

Wei Fu

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EDUCATION

- PhD. CS North Carolina State University** Aug, 2013 - Present
GPA: 3.98/4.0
- MS. EE Beijing University of Posts and Telecomm** Sep, 2009 - Apr, 2012
Overall GPA: 83/100, Major GPA: 86/100.
- BS. EE Nanjing University of Technology** Sep, 2005 - Jun, 2009
Overall GPA: 88/100, Major GPA: 90/100, Ranking: 5%.

PROJECTS

Transfer Learning in Software Engineering May, 2015 - Present
Research Assistant with Dr. Tim Menzies, North Carolina State University, USA

- The goal of the research is to enable software engineers to find software development best practices from past empirical data. For some new projects or small companies, historical data may not be available. This project proposes to use data from different software projects or even different companies to build a learning model by transfer learning methods, potential defects in the new software modules or projects will be predicted based on features collected from the code repositories.

Search-based Software Engineering Sep, 2014 - Present
Research Assistant with Dr. Tim Menzies, North Carolina State University, USA

- One of the “black arts” of data mining is setting the tuning parameters that control the miner. By using searching algorithms like Differential Evolutionary, we offer a simple, automatic, and very effective method for finding those tunings. In our experiment, when learning software defect predictors, this method can quickly find tunings that alter detection F-Measure from 12% to 78%. These results prompt for a change to standard methods in software analytics. At least for defect prediction, it is no longer enough to just run a data miner and present the result *without* conducting a tuning optimization study.

P2P File Sharing System Feb, 2014 - Apr, 2014
Coursework, North Carolina State University, USA

- Implemented a simple Peer-to-Peer system with a centralized index, in which a concurrent server that is capable of carrying out communications with multiple clients simultaneously and maintains the peer and files lists accordingly when peers join and leave randomly.

Intelligent Patrol Monitoring System Mar, 2010 - Dec, 2010
Leader, Beijing University of Posts and Telecommunications, China

- This system will help mobile network company (China Mobile) to manage daily maintenance works, especially for those work about checking transmitting bases, fiber networks and so on. The manager can distribute working schedules and check corresponding progress. Also, they could monitor and track any teams working in the field on Google Map.

SKILLS & COURSES

<i>Programming</i>	Python, C++, Java, R, Matlab, ASP.NET, JavaScript, HTML, Ajax SQL, Google Maps API, Bootstrap, Grunt
<i>Operating System</i>	Mac OS X, Linux, Windows
<i>Related Courses</i>	Computer Networks, Internet Protocol, Algorithm, Operating System, Statistics, Software Engineering, Search-based Software Engineering, Advanced SE, Database System, Spatial and Temporal Data Mining

PUBLICATION

- W. Fu, T. Menzies, X. Shen, “Tuning for Software Analytics: is it Really Necessary?”, *IEEE/ACM ICSE 2016*, submitted.
- W. Fu, R. C. Yao, F. Gao, J.C.F. Li, and M. Lei, “Robust Null-Space Based Interference Avoiding Scheme for D2D Communication Underlying Cellular Networks,” *IEEE WCNC*, Shanghai, China, Apr. 2013.