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Education

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| Rensselaer Polytechnic Institute
Ph.D., Computer Science, August 2007. (GPA 3.73) | Troy, NY, USA |
| Rensselaer Polytechnic Institute
M.S., Computer Science, May 2002. (GPA 3.6) | Troy, NY, USA |
| Johns Hopkins University
B.S., Computer Science, May 2000. (GPA 3.22) | Baltimore, MD, USA |

Research Interest Computational Biology, Comparative Genomics, and Data Mining

Publications

- B. Phoophakdee and M. Zaki, *TRELLIS+: An Effective Approach for Indexing Massive Sequence*, **Pacific Symposium on Biocomputing**, January 2008.
- B. Phoophakdee and M. Zaki, *Genome-scale Disk-based Suffix Tree Indexing*, **ACM SIGMOD International Conference on Management of Data**, June 2007.
- M. Zaki, N. Parimi, N. De, F. Gao, B. Phoophakdee, J. Urban, V. Chaoji, M. Hasan, and S. Salem, *Towards Generic Pattern Mining*, **International Conference on Formal Concept Analysis**, February 2005. (Shorter version published as an invited paper in **Pattern Recognition and Machine Intelligence**)
- M. Zaki, N. De, F. Gao, P. Palmerini, N. Parimi, J. Pathuri, B. Phoophakdee, and J. Urban, *Generic Pattern Mining Via Data Mining Template Library*, **Constraint-Based Mining and Inductive Databases**, 2004

Technical Reports

- B. Phoophakdee and M. Zaki, *Trellis: An Effective Algorithm for Constructing Disk-based Suffix Trees with Suffix Links*, **RPI CS Dept Technical Report 06-03**, 2006.
- M. Zaki and B. Phoophakdee, *MIRAGE: A framework for mining, exploring and visualizing minimal association rules*, **RPI CS Dept Technical Report 03-04**, 2003.

Research Experience

Research Assistant, September 2002 - December 2006

Rensselaer Polytechnic Institute, Department of Computer Science, Troy, NY, USA

- Development of **MIRAGE**, a JAVA-based interactive visualization software for association rule mining
- A part of **DMTL** or Data Mining Template Library initial development team
- Development of **TRELLIS**, an efficient persistent suffix tree indexing algorithm for large genome sequences

Teaching Experience

- *Teaching Assistant*, January 2007 - May 2007
Rensselaer Polytechnic Institute, Department of Computer Science, Troy, NY, USA
Assisted in the teaching of Computer Science II course. The course taught advance C++ programming and data structures.
- *Teaching Assistant*, January 2002 - May 2002
Rensselaer Polytechnic Institute, Department of Computer Science, Troy, NY, USA
Assisted in the teaching of Computer Science II course. The course taught introductory C++ programming and fundamental data structures.

Courses Taken

Data Mining, Bioinformatics, Machine Learning, Computer Algorithms, Generic Programming, Operating Systems, Computability and Complexity, Programming Languages, Numerical Computing, Network Programming in Java, Enterprise Java Programming, Computer Communication Networks, Software Engineering, Graph Theory, and Human Computer Interface

Computer Skills

Operating Systems: Microsoft Windows, Mac OS, Unix-based OS

Programming Languages: C/C++, Java, Perl, SQL, Assembly (x86 architecture)

Tools: BioPerl, Matlab, bash shell scripting, L^AT_EX

Professional Activities

I was a reviewer for the following conferences:

- Pacific-Asia Conference on Knowledge Discovery and Data Mining 2007
- Data Warehousing and Knowledge Discovery 2007
- Principles and Practice of Knowledge Discovery in Databases 2007
- SIAM Data Mining Conference 2006
- Pacific-Asia Conference on Knowledge Discovery and Data Mining 2006
- IEEE International Symposium on Computer-Based Medical Systems 2006
- International Conference on Management of Data 2006
- Workshop on Ontology Mining and Knowledge Discovery from Semistructured documents 2006

Awards

- ★ *Royal Thai Scholarship*, 1995 - 2002
- ★ *Teaching Assistantship*, January - May 2002
- ★ *Research Assistantship*, September 2002 - December 2006
- ★ *Teaching Assistantship*, January - May 2007
- ★ *PSB 2008 Travel Award*, Received travel award from Applied Biosystems to attend Pacific Symposium on Biocomputing, January 2008

References

- **Mohammed J. Zaki**, Associate Professor, CS Department, Rensselaer Polytechnic Institute