

EDUCATION

Master of Human-Computer Interaction
Carnegie Mellon University
August 2003 – August 2004 :: Pittsburgh, PA

Bachelor of Arts in Music
Carleton College
1999 - 2003 :: Northfield, MN

RECENT WORKS

Arbitrary Number Generator
A more human alternative to the many random number generators
2013

Bloop Note Records
Commentary on the Kind of Bloop copyright battle
2011

Dreaming F.I.D.S.
Software for interactive installation in San Jose airport,
led by Ben Hooker and Shona Kitchen
2010

Dead Air, Live
Self-sampling radio, interactive listening device
2009

Visual Scratch
Live visualization of turntablist performance
2006

MaxLink
Tools for interactive and collaborative art
2004

History of Sampling
Interactive visualization of music sampling
2004

JazzVid
Live audio-reactive graphics performance system
2003 – 2004

Live Audio Sampling Instrument
Interactive music performance system
2002 – 2003

WORK EXPERIENCE

Human Interfaces Project Lead
Jet Propulsion Laboratory
December 2012 – present :: Pasadena, CA
Working as a senior member of the Human Interfaces Group and establishing the practice of user centered design at JPL. Leading multiple projects and contributing to design, software engineering, and strategy.

Senior Engineer
Obama for America
October 2011 – November 2012 :: Chicago, IL
Specialized in information visualization, working with a wide range of web technologies in a fast paced environment.

Developer / Designer
Figure 53
July 2009 – September 2011 :: Seattle, WA and Cambridge, MA
Core member of four-person Baltimore-based software company. Designed and developed web service for small-venue theatre ticketing, deeply involved with many aspects of the business.

Software Engineer
IBM Research
May 2005 – March 2010 :: Cambridge, MA
First hire in Martin Wattenberg's Visual Communication Lab prototyping interactive information visualization systems. Lead developer for Many Eyes collaborative visualization platform.

User Interface Design Consultant
eJamming, Inc.
August 2004 – February 2005 :: Boston, MA
Designed and rendered the user interface for a first-generation collaborative music software product under tight deadlines by applying user centered design techniques.

Technology Intern
ZEFER (now Niteo)
1999 – 2000 :: San Francisco, CA
Technology team member for ZEFER, then an 800-person strategic internet consulting firm. Contributed to technical architecture, design and development of worldwide wine auction website.

Lead Developer
Sandhill Arts
1999 :: Palo Alto, CA
Co-designed and implemented quilt auction website. Acquired in March 2000 by PRIMEDIA, a large special-interest magazine publisher.

Web Application Developer
PricewaterhouseCoopers Technology Center
1997 – 1999 :: Menlo Park, CA
Developed internal prototypes using then cutting-edge web technology.

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PATENTS

System and method for annotation

Franciscus J. Van ham, Martin M. Wattenberg, Fernanda B. Viegas, Jesse H. Kriss, Matthew M. McKeon
U.S. Patent application number 11/844,787
Filed August 2007

Doubly Linked Visual Discussions for Data Visualization

Jeffrey Heer, Jesse H. Kriss, Franciscus J. J. van Ham, Fernanda B. Viegas, Martin M. Wattenberg
U.S. Patent application number 11/844,833
File August 2007

Hosted Data Visualization Service

Jesse H. Kriss, Franciscus J. J. van Ham, Fernanda B. Viegas, Martin M. Wattenberg
U.S. Patent application number 11/770,432
Filed June 2007

System and method for visually analyzing geographic data

Martin M. Wattenberg, Jesse H. Kriss, Fernanda B. Viegas
U.S. Patent application number 11/427,907
Filed June 30, 2006

PUBLICATIONS

Your Place or Mine? Visualization as a Community Component

Catalina M. Danis, Fernanda B. Viégas, Martin Wattenberg, Jesse Kriss
CHI 2008

Harry Potter and the Meat-Filled Freezer: A Case Study of Spontaneous Usage of Visualization Tools

Fernanda B. Viégas, Martin Wattenberg, Matt McKeon, Frank van Ham, Jesse Kriss
HICSS 2008

Many Eyes: A Site for Visualization at Internet Scale

Fernanda B. Viégas, Martin Wattenberg, Frank van Ham, Jesse Kriss, Matt McKeon
InfoVis 2007

Talk Before You Type: Coordination in Wikipedia

Fernanda B. Viégas, Martin Wattenberg, Jesse Kriss, Frank van Ham
HICSS-40 2007, Awarded Best Paper

Designing for Social Data Analysis

Martin Wattenberg, Jesse Kriss
IEEE Transactions on Visualization and Computer Graphics 2006

MaxLink: a New Tool for Networked Performance

Jesse Kriss
ICMC 2006