

# LORI A. LORIGO

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## EDUCATION

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**PhD in Information Science** 8/2003 – 1/2006  
Cornell University, Faculty of Computing and Information Science, Ithaca, NY  
GPA: 3.94/4.0 - Information Systems/Human-Computer Interaction (HCI)  
Thesis: *Information Management in the Service of Knowledge and Discovery*  
Committee: Dr. Robert Constable (Dean of Information Science); Dr. Geri Gay (HCI); Dr. Thorsten Joachims (Information Retrieval)

**Master of Engineering in Computer Science** January 2001  
Cornell University, College of Engineering, Ithaca, NY  
GPA: 4.06/4.0 (A+ = 4.3)  
Thesis: *Building Proofs in Parallel: A Collaborative Tutorial for the Nuprl Logical Programming Environment*

**Summer School in Proof and System Reliability** August 2001  
NATO Science Committee and Institut für Informatik, Advanced Study Institute, Marktoberdorf, Germany

**B. S. in Operations Research & Industrial Engineering** January 1997  
**B. S. in Computer Science** January 1997  
Cornell University, College of Engineering, Ithaca, NY  
GPA: 3.67/4.0, Double major

## WORK EXPERIENCE

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*Knowledge Manager, Career Development* 4/2006 – Present  
*Tuck School of Business at Dartmouth College, Hanover, NH*  
Responsible for information systems serving career development at Tuck. Database and survey design, statistical analysis of employment trends and career paths, student education around online resources, and library and resource management.

*Visiting Researcher* 5/2006 – Present (part-time)  
*Cornell University, Human Computer Interaction Lab, Ithaca, NY*  
As a member of the HCI lab at Cornell, I conduct research in information seeking and information visualization, help to advise graduate students, and pursue and implement funding opportunities and new research directions.

*Research Assistant* 8/2003 – 8/2005  
*Cornell University, Computing and Information Science, Ithaca, NY*  
In preparation of my PhD dissertation, I worked on information network analysis, digital library applications, and eyetracking and HCI. My research involved exploring large mathematical data sets to make new discoveries, studying users' use of the

web and search applications, and analyzing and extracting behavioral trends over time in scientific communities using quantitative and qualitative methods. Roles also included guest lecturing and grant writing and outreach.

*Group Fitness Instructor* 8/2004 – 5/2005  
*Cornell University, Wellness Program, Ithaca, NY*

*Programmer / Analyst II & III* 1/1997 – 8/2003  
*Cornell University, Department of Computer Science, Ithaca, NY*  
Assisted in the design and implementation of a code verification system and a digital library of mathematics with a focus on user interfaces, data management algorithms, and distributed systems; Wrote research grants and technical documents, trained users, and published and presented work worldwide.

*Undergraduate Research Assistant* 1/1994 – 5/1996  
*Cornell University, Department of Computer Science, Ithaca, NY*  
Designed and implemented algorithms for efficient data queries; Wrote technical documentation and reports; Collaborated with diverse team to develop mathematical problem solving technologies.

*Software Engineer Intern* 8/1994 – 1/1995  
*Hewlett Packard, Medical Products Group, Andover, MA*  
Wrote and presented design and test specifications for the HP CareVue, a clinical information system used to chart and manage patient data; Consulted with physicians and staff to determine system features; Implemented graphical user interface features and user configuration capabilities and conducted quality tests; Wrote work schedules, status reports, and user documentation.

*Computer Consultant for Intro to Computer Programming Course* 8/1993 – 1/1994  
*Cornell University, Department of Computer Science, Ithaca, NY*

*Teaching Assistant* 9/1990 – 6/1992  
*State University of New York at Buffalo, Gifted Math Program, Buffalo, NY*

*Mechanical Engineer Intern* 8/1991 – 1/1992  
*MOOG Inc., East Aurora, NY*

## **PUBLICATIONS**

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Lorigo, L., Haridasan, M., Brynjarsdóttir, H., Xia, L., Granka, L., Pellacini, F., Pan, B., Joachims, T., Gay, G. (accepted with minor revisions) Eye Tracking and Online Search: Lessons Learned and Challenges Ahead, *Journal of the American Society for Information Science and Technology (JASIST)*.

Granka, L, Feusner, M., Lorigo, L. (to appear) Eye Tracking in Online Search, Book Chapter, Springer.

Lorigo, L., Pellacini, F. (2007). Frequency and Structure of Long Distance Collaborations amongst Physicists. *Journal of the American Society for Information Science and Technology (JASIST)* Volume 58, Issue 10, pp. 1497-1502.

- Pan, B., Hembrooke, H., Joachims, T., Lorigo, L., Gay, G., and Granka, L. (2006). In Google we trust: Users' decisions on rank, position and relevancy. *Journal of Computer-Mediated Communication*, special issue on The Social, Political, Economic and Cultural Dimensions of Search Engines.
- Lorigo, L. (2006) *Information Management in the Service of Knowledge and Discovery*, Ph.D. Thesis, Cornell University.
- Allen, S., Constable, R., Lorigo, L. (2006). *Using Formal Reference to Enhance Authority and Integrity in Online Mathematical Texts*. *Journal of Electronic Publishing (JEP)*, vol. 9, no. 2.
- Allen, S. Bickford, M., Constable, R., Eaton, R., Kreitz, C., Lorigo, L. & Moran, E. (2006). Innovations in computational type theory using Nuprl, *Journal of Applied Logic*.
- Lorigo, L., Pan, B., Hembrooke, H., Joachims, T., Granka, L., Gay, G. (2005). *The Influence of Task and Gender on Search and Evaluation Behavior Using Google*. *Information Processing and Management (IPM)*.
- Lorigo, L., Cardie, C., Gay, G., Sengers, P. (2005). *Graduate Study in Information Science at Cornell University*. In ACM CHI 2005 Workshop in Human Factors in Computing Systems (Portland, OR, USA, April 02 - 07, 2005). ACM Press
- Allen, S., Bickford, M., Constable, R., Eaton, R., Lorigo, L., Moran, E. (2005). *Innovations in Computational Type Theory using Nuprl*. To appear in the *Journal of Applied Logic*, 2005.
- Lorigo, L., Kleinberg, J., Eaton, R., Constable, R. (2004). *A Graph-Based Approach towards Discerning Inherent Structures in a Digital Library of Formal Mathematics*. *International Conference on Mathematical Knowledge Management, Lecture Notes in Computer Science*, Springer-Verlag, 2004.
- Hickey, J., Nogin, A., Constable, R., Aydemir, B., Barzilay, E., Bryukhov, Y., Eaton, R., Granicz, A., Kopylov, A., Kreitz, C., Krupski, V., Lorigo, L., Schmitt, S., Witty, C., Yu, X. (2003). *MetaPRL — A Modular Logical Environment*. *Proceedings of the 16th International Conference on Theorem Proving in Higher Order Logics (TPHOLS 2003)*, *Lecture Notes in Computer Science*, Springer-Verlag, 2003.
- Hicks, M., van Renesse, R., Bickford, M., Kreitz, C., Lorigo, L. (2002). *User-Specific Adaptive Scheduling in a Streaming Media Network*. *Cornell University Report*, 2002.
- Allen, S., Bickford, M., Constable, R., Eaton, R., Kreitz, C., Lorigo, L. (2002). *FDL: A Prototype Formal Digital Library Reference Manual*. *Cornell University Online Manuscript*, 2002.
- Schmitt, S., Lorigo, L., Kreitz, C., Nogin, A. (2001). *Jprover: Integrating a Connection-based Theorem Prover into Interactive Proof Assistants*. *International Joint Conference on Automated Reasoning (IJCAR 2001)*, *Lecture Notes in Artificial Intelligence*, Springer-Verlag, 2001.

Allen, S., Constable, R., Eaton, R., Kreitz, C., Lorigo, L. (2000). *The Nuprl Logical Programming Environment*. International Conference on Automated Deduction (CADE 2000), Lecture Notes in Artificial Intelligence, Springer-Verlag, 2000.

## INVITED TALKS – PARTIAL LIST

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*Exploring and Understanding Information based on Context in a Knowledge Network*, Information Science Seminar Series, Cornell University, 2005

*Enhancing Searching of Mathematics*, Cornell University, 2004

*Services of a Formal Digital Library and Proof Sharing*, North American Workshop on Mathematical Knowledge Management (NA MKM 2004) Phoenix, AZ, 2004

*An Interactive Digital Library of Algorithmic Knowledge*, University of California at Berkeley, 2003

*Design of an Interactive Digital Library of Formal Algorithmic Knowledge*, Stanford University, 2002

*A Logical Programming Environment for Building Embedded Systems*, DARPA meeting, Oregon, 2002

*An Open Logical Programming Environment*, DARPA meeting, Colorado, 2000

*Précis of the Nuprl Proof Development System*, INRIA, Nice, France, 1998

## SERVICE

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*Paper Reviewer, SIGGRAPH, SIGCHI* 2006-2007

*Graduate Student Orientation Co-chair* 2/2003 – 2/2004  
Cornell University, Department of Computer Science

*Collaborative Health Network Volunteer* 4/2003 – 8/2003  
Health Medicine Institute, Lafayette, CA

*Chair of Advisory Committee on the Status of Women (ACSW)* 9/1999 – 5/2002  
Cornell University, Ithaca, NY  
Selective committee that advises the president of Cornell on issues affecting women. Managed new member nominations and selections; Planned meeting agendas and ran meetings; Managed publicity and education subcommittees; Reported to the Vice Provost of Faculty and Development

*Co-Director, Educational Outreach Program* 8/1994 – 5/1995  
Society of Women Engineers (SWE), Cornell University Chapter, Ithaca, NY

*American Red Cross Volunteer* 1991-1993

## AWARDS

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Google Research Award (2007), Principal Scientist

Cornell University Cognitive Science PhD Dissertation Fellowship

National Science Foundation (NSF) Travel Grant  
Golden Key & Tau Beta Pi national honor societies  
AT&T academic scholarship  
Hewlett Packard engineering competition winning team  
Gifted Math Program graduate, SUNY at Buffalo

## **SKILLS**

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*Programming Languages:* LISP, Java, Ocaml (Object Oriented ML), XML, HTML, CSS, Matlab, C, C++

*Operating Systems & Software:* Windows, UNIX, Mac, Microsoft Office, SPSS, Adobe Photoshop, Dreamweaver, Dragon Dictate (voice recognition software)

*Eyetracking Technology:* Applied Science Laboratories 5000 series and GazeTracker software

*Certifications:* CPR-AED and First Aid certifications, and Reiki II certified

*Languages:* Familiar with Italian and Spanish languages

## **REFERENCES**

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Available upon request.