Simon Breslay

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EDUCATION

University of Toronto

Toronto, Canada

M.Sc. in Computer Science (computer graphics concentration)

September 2008 - May 2010 (expected)

Advisor: **Dr. Aaron Hertzmann**

Thesis work: A new rendering technique for creating animations of 3D scenes in a range of fexible, non-photorealistic styles designed to produce temporally coherent animations that resemble hand-made drawings, prints, and paintings.

University of Michigan

Ann Arbor, MI

B. Sc. in Computer Science

September 2002 - May 2006

Undergraduate Research: Under Dr. Lee Markosian's supervision, led a group project in artisitic rendering resulting in a SIGGRAPH 2007 publication.

PUBLICATIONS

Towards the Photonic Nose: A Novel Platform for Molecule and Bacteria Identification.
Leonardo D. Bonifacio, Daniel P. Puzzo, Simon Breslav, Barbara M. Willey, Allison McGeer, Geoffrey A. Ozin.

Advanced Materials 2009

O Dynamic 2D Patterns for Shading 3D Scenes.

SIGGRAPH 2007

Simon Breslav, Karol Szerzen, Lee Markosian, Pascal Barla, Joëlle Thollot.

Stroke Pattern Analysis and Synthesis.

Eurographics 2006

Pascal Barla, **Simon Breslav**, Joëlle Thollot, François Sillion, Lee Markosian.

○ Interactive Hatching and Stippling by Example.

Technical Report, INRIA - 2006

Pascal Barla, **Simon Breslav**, Joëlle Thollot, Lee Markosian.

☐ RELEVANT EXPERIENCE

Research Intern

Adobe Creative Technology Lab (reporting to Dr. David Salesin)

June 2009-August 2009

Seattle, WA

 Under the mentoriship of Dr. Holger Winnemöller, independently researched and implemented an image-based hair analysis, design, and manipulation framework using C++ and MATLAB.

Software Engineer, New Product Technology Group

Software Engineer, Application Technology Group

Thomson Reuters (Formerly Thomson West)

April 2008 - June 2008

July 2006 - April 2008

Eagan, MN

- Worked on several high-impact projects improving Westlaw.com, a search engine for legal content used by over 100,000 legal professionals.
- Developed and supported publicly visible interfaces as well as backend web services using C#, Javascript/AJAX, XHTML, CSS, XSL.
- Implemented projects both individually and as part of teams using traditional waterfall and agile (Scrum) development process.

Assistant in Research

February 2004 - June 2006

University of Michigan College of Engineering

Ann Arbor, MI

- Led and collaborated on various 3D graphics related projects in the areas of non-photorealistic rendering and pattern synthesis.
- Extended and maintained *jot-lib*, an open source collection of **C++/OpenGL** libraries and **GLSL** shaders used for 3D graphics research.

Intern Developer *Auryn Animation Studio*

May 2005 - August 2005

Los Angeles, CA

- Independently extended proprietary software used in production using C++ and OpenGL.
- Developed Maya MEL Scripts and C++ plug-ins used by animators in production of short animated films.

Illustrator Right Brain Books, LLC June 2004 - August 2004

Farmington Hills, MI

O Independently produced ten fairytale illustrations for a book *The Search For Unrational Leadership* by Charles Fleetham.

☐ TECHNICAL & ARTISTIC SKILLS

- O Working in teams and independently in academic and industrial settings.
- Experienced in **C/C++** (5+ years), **C#** (2 years), **MATLAB** (2 years), **Javascript** (2 years).
- Familiar with Python, ActionScript 3, Java, OpenGL/GLSL, SQL, XHTML, CSS, XSL, Maya API/MEL.
- Development experience on Mac OS X, Windows, and Linux platforms using nVidia and ATI video cards.
- Experience producing Story Illustrations and Comics.

■ VOLUTEER EXPERIENCE

Weekly Mentorship Program Volunteer

September 2007-May 2008