

Jamie Starke

CONTACT INFORMATION	Department of Computer Science University of Victoria Engineering/Computer Science Building, Room 504 PO Box 3055, STN CSC Victoria, BC Canada V8W 3P6	<i>Phone:</i> (778) 977-3465 <i>E-mail:</i> jrstarke@gmail.com <i>WWW:</i> www.jamiestarke.com <i>Twitter:</i> @jamiestarke
CITIZENSHIP	Canadian	
RESEARCH INTERESTS	Software Engineering, Human-Aspects of Software Engineering, Human-Computer Interaction, Tool Support, Web-based Systems	
EDUCATION	The University of Victoria , Victoria, BC Canada Ph.D., Computer Science, Currently <ul style="list-style-type: none">• Advisor: Professor Margaret-Anne Storey• Relevant Courses: Computer Supported Collaborative Work• Cumulative GPA: 9.0 of 9.0 The University of Calgary , Calgary, AB Canada M.Sc., Computer Science, November 2010 <ul style="list-style-type: none">• Thesis Topic: Finding What is Important: Understanding and Improving Source Code Search• Advisor: Assistant Professor Jonathan Sillito• Relevant Courses: Qualitative Research Methods in Software Engineering, Research Methods in Human-Computer Interaction, Information Visualization, Interactive Tabletops and Surfaces• Cumulative GPA: 4.0 of 4.0 B.Sc., Computer Science, November 2008 <ul style="list-style-type: none">• <i>With Distinction</i>• Relevant Courses: Software Development in Teams and Organizations, Human-Computer Interaction, Web-Based Systems, Data Base Management Systems• Cumulative GPA: 3.6 of 4.0	
AWARDS	Natural Sciences and Engineering Research Council <ul style="list-style-type: none">• Alexander Graham Bell Canada Graduate Scholarship - Doctorate, 2010• NSERC Postgraduate Scholarship - Masters, 2008 The University of Calgary <ul style="list-style-type: none">• Department Research Award, Department of Computer Science, 2009• Department Research Award, Department of Computer Science, 2008• Dean's Research Excellence Award, Faculty of Graduate Studies, 2008• Dean's List, Faculty of Science, 2008• Archie and Hugh Bothner Bursary, 2007• Student Peer Assistance Undergraduate Bursary, 2007• Jason Lang Scholarship, 2007	

The University of Calgary, Calgary, AB Canada

Teaching Assistant

January 2009 to April 2010

- Instructor: [Jonathan Sillito](#)
- Course: [SENG 301: Analysis and Design of Large-Scale Software I](#)
- Instructed bi-weekly laboratories on the analysis of requirements, through design, implementation and testing, with emphasis put on individual skills.
- Graded students' assignments
- Prepared examples to aid in student understanding

Teaching Assistant

September 2009 to December 2009

- Instructor: [Ben Stephenson](#)
- Course: [CPSC 217: Introduction to Computer Science for Multidisciplinary Studies I](#)
- Instructed two laboratories two times each on the fundamentals of computer programming utilizing the Python Language
- Graded students' assignments

Research Assistant

May 2009 to August 2009

- Supervisor: [Jonathan Sillito](#)
- Performed further analysis of the data from our [Understanding Search Behaviour study](#).
- Analysis focused on the behaviours of the programmers and of patterns of searching.

Teaching Assistant

September 2008 to April 2009

- Instructor: [Jonathan Sillito](#)
- Course: [SENG 301: Analysis and Design of Large-Scale Software I](#)
- Instructed bi-weekly laboratories on the analysis of requirements, through design, implementation and testing, with emphasis put on individual skills.
- Graded students' assignments

Research Assistant

September 2008 to December 2008

- Supervisor: [Jonathan Sillito](#)
- Performed a user study with the objective of [Understanding Search Behaviour](#).
- Study involved 10 participants, each of which would attempt to diagnose some undesirable behaviour in Subclipse.
- Analyzed the results of this study to look at higher level behaviours, such as how many results to a search a programmer will regularly explore.

Research Assistant

June 2008 to August 2008

- Supervisor: [Jonathan Sillito](#)
- Development of a web-based tool called [Scrutinize](#).
- The tool uses a Django web server with a Python back-end and a Flex/Actionscript user interface.
- [Scrutinize](#) is designed to allow members of a development team to explore through information in a source code repository, such as information about what aspect of a project are changed and whom implemented those changes.

Undergraduate Student

January 2004 to June 2008

Undergraduate Researcher

June 2007 to August 2007

- Supervisor: [Jonathan Sillito](#)
- Development of a code exploration tool called the Code Set Tool.
- The Code Set Tool is an Eclipse plug-in that collects possible code elements of interest, and allows programmers to combine the sets to answer higher level meaningful questions about the source code.
- Performed a small user study and analysis of the screen recording and audio to evaluate the effectiveness and usefulness of the tool.

CONFERENCE
PUBLICATIONS
(AVAILABLE ON
WEBSITE)

Gargi Bougie, Jamie Starke, Margaret-Anne Storey and Daniel German. 2011. *Towards Understanding Twitter Use in Software Engineering: Preliminary Findings Ongoing Challenges and Future Questions*. In Proceedings of the 2nd International Workshop on Web 2.0 for Software Engineering.

Jamie Starke. 2010. *Finding What is Important: Understanding and Improving Source Code Search*. Master of Science thesis, Department of Computer Science, University of Calgary, July 2010.

Jamie Starke, Chris Luce and Jonathan Sillito. 2009. *Searching and Skimming: An Exploratory Study*. In Proceedings of the IEEE International Conference on Software Maintenance. pp. 157-166.

Jamie Starke, Chris Luce and Jonathan Sillito. 2009. *Working with Search Results*. In Proceedings of the 1st International Workshop on Search-driven development: Users, Infrastructure, Tools and Evaluation. pp. 53-56.

Chris Luce, Jamie Starke, Tom Zimmermann and Jonathan Sillito. 2008. *Scrutinize: Exploring a Project's Revision History*. Appeared as a video at the ACM conference on Computer Supported Cooperative Work.

Fraser, C., Luce, C., Starke, J., Sillito, J. 2008. *Tool support for working with sets of source code entities*. In Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing. pp. 73-77.

PRESENTATIONS

Jamie Starke. *Searching and Skimming: An Exploratory Study*. Presented at the IEEE International Conference on Software Maintenance. 2009.

Jamie Starke. *Working with Search Results*. Presented at the 1st International Workshop on Search-driven development: Users, Infrastructure, Tools and Evaluation. 2009.

Starke, J. *Tool support for working with sets of source code entities*. Presented at the IEEE Symposium on Visual Languages and Human-Centric Computing. 2008.

PROFESSIONAL
EXPERIENCE

Student Geeks Inc., Calgary, AB Canada

Co-owner and Onsite Technician

October 2005 to January 2009

- Handled day to day operations of the business.
- Created long-term business relationships with our clients.

The University of Calgary, Calgary, AB Canada

Understanding Searching Behaviour

When performing Program Modification tasks, some amount of searching is usually involved to find where the change should be made. Little is known about programmers use the search tools built into today's Integrated Development Environments. This project looks at how developers actually search through the source code of a project to which they are new.

Scrutinize

Scrutinize is a web based tool designed to take information from a source code repository, and present it in a way that allows project team members to learn about how the project has been changing and who has made those changes.

Code Set Tool

The code set tool is a prototypical research tool that assists programmers with answering the questions they have about the code base. The Code Set tool works with an Integrated Development Environment and returns to the user sets of source code entities.

SERVICE

Vice President of Internal Relations, [Computer Science Graduate Society](#), 2009–2010

- Organizing and/or providing representation for graduate students on a number of Department committees, including:
 - Department meetings
 - Undergraduate Affairs Committee
 - Hiring Committee

Student Volunteer Coordinator, [Interactive Tabletops and Surfaces](#), 2009

- Organizing of student volunteers for the conference.
- Coordinating the smooth operations of the associated events at the conference.

Student Volunteer, [International Conference on Software Engineering](#), 2009

- Helping with operations of the conference, including registration.

Laboratory Representative, Laboratory Representative Committee, [Computer Science Graduate Society](#), 2008–2009

- Representing the students of my Laboratory to the Computer Science Graduate Society
- Providing feedback on CSGS initiatives and events

Vice President of Events, [Computer Science Undergraduate Society](#), 2007–2008

- Planning and organizing of events
- Communicating with external organizations for joint events
- Advertising events to the students through both posters and online means
- Planning several large parties throughout the year to bring Computer Science Students together, and give them to mingle in a more casual environment

TECHNICAL SKILLS **Programming:** Python, Java, PHP, HTML, Processing, C#, Drupal, SQL, XML, C, UNIX shell scripting, Pascal, CVS, SVN, Git, and others

Operating Systems: Microsoft Windows 7, Vista, XP, 2000, NT, 98, 95, 3.0, Apple OS X, Linux, BSD, Solaris, and other UNIX variants

Applications: Eclipse, Microsoft Visual Studio, L^AT_EX, B_IB_TE_X, Microsoft Office, and other common productivity packages for Windows, OS X, and Linux platforms

PERSONAL
INTERESTS

This is a list of some of my many hobbies:

- Many things having to do with computers:
 - Creating programs
 - Setting up and configuring computers
 - Building webservers
 - Designing and maintaining website concepts
- Photography
- Hiking
- Snowboarding
- Cooking
- Games (video games, board games, card games)