

Erika Harrison

eharris@ucalgary.ca

Calgary, AB, Canada

COMPUTER SKILLS:

- Operating Systems: Windows XP/7/8, Mac OSX, Linux/Unix - Red Hat, Ubuntu
 - Languages: C/C++/C#, OpenGL, DirectX, Java, Qt, LaTeX, HTML, PHP, MySQL, Xcode
 - Software: Microsoft Visual Studio, Eclipse, Perforce, Tortoise SVN, CVS, Unity, Microsoft Office
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EMPLOYMENT

Teaching Assistant

September 2009 to April 2013

University of Calgary, Calgary, Alberta

- *prepared and presented material for undergraduate students within introductory computer science, algorithms and data structures, and introductory computer graphics courses*
- *awarded best TA in a third year course Fall 2010; nominated for Teaching Excellence Award Fall 2009*

Escalation Developer

April 2007 to June 2008

Softimage, Montreal, Quebec

- *within a comprehensive 3D graphics application, developed and debugged a variety of high-need components requiring swift delivery - C++, OpenGL, multi-threading support for Windows and Unix*
- *supported rendering, 3D object and mesh manipulation, shaders, physical simulation and state-based AI*

Junior 3D Graphics Software Developer

August 2006 to March 2007

Calgary Scientific Inc, Calgary, Alberta

- *developed and extended the rapidly expanding C/C++ codebase for the company's main medical imaging solution, supplementing the part-time senior graphics developer*
- *researched advanced algorithms and medical technologies for use in development*

EDUCATION

University of Calgary, Calgary, AB

January 2012 to present

PhD in Computer Science

Thesis: 3D Reconstruction of Organic Shapes

University of Calgary, Calgary, AB

September 2009 to December 2011

Masters of Science, in Computer Science

Thesis: Equal Area Subdivision

Publications:

E. Harrison, A. Mahdavi-Amiri, and F. Samavati. *Optimization of Inverse Snyder Polyhedral Projection*. Proceedings of the International Conference on CyberWorlds. 2011

University of Waterloo, Waterloo, ON

September 2001 to April 2006

Bachelors of Mathematics, with Honours Co-operative in Computer Science

Additional Electives: Fine Arts Electronic Imaging, Zoology

ADDITIONAL SKILLS

LEADER/COORDINATOR:

- Hiking trip leader for Calgary Outdoor Nuts (Summer 2012 to present)
- Cross country skiing trip leader for the Calgary Ski Club (Winter 2010 to present)
- One of four directors for UW's Math Orientation Week 2004 (Fall 2003 to Fall 2004). Responsibilities included:
 - Collaborating with other directors; hiring and motivating 150 volunteer leaders; coordinating 1,000 first year math students
 - Organizing coordinators in acquiring sponsorship, construction of a first year handbook, clothing and novelty orders for leaders and first years, budgeting and finances, three major leader events, and four major first year events.
 - One of two co-ordinators for a UW Spirit Day within Orientation Week for 5,000 first year students
- Coordinator & Leader for UW's Math Orientation Week (Fall 2002 & 2003)

VOLUNTEER:

- Volunteer for the Lake Louise Loppet (2011 - present)
- Volunteer for University of Calgary President Installation (October 2010)
- Volunteer for Bridges Math-Art Conference (Banff, AB Summer 2009)
- Save the Turtles of Parismina Volunteer (Costa Rica, August 2005)

ACTIVITIES & INTERESTS

- Participant of Calgary Ultimate Association's summer teams (Summer 2009 - present)
- Assistant in the CEMC Young Women's Computer Science Seminar
Calgary, AB, June 2010 - 2013 (one week seminar)
- Jackaroo/Jillaroo Australian Outback Training participant
Brisbane, Australia, November 2008
- Enjoy: hiking, cross country skiing, swimming, frisbee and watching movies