SARA JAVANMARDI

EDUCATION

Ph.D., Informatics & Computer Science, 2006 – 2011
University of California, Irvine, GPA: 4.0/4

M.Sc., Software Engineering, 2004 – 2006
Sharif University of Technology, GPA: 18.87/20
(**1st Rank** in cumulative GPA among M.Sc. students graduated 2006)

B.Sc., Software Engineering, 1999 – 2004
Iran University of Science & Technology, GPA: 17/20
(**1st Rank** in cumulative GPA among B.Sc. students, 2002–2003)

HONORS AND AWARDS

- **Winner** of **Microsoft Bing hack day** and **Bing Social hack day**, Nov 2011 & August 2012 (Invited judge for **Microsoft Bing Hack day** Jury, Nov 2012)
- 3rd rank in **Microsoft Query Speller Challenge**, June 2011.
- **Amazon** AWS Research Grant, Winter 2011.
- 3rd Rank in international competition for Automatic Detection of Vandalism in Wikipedia, sponsored by **Yahoo! research**, July 2010.
- Student Travel Award by **IBM** to attend KDD, July 2010.
- Student Travel Award by **Google** to attend WSDM, Feb 2010.
- Student Travel Award by **NSF** to attend CollaborateCom, Feb 2010.
- Student Travel Award by **Microsoft** to attend Grace Hopper, Sep 2009.
- **NSF** fund for the project "Development of Trust Management Systems for Cyber Infrastructures", granted by NSF, January 2007 – 2011.
- Butterworth award for Development of Secure e–Passports based on Smart Cards, spring 2007.
- PhD admission and Fellowship offer for three years from University of California, Irvine, 2006.
- **1st Rank** in cumulative GPA among M.Sc. students of the Computer Engineering department, Sharif University of Technology, summer 2006.
- **1st Rank** in cumulative GPA among B.Sc. students of the Computer Engineering department, Iran University of Science & Technology, 2002–2003.

PATENTS

- Search User Interface Using Outward Physical Expression (pending)

INDUSTRY EXPERIENCE

Research Software Engineer, Microsoft Bing Sep 2011 – Now

- Core Ranking: working on cutting edge ranking technologies
- Contextual Relevance: **personalization, diversification** and **recommendations**

Research Intern, University of Washington Summer 2010

- Classification of Wikipedia Barnstar Users; using text mining and user behavior analysis, the goal is of this project is automatic labeling of barnstar users in Wikipedia. This project includes "short text classification" and "multi-label classification".
- **Technologies Used:** Java, WEKA, SVM Light, Rapid Miner, multi-label classification Java Libraries such as Mulan.

Research Intern, Microsoft Research (ISRC Group) Summer 2009

- On improving search relevance using 2–stage smoothing bigram language models. The goal was to find a ranking algorithm with higher accuracy in terms of NDCG values compared to BM25.
- **Technologies Used:** MapReduce Clusters, Machine Learning tools, .Net framework

Research Intern, Microsoft Research (ISRC Group) Summer 2008

- On clustering web documents using bigram language models. The goal was the application of 1–stage smoothing bigram language models for online clustering by reducing the document vector size.
- **Technologies Used:** .Net framework and its extensions such as PFX (Parallel Programming in .Net)

RESEARCH EXPERIENCE

Research Assistant, UC Irvine Summer 2007 – Summer 2011

- PhD thesis: Measuring Content Quality in User Generated Content Systems: a Machine Learning Approach
- I developed a reputation management system for Wikipedia. (Started Winter 2007)
- I developed a tool for vandalism detection in Wikipedia (Started Winter 2008)
- I developed a tool for multi label classification of Wikipedia barnstars(Started Summer 2010).
- I developing a MapReduce based tool for cost sensitive feature selection.
- **Technologies Used:** J2EE, Weka, Hadoop, R, Mulan.

Teaching Assistant, UC Irvine Winter 2010,2012

Information Retrieval

- Crawling, Indexing, Ranking, MapReduce

Teaching Assistant, UC Irvine Fall 2007–Spring 2007

- Teaching assistant for Software Engineering, Software Architectures, and Social Aspects of Computing courses.

Research Intern, Linkoping Universitet, Sweden March 2006 – April 2006

- On Trust Management in Distributed and Dynamic Environments

Research Assistant, Sharif University of Technology Fall 2005 – Summer 2006

- On Security in Pervasive Computing Environments

Teaching Assistant, Iran University of Science and Technology Winter 2003 – Spring 2003

- Teaching assistant for Algorithm Analysis& Discrete Mathematics courses

JOURNALS AND BOOK CHAPTERS

- **S. Javanmardi**, D. McDonald, R. Caruana, S. Forouzan, and C. Lopes, Learning To Detect Vandalism in Social Web Content. Accepted for publication in Studies in Mining Social Networks and Security Informatics by Springer.
- **S. Javanmardi**, C. Lopes and Pierre Baldi, Modeling User Reputation in Wikipedia, Journal of Statistical Analysis and Data Mining, Vol. 3, No. 2, pp. 126–139, 2010.
- **S. Javanmardi**, C. Lopes, Trust in Community-Built Databases/Collaborative IS in Community-Built Databases: Research and Development, will be published in Springer ISKM Series, Aug 2010.

CONFERENCES

- D. McDonald, **S. Javanmardi**, and M. Zachry, Finding Patterns in Behavioral Observations by Automatically Labeling Forms of Wikiwork in Barnstars , submitted to WikiSym 2011.
- **S. Javanmardi**, D. McDonald, and C. Lopes, Vandalism Detection in Wikipedia: A High-Performing, Feature–Rich Model and its Reduction Through Lasso, submitted to WikiSym 2011.

- **S. Javanmardi**, C. Lopes, Statistical Measure of Quality in Wikipedia, KDD'2010 Workshop on Social Media Analytics, Washington DC, USA, 2010.
- **S. Javanmardi**, Y. Ganjisaffar, C. Lopes and P. Baldi, "Measuring Quality of the Content in Wikipedia using User Reputation", AAAI Conference on Weblogs and Social Media (Data Challenge)
- **S. Javanmardi**, Jianfeng Gao and Kuansan Wang, Optimizing Two–Stage Smoothing Bigram LMs for IR, WWW 2010.
- **S. Javanmardi**, C. Lopes and Stanley Grant, Future of Scientific Web Content: Web 2.0, Mashups and Guided Search, WebScience 2010.
- **S. Javanmardi**, C. Lopes and Pierre Baldi User Contribution and Trust in Wikipedia, Proceed¬ings of the 5th International Conference on Collaborative computing: Networking, Applications and Worksharing, Washington DC, USA, 2009.
- Y. Ganjisaffar, **S. Javanmardi**, C. Lopes, Using User Reviews to Improve Search in Wikipedia, SIGIR 2009 Workshop on Search in Social Media, Boston, USA, 2009.
- Y. Ganjisaffar, **S. Javanmardi**, C. Lopes, Leveraging Crowdsourcing Heuristics to Improve Search in Wikipedia, to appear in Proceedings of the 5th International Symposium on Wikis and Open Collaboration (WikiSym), Florida, USA, 2009.
- Y. Ganjisaffar, **S. Javanmardi**, C. Lopes, Review-based Ranking of Wikipedia Articles, Computational Aspects of Social Networks, 2009.
- Y.GanjiSaffar, **S. Javanmardi**, S.Grant and C. Lopes, A Wiki based Data Sharing Platform, Proceedings of the 4th International Conference on Collaborative computing: Networking, Applications and Worksharing, Orlando, USA, 2008.
- **S. Javanmardi** and C. Lopes, Modeling Trust in Collaborative Information Systems, Proceed¬ings of the 3rd International Conference on Collaborative computing: Networking, Applications and Worksharing, New York, USA, 2007.
- **S. Javanmardi**, M. Amini and R. Jalili, An Access Control Model for Protecting Semantic Web Resources, Proceedings of the 2nd International Semantic Web Policy Workshop, Athens, GA, USA, 2006.
- **S. Javanmardi**, M. Amini, R. Jalili, and Y. Ganjisaffar, SBAC: Semantic Based Access Control, Proceedings of the 11th Nordic Workshop on Secure IT-systems, Linkoping, Sweden, 2006.
- **S. Javanmardi**, H. Hemmati, and R. Jalili, An Access Control Framework for Pervasive Computing Environments, Proceedings of the 2006 World Congress in Computer Science Computer Engineering, and Applied Computing, Las Vegas, Nevada, 2006. USA.

RELEVANT GRADUATE COURSES

- Machine Learning (A+)
- Probability Learning (A)
- Bayesian Statistics (A)
- Information Retrieval (A)
- Distributed Systems (A+)
- Parallel Processing (A)
- Advanced Data Structures and Algorithms (A)

PEER REVIEW FOR JOURNALS and Conferences

- Journal of Statistical Analysis and Data Mining
- IEEE Transactions on Knowledge and Data Engineering
- Knowledge and Information Systems
- Information Security Journal
- CSCW Conference
- WikiSym Conference