

Tim Weninger

CONTACT INFORMATION 1408 Beechwood Terrace *Voice:* (620) 664-7020
Apt. 13 *Fax:* (785) 532-7353
Manhattan, KS 66506 USA *E-mail:* weninger@ksu.edu
www.cis.ksu.edu/~weninger

CITIZENSHIP United States of America

RESEARCH INTERESTS Machine Learning, Artificial Intelligence, Graph Theory, Social Networks, Distributed Computing, Computer Science Pedagogy, Computing Policy and Ethics

EDUCATION **University of Somewhere**, Ourtown, USA
Ph.D., Computer Science (Expected in May 2012)

- Area of Study: Database and Information Systems

Kansas State University, Manhattan, Kansas USA

M.S., Computer Science December 2008

- Thesis: “Link Mining in Very Large Graphs by Constructive Induction using Genetic Programming”
- Advisor: Dr. William H. Hsu
- Area of Study: Intelligent Systems
- GPA: 4.0

B.S., Information Systems, May 2007

- *Magna cum Laude*
- GPA: 3.874
- Major GPA: 4.0
- University Honors Program
- Honors Thesis: “Link Mining in Social Networks”

ACADEMIC EXPERIENCE

Kansas State University, Manhattan, Kansas USA

Research Associate **January 2009 to May 2009**

- Laboratory for Knowledge Discovery in Databases
Technical lead and principal architect on a large information analysis and synthesis project.

Kansas State University, Manhattan, Kansas USA

Research Assistant **August 2005 to December 2008**

- Laboratory for Knowledge Discovery in Databases
Led and participated in several research projects related to machine learning, data mining and information retrieval.

Kansas State University, Manhattan, Kansas USA

Graduate Teaching Assistant **August 2007 to December 2008**

- Computing and Information Sciences Department
CIS 200 – Fundamentals of Software Design and Implementation
CIS 560 – Database System Concepts

Data Sciences Summer Institute, University of Illinois, Urbana, Illinois USA

Research Fellow

Summer 2008

- Multimodal Information Access and Synthesis
Lead a small group of researchers in developing a the web-search application *Webster*.

AWARDS

Kansas State University

- Knight of St. Patrick, 2007
- Academic Scholarship, 2003–2007
- First in Class, 2003

Kelce Foundation

- Leadership Award, 2006

Sigma Alpha Epsilon Fraternity

- True Gentleman Award, 2003

REFEREED
PUBLICATIONS

Crow, J. and Weninger, T. “Creating interactive and dynamic choice experiments”, 29th Conference of the Society of Judgment and Decision Making (SJDM), Chicago, Illinois. Nov. 14-17, 2008.

Al-Jandal W., Hsu W. H., Bahirwani, V., Caragea, D., Weninger, T. “Validation-Based Normalization and Selection of Interestingness Measures for Association Rules”, In Proceedings of the 18th International Conference on Artificial Neural Networks in Engineering (ANNIE’2008). St. Louis, MO, Nov 9–12, 2008.

Hsu W. H., Weninger T., Paradesi, M. S. R. “Predicting Links and Link Change in Friends Networks Supervised Time Series Learning with Imbalanced Data”, In Proceedings of the 18th International Conference on Artificial Neural Networks in Engineering (ANNIE’2008). St. Louis, MO, Nov 9–12, 2008.

Weninger T., Hsu W. H. “Web Content Extraction Through Histogram Clustering”, In Proceedings of the 18th International Conference on Artificial Neural Networks in Engineering (ANNIE’2008). St. Louis, MO, Nov 9–12, 2008.

Weninger T., Hsu W. H. “Text Extraction from the Web via Text-To-Tag Ratio”, In Proceedings of the 19th International Conference on Database and Expert Systems Applications (DEXA’2008) Workshop on Text-based Information Retrieval. Turin, Italy, Sept 1–5, 2008.

Hsu W. H., Lancaster J., Paradesi M. S. R., and Weninger T. “Structural Link Analysis from User Profiles and Friends Networks: A Feature Construction Approach”, In Proceedings of the International Conference on Weblogs and Social Media (ICWSM’2007). Boulder, CO, March 26–28, 2007.

Hsu W. H., King A. L., Paradesi M. S. R., Pydimarri T., and Weninger T. “Evolutionary Data Mining For Link Analysis: Preliminary Experiments On A Social Network Test Bed”, Late Breaking Paper, Genetic and Evolutionary Computation Conference 2006 (GECCO’2006). Seattle, WA, July 2006.

Hsu W. H., King A. L., Paradesi M. S. R., Pydimarri T., Weninger T. “Collaborative And Structural Recommendation Of Friends Using Weblog-Based Social Network Analysis”, In Proceedings of Computational Approaches to Analyzing Weblogs - AAAI 2006 Technical Report SS-06-03, pp. 55–60, Stanford, CA, March 2006.

PROFESSIONAL
EXPERIENCE

Core Recognition Services - **Lockheed Martin Systems Integration**, Owego, New York, USA

Technical Senior Specialist

Summer 2009

- Note sure yet.

Advanced Decision Support Systems - **Union Pacific Railroad**, Omaha, Nebraska, USA

Research Programmer

Summer 2007

- Worked on decision support systems for train routing and transaction processing using the Java Expert System Shell (JESS) and CLIPS systems. The expert system application was implemented as a service and is capable of handling thousands of requests per hour.
- Designed graph representation and visualization tools for railroad tracks and depots. Specifically, I implemented graph embedding algorithms using the *Spring* algorithm, and, using the same technique, I implemented a visualization for the visualization and search of enterprise’s service schemas.

Comsumer Electronics Division - **Garmin International**, Olathe, Kansas, USA

Software Engineer

Summer 2006

- Developed *FoodPod* device and various software adaptations for the *Forerunner x05* series GPS devices. This work included hardware calibration and embedded systems programming in order to receive wireless communications from the *FoodPod*.
- Developed caloric burn rate calculator that uses personal-health data to determine personalized optimal exercise details.

IT and Software Based Manufacturing - **National Nuclear Security Administration’s Kansas City Plant operated by Honeywell FM&T**, Kansas City, Missouri, USA

Systems Engineer III

Summer 2005

- Classified – Developed non-nuclear parts for nuclear weapons.
- Obtained DOE level Q security clearance (highest available).

Office of Admissions and Financial Aid - **Kansas State University**, Manhattan, Kansas, USA

Student Programmer

January 2004 - May 2007

- Developed department intranet and internal office document handling system.
- Performed daily software maintenance and administration tasks.

MEMBERSHIP

Association for Computing Machinery (ACM)

2004–present

Kansas State University Student Government Association

- Director of Technology
- Faculty Senate Representative
- Senator

2008
2007–2008
2004–2008

Kansas State University Engineering Student Council

2003–2006

SECURITY
CLEARANCE

Department of Energy Level Q (expired: 2005)