

Tristan Ratchford

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Education

M.Sc Computer Science, McGill University, 2011

B.A Economics and Computer Science (Double Major), McGill University, 2009

Papers and Publications

Tak Yeon Lee, Casey Dugan, Werner Geyer, Tristan Ratchford, Jamie Rasmussen, N. Sadat Shami, Stela Lupushor. Experiments on Motivational Feedback for Crowdsourced Workers. Proceedings of the 7th International AAAI Conference on Weblogs and Social Media, July 2013.

Tristan Ratchford. Creating application programming interface code templates from usage patterns. Masters Thesis. McGill University, December 2012.

Reid Holmes, Tristan Ratchford, Martin P. Robillard, and Robert J. Walker. Automatically Recommending Triage Decisions for Pragmatic Reuse Tasks. Proceedings of the 24th IEEE/ACM International Conference on Automated Software Engineering, November 2009.

Martin P. Robillard and Tristan Ratchford. Ranking Cross-Reference Search Results for Program Navigation. Technical Paper [SOCS-TR-2009.8]. School of Computer Science, McGill University.

Experience

Software Engineer Aug 2011-Present
IBM Research IBM T.J. Watson (Cambridge)
Description: Social business and collaboration reasearch.

Research Intern May 2010 - Aug 2010
Supervisor: Li-Te Cheng IBM T.J. Watson (Cambridge)
Description: Software for a Cause

Research Assistant Jan 2009 - May 2009
Supervisor: Martin Robillard McGill University
Description: Automatically Recommending Triage Decisions for Pragmatic Reuse Tasks.

Research Assistant Dec 2007 - Sept 2008
Supervisor: Martin Robillard McGill University
Description: Ranking Cross-Reference Search Results for Program Navigation.

Research Project - ECON 481 Dec 2007 - Jun 2008
Supervisor: Jim Engle-Warnick McGill University
Description: Creation of agent based simulation to test market efficiency of zero-intelligence traders under different emission trading scenarios.

Research Assistant May 2007 - Jul 2007
Supervisors: S. Durocher and M. Robillard McGill University
Description: Employed graph theory techniques for concern characterization.

Teaching

Teaching Assistant Comp 303 - Software Development	Fall 2010 McGill University
Teaching Assistant Comp 202 - Intro to Java Programming	Winter 2010 McGill University
Teaching Assistant Comp 303 - Software Development	Fall 2009 McGill University

Technical Skills

Languages : Java, JavaScript,C, Python, AspectJ, SML, Bash Scripting

Web Tech : JavaEE, jQuery, Underscore.js, HTML, CSS, dwr, Dojo, XML, Google App Engine, Twitter API, Instagram API, Facebook API, Vaadin, QRBarcodes

Systems Tech : Apache Ant, GIT, CVS, SVN, JazzSCM, JUnit, EC2

Graphics : OpenGL, Swing, AWT, Processing, Apache Sanselan

Server Admin : Apache httpd, Tomcat, DB2

Databases : PostGres,DB2, MyBatis

Static Analysis : Soot

Machine Learning : Weka, SPMF

OS: Unix (RHEL, SUSE), OSX

Theory: Design patterns, software architecture, concurrent programming, software modelling, advanced algorithms

Other : Eclipse Plug-in development, Apache Lucene, Eclipse JDT, Microsoft Kinect, Stata, L^AT_EX, QuarkXpress, Z-Tree

Clubs and Activities

2011 - Reviewer CHI Works-in-Progress track

2010 - Co-Reviewer 33Rd ACM/IEEE International Conference on Software Engineering(ICSE 2011)

2010 - Co-Reviewer 18th ACM International Symposium on the Foundations of Software Engineering (FSE 2010)

2010 - Co-Reviewer 18th IEEE International Conference on Program Comprehension (ICPC 2010)

2008 - Chief Layout Editor - 2007-2008 McGill Historical Discourses Journal

2007 - Interactive Networking Group - Founder and Former President

2007 - McGill SPCA - VP of Club Affairs

Volunteer Work

CS Games 2007

Ontario Provincial Track and Field Championship 2002