Northwestern University **Adjunct Professor**. (2005)
News and News Media, Medill School of Journalism. (revised department syllabus)
- Northwestern University **Teaching Assistant**. (2002–2004)
Semantics. Practicum in Intelligent Information Systems
Dr. Kristian J. Hammond & Dr. Larry Birnbaum
- Pensacola Junior College **Instructor**. (1996–1999)
Computer Graphics I (revised department syllabus),
Computer Graphics II (revised department syllabus),
Computer Graphics Study (revised department syllabus),
Multimedia Seminar (wrote department syllabus).
- The University of West Florida **Instructor**. (1998–1999)
Computer Graphics Applications.
(wrote department syllabus)
- The University of West Florida **Teaching Assistant**. (1996–1997)
Introduction To Artificial Intelligence.
Dr. Ken Ford (1996) & Dr. Patrick Hayes (1997).
Contest Organizer for Lego Robotics Competition.

Selected Publications (Peer Reviewed)

- David A. Shamma, Bryan Pardo, Kristian Hammond. “MusicStory: a Proactive and Hybrid Approach to Autonomous, Personalized Music Video Creation,” in *Intelligent Music Information Systems: Tools and Methodologies*. Jialie Shen, John Shepherd, Bin Cui, Ling Liu (eds). Hershey, PA: Idea Group Inc. (in press)
- David A. Shamma, Bryan Pardo, Kristian J. Hammond, “MusicStory: a Personalized Music Video Creator.” *In Proceedings of ACM Multimedia Conference*. ACM-Multimedia, ACM Press. Singapore, November 2005.
- David A. Shamma, Sara Owsley, Shannon Bradshaw, Kristian J. Hammond, “Using Web Frequency within Multimedia Exhibits.” *In Proceedings of ACM Multimedia Conference*. ACM-Multimedia, ACM Press. New York, October 2004.

- Geoff Briggs, David A. Shamma, Alberto Cañas, Jeff Scargle, Joseph Novak, “Concept Maps Applied to Mars Exploration Public Outreach,” First International Conference on Concept Mapping, Pamplona, Spain. October 2004.
- Conrad Albrecht-Buehler, Benjamin Watson, David A. Shamma. “Visualizing Live Text Streams Using Motion and Temporal Pooling. In *IEEE Computer Graphics and Applications Special issue on Smart Depiction 2004*, IEEE Press, 2004.
- David A. Shamma, Kristian J. Hammond. “Imagination Environment: Using the web as a source of popular culture.” In *Proceedings of the Emerging Technology track at SIGGRAPH Conference*. Los Angeles, August 2004.
- David A. Shamma, Sara Owsley, Kristian J. Hammond, Shannon Bradshaw, Jay Budzik “Network Arts: Exposing Cultural Reality.” In *Proceedings of WWW Conference*. World Wide Web, ACM Press. New York, May 2004. (*best paper nominated*)

Art Exhibits and Installations

- Imagination Environment** (*in preparation*)
- 9/2006 *Wired NextFest.2006*. New York.
- 6/24/2005–6/26/2005 *Wired NextFest.2005, The Future of Communication*. Navy Pier, Chicago Illinois.
- 8/08/04–8/13/04 *Emerging Technologies. SIGGRAPH*. Los Angeles, California.
- 4/2004–6/2005 *Second City, Chicago*. Piper’s Alley, Chicago Illinois.
David A. Shamma, Kristian Hammond
- MusicStory**
- 11/8/2005–11/11/2005 *ACM Multimedia*. Singapore.
- 6/22/2005 *Wired NextMusic. The Vic Theater*, Chicago Illinois.
David A. Shamma, Bryan Pardo, Kristian Hammond
- Buzz**
- 8/2005–present *Second City, Chicago*. Piper’s Alley, Chicago Illinois.
- 4/22/2005–5/1/2005 *Chicago Improv Festival*. Athenaeum Theater, Chicago Illinois.
Kristian Hammond, Sara Owsley, David A. Shamma
- Association Engine**
- 5/1/2004 *Performing Imagination*, Northwestern University, Evanston, Illinois.
Sara Owsley, Kristian Hammond, David A. Shamma
- Handle with Care: Direct Mail and the American Dream**
- 3/2004–4/2004 *Performing Arts Chicago's PAC/edge: A Convergence of Chicago Artists* at the Athenaeum Theatre, Chicago Illinois.
GirlCharlie, Sara Owsley, Kristian Hammond, David A. Shamma

Media Coverage

- **Chicago Magazine**. “The Silicon Prairie Rides Again.” June 2005.
- **XBytes TV, International Channel**. Art and Technology segment. October 26, 2004.
- **International Herald Tribune**. “Keyword art links images in novel ways,” Matthew Mirapaul. June 19, 2004.
- **New York Times**. “Art unfolds through keyword search,” Matthew Mirapaul. June 17, 2004.
- **Chicago Sun-Times**. “Psychedelic lights yield to Web-driven imagination,” Michael Krauss. April 19, 2004.

References

- Kristian Hammond, Doctoral Advisor, Professor of Computer Science, and Director of The Intelligent Information Laboratory, Northwestern University.
- Don Norman, Principal of the Nielsen Norman Group and Professor of Computer Science at Northwestern University.
- Janice Castro Assistant Dean; Director, Graduate Journalism Programs; Assistant Professor Medill School of Journalism, Northwestern University.
- Geoff Briggs, Director of the Center for Mars Exploration. Ames Research Center. NASA.