

# Susan Villecroze

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## Work and Skills Summary

Specialized in Human-Computer-Interaction and designing user interfaces. Experienced in managing research, working with human subjects and ethics, writing research papers, and delivering presentations. Studied interaction techniques for medical imaging using eye trackers. Acquired knowledge in the areas of ubiquitous computing, social navigation, mixed-initiative interaction, and usability. Five years experience designing and developing web pages. Assisted professors in teaching at Simon Fraser University for courses in computing science. Completed required sixteen months of work experience with the Physics Co-op program at the University of Victoria. Gained experience in research areas of astronomy and wrote various programs for meteorologists and hydrologists. Programmed tasks in Mac, Windows, and Unix environments.

<b>Programming Languages:</b>	C C++ Java Python Visual Basic Scheme
<b>Scripting and Markup Languages:</b>	Perl VBscript XHTML JavaScript CSS
<b>Internet Technologies:</b>	PHP CGI ASP
<b>Database Technologies:</b>	MySQL Oracle
<b>Operating Systems:</b>	Mac OS X Windows XP UNIX (Solaris) QNX 6.3
<b>Office Applications:</b>	Word Excel PowerPoint
<b>Graphics Software:</b>	Photoshop CS Illustrator 10

## Education

**M.Sc. Candidate: Computer Science**, Simon Fraser University, August 2007

**B.Sc. Degree: Combined Major in Physics/Astronomy, Minor in Computer Science**, University of Victoria, 1995-2001

## Work Experience

**Simon Fraser University – Research Assistant, (Since October 2006)**  
**Burnaby, B.C**

Investigating how the use of annotations can improve a user's understanding of a given satellite schedule. Pre-computed schedules, conducted user studies, worked with video equipment and iMovie, and performed qualitative analysis. The results will be used to inform future designers on how to design schedulers with annotation capability.

**Simon Fraser University – Teaching Assistant, Tutor Marker, (January 2006 to April 2007)**  
**Burnaby, B.C**

Conducted labs, held office hours, marked assignments and exams, invigilated exams, helped design a course project, and provided online help to students in first-year programming courses in Python and Visual Basic.

Assisted in teaching for the course "Introduction to Computing Science and Programming I." Tutor marked for the distance education course "Event-Driven Programming in Visual Basic." Assisted in teaching for a fourth year course in "Web Information Systems."

**hexaZen (self-employed) – Web Designer, Web Developer, Webmaster, (Since January 2004)  
Vancouver, B.C**

Completed the design and implementation of the hexaZen website. Created all the graphics, including the icons and logos. Overlooking all web maintenance and database administration. The website has been hand-coded using web standards; all pages are validated for XHTML 1.0 and CSS, and the site has been tested on many different browsers and operating systems, including handheld devices. hexaZen delivers tools, components and libraries to C++ developers for the QNX real-time operating systems, and offers website design and development and custom software engineering. Customers include Trium, Kathleen Leangen Photography, and ED-BC.

**Environment Canada – Programmer, Webpage Designer, (January to August 2000)  
Vancouver, B.C**

Wrote program scripts in Perl for the Canadian Climate Centre. Programs included those which output daily buoy summaries and monthly historical weather reviews. Designed and developed a technical support website for the Water Survey of Canada. The website allowed hydrometric technicians to enter and query database information, and taught them how to program dataloggers.

**Canada-France-Hawaii Telescope Corp. – Research Assistant, (September to December 1998)  
Kamuela, Hawaii**

Produced a program in Perl that automatically detected moving objects in the solar system, such as faint Trans-Neptunian objects. Worked with the general purpose software system, IRAF, for the reduction and analysis of astronomical data. Took part in Multi-Object Imaging Spectrograph observations on Mauna Kea and used the data gathered as a test for the object detection program.

**Dominion Astrophysical Observatory – Research Assistant, (January to April 1998)  
Victoria, B.C**

Participated in the analysis of spectra of the star 1 Sco. GHRS data were reduced and spectral parameters such as equivalent widths were determined. Studied and contributed in the data reduction of Herbig-Haro objects and jets using the software system, IRAF. Raw CCD images were processed, cosmic ray cleaned, and aligned.

## **Other Skills and Interests**

**Web Application Design/Development:** Created a personal library for DVDs, VHS videos, and books in PHP using MySQL. This page is password protected and is intended only for home use.

**Volunteer:** Volunteered for FACTS, an organization which provides free AIDS/HIV counseling treatment and support for Anglophones in Paris. As an event coordinator, I have organized and taken active roles in a few successful fundraising events for FACTS. Volunteered for United Way at SFU in the fall of 2006.

**Exercise and Hobbies:** Ran the Marathon International de Paris (42.195 km) in April 2003. Completed the Paris-Mantes 54km night walk in January 2003. Certified as a Class A Novice by the Canadian Sport Parachuting Association. Love to cook, draw, hike, rock climb, learn French, and organize events.