

**Justin Lessler**

335 North 12th Street  
San Jose, California 95112  
justin@postalmodern.com

**Education**

**PhD in Epidemiology**, In Progress  
Johns Hopkins Bloomberg School of Public Health, Maryland.

**Master of Science in Computer Science**, March 2003  
Stanford University, Palo Alto, California.

**Bachelor of Science in Mathematical Sciences (Computer Science)**, December 1996  
University of North Carolina at Chapel Hill, Chapel Hill, North Carolina.

**Associate of Arts**, December 1992  
Simon's Rock of Bard College, Great Barrington, Massachusetts.

**Employment History****IBM Almaden Research Center**

Staff Software Engineer  
San Jose, California  
September 1999-August 2004

At the IBM Almaden Research Center, I perform research into knowledge management and other advanced computer technologies. Highlights of my work at Almaden Research Center include:

- Designed and developed Dynamic Interest Profile and Briefing View technologies for inclusion in Lotus Workplace 2.0, a personal information management product. The Dynamic Interest Profile tracks user interests and Briefing View helps user prepare for meetings.
- Created algorithms, analysis techniques, and display techniques for inclusion in eClassifier, a product for interactive taxonomy generation and document classification.
- Designed and developed part of XML Bridge, a technology that allows disparate databases to communicate.
- Designed and developed Update Connector Manager 2.0, a systems management technology for automatically detecting and deploying software updates to managed systems.

**Tivoli (an IBM Company)**

Software Engineer  
Research Triangle Park, North Carolina  
March 1997-September 1999

- Designed and developed the user interface and parts of the server for the software distribution component of IT Director, a systems management product for small to medium businesses.
- Performed testing and other quality assurance activities for IBM LAN Access.

**National Institute of Environmental Health Sciences (NIEHS)**

Computer Clerk  
Research Triangle Park, North Carolina  
September 1996-December 1996

- Continued the maintenance and expansion of the database used by the NIEHS predictive toxicology project which I started as part of my summer fellowship.

**National Institute of Environmental Health Sciences**

NIEHS Summer Research Fellowship  
Research Triangle Park, North Carolina  
May 1996-August 1996

- Performed research in using Inductive Logic Programming (a machine learning technique) to

predict the carcinogenicity of chemicals based on chemical characteristics, the results of short term mice and rat studies, and other attributes.

- Maintained and expanded the database used by the NIEHS predictive toxicology project.

### **University of North Carolina at Chapel Hill Sociology Department**

Computer Lab Manager

Chapel Hill, North Carolina

January 1995-May 1996

- Set up and maintained a lab of 25 computers for use by members of the UNC sociology department.
- Supported faculty and staff office computers.

### **Publications**

Lessler, J., Edlund, S., Ruvolo, J., Krishna, V., 2004. Dynamic Interest Profiles: Tracking User Interests Using Personal Information. ICIES2004 – 6th International Conference on Enterprise Information Systems.

Spangler, S., Kreulen, J., and Lessler, J., 2003. Generating and Browsing Multiple Taxonomies over a Document Collection. Journal of Management Information Systems, Spring 2003.

Spangler, S., Kreulen, J., Lessler, J., and Johnson, D., 2003. Modeling Document Taxonomies. IBM Research Report RJ10288.

Spangler, S., Kreulen, J., and Lessler, J., 2002. Mindmap: Utilizing Multiple Taxonomies and Visualization to Understand a Document Collection. In the proceedings of Hawaii International Conference on System Sciences 2002.

### **Patents**

#### **Granted:**

- A method and system for knowledge repository exploration and visualization. With Scott Spangler, Jeffrey Kreulen, and Amy Chow

#### **Filed:**

- System and Method for Dynamically Tracking User Interests based on Personal Information, with Joann Ruvolo, Stefan Edlund, Vikas Krishna, Carl Kraenzel
- Text Explanation for On-Line Analytic Processing Events. With Scott Spangler, Jeffrey Kreulen, Vikas Krishna, and William Cody.
- Knowledge “brief” generation through context inference search query construction. With Carl Kraenzel, Paul Moody, Joann Ruvolo, and Tomas Moran.
- Optimization techniques for disconnected operation. With Stefan Edlund, Joann Ruvolo, Vikas Krishna, and Sessa Baratham.
- A method for finding frequently asked questions in helpdesk problem tickets. With Scott Spangler, and Jeffrey Kreulen.

#### **Published:**

- A method for modeling document taxonomies. With Scott Spangler and Jeffrey Kreulen
- Integrated text and data analysis in a warehouse. With Jeffrey Kreulen, Bill Cody, Vikas Krishna, Scott Spangler, and Iris Eiron.

### **Awards**

First Plateau Invention Achievement Award, IBM, April 2004  
For contributions to IBM’s intellectual property

Bravo Award, IBM, June 2003  
For “Making great progress on the DIP and in pulling together the successful demos for the 2Q03

Lotus/Research reviews”

Research Division Award, IBM, December 2002  
For eClassifier Contributions to IGS

First Patent Application Invention Achievement Award, IBM, August 2001  
For patent application: Method and System for Knowledge Repository Exploration and Visualization

Distinguished Contribution Award, IBM, July 1998  
For outstanding contribution during the development of Tivoli IT Director 1.1

### ***Certifications***

Emergency Medical Technician, North Carolina, 1995