

2008 **Intern** **Microsoft Research; Redmond, WA**
 Conducted research into static ranking of web pages based on language models of URLs actually browsed to.

2006 **Intern** **Yahoo! Search; Santa Clara, CA**
 Conducted research on determining intent from query logs. This research was used to diversify search results.

2003 – 2005 **Research Assistant** **Southern Illinois University, Carbondale**
 Advisor: Dr. Norman F. Carver III

Conducted research on multiagent distributed sensor interpretation systems using distributed Bayesian networks and decentralized Markov decision processes. Research focused on problem complexity and domain monotonicity.

2005 – 2006 **Developer** **Th(i)ng Ed; Carbondale, IL
(formerly SchoolCenter)**

Used PHP and SQL in a Linux-Apache (LAMP) environment, to develop a market leading K-12 content management system.

1999 – 2001 **Sr. Software Engineer** **Motorola; Arlington Heights, IL**

Designed and implemented support for EDGE (a.k.a. EGPRS) hardware in the Configuration Management and Network Management System processes. This involved porting the process from proprietary operating system on a 68x000 based architecture to VxWorks on a PowerPC based architecture.

Developed and maintained real-time (RTOS) software for the Man-Machine Interface and the Configuration Management processes for the GSM Base Station Subsystem using C and C++.

EDUCATION

PhD 2006 – 2010 ON LEAVE **Computer Science** **University of California, Santa Cruz**
 Advisor: Dr. Yi Zhang

Research Concentration: Faceted Search, Personalization/Recommendation, Adaptive Interfaces, Machine Learning

MS 2005 **Computer Science** **Southern Illinois University, Carbondale**
 Advisor: Dr. Norman F. Carver III

Thesis: Minimizing Communication Cost in an N-Agent Distributed Bayesian Network by Using a Decentralized MDP

BS 1998 **Computer Science** **Southern Illinois University, Carbondale**

PUBLICATIONS

Blog posts

J. Koren. "Ozlo's Knowledge Base" <https://medium.com/teamozlo/ozlos-knowledge-base-eb74204d7e6c>

Open Source Projects

GOWN. A Golang implementation of WordNet <https://github.com/ozlo/gown>

Conference Proceedings

D. Tunkelang, **J. Koren**, P. Ogilvie, J. Wang. Social Navigation: A Position Paper. Proceedings of the 5th Workshop on Human-Computer Interaction and Information Retrieval (HCIR '11). Poster Session. Mountain View, CA, USA.

J. Koren, Y. Zhang, and X. Liu. Personalized Faceted Search. Proceedings of the 17th International Conference on the World Wide Web (WWW '08). Beijing, China.

J. Koren, Y. Zhang, S. Ames, A. Leung, C. Maltzahn, and E. Miller. Searching and Navigating Petabyte Scale File Systems Based on Facets. Proceedings of the 2nd ACM Petascale Data Storage Workshop (PDSW '07). International Conference for High Performance Computing, Networking, Storage, and Analysis (SC '07). Reno, NV, USA.

Y. Zhang and **J. Koren**. Efficient Bayesian Hierarchical User Modeling for Recommendation Systems. Proceedings of the 30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR '07). Amsterdam, The Netherlands.

Book Chapters

M. Stefaner, S. Ferré, S Perugini, **J. Koren**, Y. Zhang "User Interface Design," in Dynamic Taxonomies and Faceted Search G. Maria and Y. Tzitzikas (Eds.). Springer 2009.

TECHNICAL SKILLS

Programming languages: Go, Python, Java, Perl, Lisp, C/C++

Data Technologies: Hadoop / MapReduce, Pig, Kafka, SQL / Hive, Lucene

Web Technologies: HTML, PHP, CSS, Javascript, D3

Experience: big data, data analytics, distributed systems, machine learning, personalization and recommendation systems, search, natural language processing and understanding, data visualization