Xin Ye

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Research Interests

Search-based software engineering, programming languages, information retrieval, machine learning, pattern recognition, human-computer interaction, mobile application

Education

Ohio University   Athens, Ohio, USA
Ph.D., Computer Science, *Expected:* December 2015 (GPA 3.9) August 2010 - present
- Dissertation: *Learning to Rank Relevant Files for Bug Reports using Domain Knowledge*
- Advisors: Dr. Chang Liu and Dr. Razvan Bunescu

Beijing Institute of Technology,   Beijing, China
M.S., Electronic Engineering, (GPA 3.7)   August 2004 - July 2006
- Thesis: *Booting Linux with U-Boot on a Digital Signal Processing Board with a Xilinx Virtex-II pro FPGA and ADI TigerSHARC DSP*
- Advisors: Dr. Yue Wang
B.S., Electronic Engineering, (GPA 3.5)   September 2000 - July 2004

Employment

Ohio University   Athens, Ohio, USA
Graduate Research Assistant, Advisor: Dr. Chang Liu   August 2010 to present
- Automated software engineering based on information retrieval and machine learning.
- Work in a NSF GK-12 project to assist high school scientific education. Work with professors and graduate fellows from four different departments to develop mobile educational games and corresponding lesson plans. Work with high school teachers to bring the games and lesson plans to the classrooms in eight high schools in Ohio.
- Software visualization for agile software development.

Guangdong Materials Group Corporation   Guangzhou, China
Assistant Manager, Information Technology Dept.   May 2008 to August 2010
- Build and maintain the local enterprise network for the headquarter and all subsidiaries. Assist in the building and maintenance of the ERP and the eCommerce systems.

ZTE corporation   Shenzhen, China
Hardware Engineer, Storage Product Line   August 2006 to December 2007
- Work on the hardware design of a SAS RAID storage server.

Beijing Institute of Technology   Beijing, China
Graduate Research Assistant   August 2004 to July 2006
- Develop the hardware and embedded software for a signal processing board with FPGA, PowerPC, and DSP integrated..

Publications

1. **Xin Ye**, Hui Shen, Xiao Ma, Razvan Bunescu, Chang Liu. "From Word Embeddings To Document Similarities for Improved Information Retrieval in Software Engineering". *Accepted to the 38th International Conference on Software Engineering (ICSE 2016)*, Austin, TX, May 2016. (Acceptance Rate: 19%, 101 out of 530)

2. **Xin Ye**, Razvan Bunescu, Chang Liu. "Mapping Bug Reports to Relevant Files: A Ranking Model, a Fine-grained Benchmark, and Feature Evaluation", to appear, *IEEE Transactions on Software Engineering (TSE)*, 2015, doi:10.1109/TSE.2015.2479232

3. **Xin Ye**, Razvan Bunescu, Chang Liu. "Learning to Rank Relevant Files for Bug Reports using Domain Knowledge". *In Proceedings of the 22nd ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE 2014)*,

pp. 66-76, Hong Kong, China, November 2014. (Acceptance Rate: 22.3%, 61 out of 273)

4. Chang Liu, **Xin Ye**, En Ye. "Source Code Revision History Visualization Tools: Do They Work and What Would it Take to Put Them to Work?". *Access, IEEE*, vol.2, no., pp.404-426, 2014.

5. Tiao J. Chang, John Bentz, Justin Wiseman, Yanhui Fang, Andrew Copley, Chang Liu, Sertac Ozercan, **Xin Ye**, Nathan Andre, and Qing Zhu. "A Sustainable Model for Water Resources and Environmental Education". *In Proceedings of International Conference on Sustainable Design, Engineering and Construction (ICSDEC 2012)*, pp. 955-974, Fort Worth, Texas, USA, November 2012.

6. Qing Zhu, Yanhui Fang, **Xin Ye**, Tyler Hogue, Chang Liu, Tiao J Chang, Teresa Franklin, Kelly Johnson. "Comparing Learning Outcomes of an iPad Game, In-Class Experiments, and a Field Trip in Water Quality Education" 2014. Submitted to *Computers & Education*.

AWARDS	ACM SIGSOFT CAPS Travel Grant, FSE'14	2014
	EECS Travel Grant, Ohio University	2014
	Section Chief Promotion, Guangdong Matreials Group Corporation	2009
	Outstanding Department Awards, Guangdong Matreials Group Corporation	2009
	University Scholarship, Beijing Institute of Technology	2000-2004

TEACHING EXPERIENCE

Teaching Assistant
- CS 2400: Introduction to Computer Science, OU — Fall 2015
- CS 5040: Design and Analysis of Algorithms, OU — Fall 2015

Guest Lectures
- CS 6900: Information Retrieval, OU — Fall 2013
- CS 356/456: Software Engineering, OU — Spring 2013
- CS 356/456: Software Engineering, OU — Fall 2012
- CS 356/456: Software Engineering, OU — Spring 2012
- CS 356/456: Software Engineering, OU — Fall 2011

SKILLS

Operating System: Mac OS X, Linux, Windows
Languages: Java, C, C++, Python, SQL, Javascript, PHP, Objective-C, HTML, LaTeX
Libraries/Tools: Lucene, Nutch, Solr, Tika, Apache HTTP Server, Tomcat, Servlet, JDBC, JDT ASTParser, NLTK, SVM^{light}, SVM^{rank}, LibSVM, JUNG, POSIX Threads, OpenMP, OpenCV, U-Boot
Version Control: Git, Subversion, CVS
IDE: Eclipse, Xcode
Software: Unity, Matlab
Database: MySQL

COURSES

Design and Analysis of Algorithms, Parallel Computing, Computer Networking, Software Engineering, Medical Image Analysis, Image Understanding, Three Dimensional Software Application, Natural Language Processing, Machine Learning, Information Retrieval, Differential Equations

MEMBERSHIP

ACM Student Member, ACM SIGSOFT Student Member, IEEE Student Member

REFEREES

Dr. Chang Liu
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Dr. Razvan Bunescu
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Dr. Shawn Ostermann
Associate Dean for Research, Graduate Studies, and Planning
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