

# SHIN HWEI TAN

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Contact Information	School of Computing Block COM1, #01-16 13 Computing Drive Singapore 117417	Mobile: +65-91203168 Email: shinhwei@comp.nus.edu.sg Website: <a href="http://www.comp.nus.edu.sg/~shinhwei/">http://www.comp.nus.edu.sg/~shinhwei/</a>
Research Interests	My current research is mainly focused on program testing and program repair. I have proposed new methods and developed research tools to facilitate dynamic code comment analysis using test case generation tool. I am currently looking at improving the existing techniques for program repair.	
Education	<b>National University of Singapore</b> , Singapore Ph.D., School of Computing, August 2012-present <ul style="list-style-type: none"><li>• Thesis Topic: Automated repair of software regressions</li><li>• Adviser: Abhik Roychoudhury</li><li>• Current CAP: 4.5/5.00</li></ul> <b>University of Illinois at Urbana-Champaign</b> , Champaign, IL M.S., Computer Science, May 2012 <ul style="list-style-type: none"><li>• Thesis Topic: <i>@tComment: Testing Javadoc Comments to Detect Comment-Code Inconsistencies</i></li><li>• Advisers:<ul style="list-style-type: none"><li>• Darko Marinov</li><li>• Lin Tan</li></ul></li><li>• Overall GPA: 3.91/4.00</li></ul> B.S.(Hons), Computer Science, May 2010 <ul style="list-style-type: none"><li>• Thesis Topic: Theories/Parameterized tests for JUnit</li><li>• Adviser: Darko Marinov</li><li>• Overall GPA: 3.68/4.00</li></ul>	
Conference Publications	<ol style="list-style-type: none"><li>1. J. Yi, D. Qi, S. H. Tan, A. Roychoudhury. Expressing and Checking Intended Changes via Software Change Contracts. In: International Symposium on Software Testing and Analysis (ISSTA 2013), pages TO APPEAR, Lugano, Switzerland, July 2013. (acceptance: 26%, 32/124)</li><li>2. S. H. Tan, D. Marinov, L. Tan, and G. T. Leavens. @tComment: Testing Javadoc Comments to Detect Comment-Code Inconsistencies. In: International Conference on Software Testing, Verification, and Validation (ICST 2012), pages 260-269, Montreal, Canada, April 2012. (acceptance: 27%, 39/145)</li><li>3. B. Daniel, D. Dig, T. Gvero, V. Jagannath, J. Jiaa, D. Mitchell, J. Nogiec, S. H. Tan, and D. Marinov. ReAssert: A Tool for Repairing Broken Unit Tests. In: International Conference on Software Engineering, Demonstrations Track (ICSE Demo 2011), pages 1010-1012, Honolulu, HI, May 2011. (acceptance: 37%, 22/60)</li></ol>	
Professional Activities	<ul style="list-style-type: none"><li>• ISSTA 2014, Artifact Evaluation Committee</li></ul>	
Conference Presentations	<ul style="list-style-type: none"><li>• ICST 2012, regular paper track, Montreal, Canada. (April 17-21, 2012)</li></ul>	

Teaching Experience	<p><b>University of Illinois at Urbana-Champaign</b>, Champaign, IL</p> <p><i>Teaching Assistant</i>, August 2010 to May 2012</p> <p>Teaching Assistant for CS242: Programming Studio Laboratory</p> <ul style="list-style-type: none"> <li>• Spring 2012 (2 sections)</li> <li>• Responsible for supervision of programming assignments presentation for 5-6 students per section</li> </ul> <p>Teaching Assistant for CS427: Software Engineering I</p> <ul style="list-style-type: none"> <li>• Fall 2010 and Fall 2011</li> <li>• Responsible for 1-hour supervision of 2-hour office hours.</li> <li>• Graded bi-weekly programming assignments for 20 groups of students</li> </ul> <p>Teaching Assistant for CS428: Software Engineering II</p> <ul style="list-style-type: none"> <li>• Spring 2011</li> <li>• Provided support for online students through the Illinois Internet Computer Science Program(I2CS)</li> <li>• Graded bi-weekly programming assignments for 20 groups of students</li> </ul> <p><i>Undergraduate Assistant for Railroad Department</i>, August 2007 to May 2009</p> <ul style="list-style-type: none"> <li>• Carried out an independent project on automated web retrieval</li> <li>• Maintained MS Access database for daily tank car accident reports</li> <li>• Debugged and programmed using Visual Basic, Ruby and HTML</li> </ul>
Working Experience	<p><b>Intel Corporation</b>, Penang, Malaysia</p> <p>Summer Intern for Testing Hole Resolution(THR) <b>June 2011 to August 2011</b></p> <ul style="list-style-type: none"> <li>• Developed and implemented automation for MS Windows script automation engine to improve efficiency in running automated tests.</li> <li>• Implemented features and developed error handling for program featuring Perl, AutoIt and Tcl</li> </ul>
Awards and Honors	<ul style="list-style-type: none"> <li>• David J. Kuck Outstanding MS Thesis Award (2013)</li> <li>• Singapore International Graduate Award (2012-2015)</li> <li>• ACM-W Scholarship (2012)</li> <li>• Malaysian Government Scholarship (2006-2010)</li> <li>• Rockwell Collins Scholarship (2009)</li> <li>• Motorola Academic Scholarship (2008)</li> </ul>
Software Skills	<p>Computer Programming:</p> <ul style="list-style-type: none"> <li>• Java, C, C++, Visual Basic, Matlab</li> </ul> <p>Version Control and Software Configuration Management:</p> <ul style="list-style-type: none"> <li>• DVCS (Mercurial/MQ, Git/StGit), and VCS (CVS, SVN )</li> </ul> <p>Software Test:</p> <ul style="list-style-type: none"> <li>• Randoop, JUnit</li> </ul>
Language Skills	<p>Fluent in Mandarin, Cantonese, English and Malay</p>