

KHOO YIT PHANG

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Education

University of Maryland – GPA 3.9 of 4.0.

Ph.D. in Computer Science, present.

University of Southern California – GPA 3.9 of 4.0.

Bachelor of Science in Electrical Engineering, *Summa Cum Laude*, May 2005.

Minor in Psychology.

Work Experience

Summer Intern, **IBM T.J. Watson Research Center.**

Summer 2007

I worked with the Integrated Solutions Engineering group to enable programmers to manage and explore software artifacts. My main work was a multi-foci fisheye visualization-based plugin for Eclipse.

Student Researcher, **USC Robotics.**

Fall 2004 - Spring 2005

As a member of the USC Robotics student group, I helped design and build a robotic submarine for the AUVSI & ONR's 8th International Autonomous Underwater Vehicle Competition. Specifically, I was responsible for the implementation of the battery, kill-switch, and diving ballast subsystems.

<<http://ilab.usc.edu/uscrobotics>>

Student Researcher, **NASA Jet Propulsion Laboratory.**

Summer 2003 - Fall 2003

I programmed the actuator and gait controllers for two Micro-Robot Explorer designs—Webcrawler, which is a small, spider-like robot, and the Brachiation-bot, a simple, two-appendage robot—both capable of crawling upside-down across a rigid mesh.

<<http://www-robotics.jpl.nasa.gov/tasks/showTask.cfm?FuseAction=ShowTask&TaskID=30&tdaID=2585>>

Teaching Experience

Teaching Assistant, **UMD Department of Computer Science**

CMSC 411 : Computer Systems Architecture

Spring 2006

CMSC 434 : Introduction to Human-Computer Interaction

Fall 2006

CMSC 434 : Introduction to Human-Computer Interaction

Spring 2006

CMSC 131: Object-Oriented Programming 1

Fall 2005

Refereed Publications

Khoo Yit Phang, Jeffrey S. Foster, Michael Hicks, and Vibha Sazawal. Path Projection for User-Centered Static Analysis Tools. In *Proceedings of the 8th ACM SIGPLAN-SIGSOFT Workshop on Program Analysis for Software Tools and Engineering (PASTE 2008)*. November 2008.

Penelope Brooks, Khoo Yit Phang, Rachael Bradley, Douglas Oard, Ryen White, and François Guimbretière. Measuring the Utility of Gaze Detection for Task Modeling: A Preliminary Study. In *Proceedings of the Workshop on Intelligent User Interfaces for Intelligence Analysis, International Conference on Intelligent User Interfaces (IUI 2006)*. January 2006.

Technical Reports

Khoo Yit Phang, Michael Hicks, Jeffrey S. Foster, and Vibha Sazawal. Directing Javascript with Arrows (Functional Pearl). Technical Report CS-TR-4923, University of Maryland, Department of Computer Science, August 2008. <<http://hdl.handle.net/1903/8400>>

Khoo Yit Phang, Jeffrey S. Foster, Michael Hicks, and Vibha Sazawal. Path Projection for User-Centered Static Analysis Tools (Technical Report). Technical Report CS-TR-4919, University of Maryland, Department of Computer Science, August 2008. <<http://hdl.handle.net/1903/8369>>

Posters

Khoo Yit Phang, Michael Hicks, Jeffrey S. Foster, and Vibha Sazawal. Directing Javascript with Arrows (Poster Summary). In *Poster Proceedings of the 13th ACM SIGPLAN International Conference on Functional Programming (ICFP 2008)*. September 2008.

Other Experiences

2001 and 2002 ACM Southern California Region Programming Contest.

Honors and Awards

UMD Graduate School Goldhaber Award.

USC School of Engineering W.V.T. Rusch Engineering Honors Program.

USC Engineering Deans' Scholarship.

USC International Deans' Scholarship.

USC Deans' List Award in 2003, 2004 and 2005.