

Xiaolei Li

Curriculum Vitæ

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U.S. Citizen

Research Interests

Data mining, social networks, data warehousing, data indexing, machine learning.

Education

- 2004–Present* University of Illinois at Urbana-Champaign.
Ph.D. candidate in Computer Science. 3.93 GPA. Advisor: Jiawei Han.
Passed Ph.D. qualifying exam in Fall 2004.
- 2003–2004* University of Illinois at Urbana-Champaign, May 2004.
M.S. in Computer Science. 3.92 GPA. Advisor: Jiawei Han.
Thesis: High-Dimensional Online Analytical Processing: A Minimal Cubing Approach.
- 1999–2002* University of Illinois at Urbana-Champaign, May 2002.
B.S. in Computer Science with Honors. Mathematics Minor. 3.73 overall GPA, 3.90 technical GPA.

Employment

- May 2003–Present* Research assistant, National Center for Supercomputing Applications (NCSA).
Developed data mining, information retrieval, and information extraction software in D2K environment for Automated Learning Group.
- May 2005–Aug 2005* Summer intern, HRL Laboratories, Malibu, CA.
Developed software and algorithms for natural language processing and social network mining.
- Aug 2002–May 2003* Teaching assistant, University of Illinois at Urbana-Champaign.
CS 431 – Embedded systems.
- 1996–2001* Database & web programmer, summer intern, EnSite, Inc., Omaha, NE.

Awards and Honors

- Fall 2004* Data Mining Research Group Silver award, University of Illinois at Urbana-Champaign.
- Spring 2004* Data Mining Research Group Bronze award (as voted by the members of Data Mining Research Group), University of Illinois at Urbana-Champaign.
- 2002–2003* Excellent Teaching Assistant Awards, University of Illinois at Urbana-Champaign.
- Spring 2001* Dean’s List, University of Illinois at Urbana-Champaign.
- Fall 2000* Dean’s List, University of Illinois at Urbana-Champaign.
- 1999–2000* James Scholar, University of Illinois at Urbana-Champaign.

Teaching

- Spring 2003* CS 331, Embedded Systems. Teaching assistant.
- Fall 2002* CS 331, Embedded Systems. Teaching assistant.

Publications

All listed in chronological order of publication date.

Refereed Journals

- [1] “Making SVMs Scalable to Large Data Sets using Hierarchical Cluster Indexing.” Hwanjo Yu, Jiong Yang, Jiawei Han, Xiaolei Li. *Data Mining and Knowledge Discovery: An International Journal (DMKD)*. *To appear*.

Refereed Conferences

- [2] “Mining Evolving Customer-Product Relationships in Multi-Dimensional Space.” Xiaolei Li, Jiawei Han, Xiaoxin Yin, Dong Xin. Proceedings of the 21st International Conference on Data Engineering (ICDE 2005), Tokyo, Japan, April 2005 (acceptance rate, 19%). Poster paper.
- [3] “Scalable Construction of Topic Directory with Nonparametric Closed Termset Mining.” Hwanjo Yu, Duane Sears Smith, Xiaolei Li, Jiawei Han. Proceedings of the 4th IEEE International Conference on Data Mining (ICDM 2004), Brighton, UK, November 2004 (acceptance rate, 23%). Short paper.
- [4] “High-Dimensional OLAP: A Minimal Cubing Approach.” Xiaolei Li, Jiawei Han, Hector Gonzalez. Proceedings of the 30th International Conference on Very Large Data Bases (VLDB 2004), Toronto, Canada, August 2004 (acceptance rate, 19%). Full paper.
- [5] “Star-Cubing: Computing Iceberg Cubes by Top-Down and Bottom-Up Integration.” Dong Xin, Jiawei Han, Xiaolei Li, Benjamin W. Wah. Proceedings of the 29th International Conference on Very Large Data Bases (VLDB 2003), Berlin, Germany, September 2003 (acceptance rate, 15%). Full paper.

Other Publications

- [6] “High-Dimensional Online Analytical Processing: A Minimal Cubing Approach.” Xiaolei Li. Master’s Thesis. University of Illinois at Urbana-Champaign, May 2004.

Software and Demos

- Email classification and retrieval system using SVM and D2K, NCSA. Spring 2004.
- Hierarchical topic directory of news articles, NCSA. Spring 2004.
- Online high-dimensional data cubing, Midwest Database Research Symposium. Chicago, IL. April 2004.

Professional Services

- External reviewer for:
 - Very Large Data Bases (2005).
 - ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (2005).
 - IEEE International Conference on Data Engineering (2005).
 - IEEE International Conference on Data Mining (2004).
- Member of Association for Computing Machinery (1999–Present).

References

Available upon request.