

## Education

**MSc. - Computer Science** Sep 2008 – Sep 2009  
**PhD. - Computer Science** Sep 2009 – present

*DGP Lab, University of Toronto, Toronto, ON*

Emphasis of study on computer graphics, vision, and machine learning.  
Worked with Dr. Aaron Hertzmann on developing a system for interactive painterly animation. Currently pursuing research in learning models for aesthetics.

**BSc. (Hon.) Computer Science** Sep 2000 – Apr 2005

*IMG Lab, University of Saskatchewan, Saskatoon, SK*

Honors Thesis: Techniques and Applications in Optical Flow - Image stabilization of translational camera motion with region tracking

## Scholarships & Awards

**Canada Graduate Scholarship (Doctoral)** 2010 – 2013

NSERC Research Scholarship

*Top national doctoral award in natural sciences and engineering*

**Julie Payette Award** 2009 – 2010

NSERC Research Scholarship

*National award to the top 24 Masters candidates in natural sciences and engineering*

**Most Outstanding Graduate in Computer Science** 2004 – 2005

University of Saskatchewan

**ISM Corporation Scholarship** 2004 – 2005

University of Saskatchewan

*Awarded to the top academic student in 4<sup>th</sup> year*

## Publications

P. O'Donovan, A. Agarwala, A. Hertzmann. (2011) **Color Compatibility From Large Datasets**. Accepted to SIGGRAPH 2011.

P. O'Donovan, A. Hertzmann. (2011) **AniPaint: Interactive Painterly Animation From Video**. IEEE Transactions on Visualization and Computer Graphics, Vol. 99, 2011.

P. O'Donovan, D. Mould. (2006) **Felt Rendering**. 4<sup>th</sup> International Symposium on Non-Photorealistic Animation and Rendering (NPAR 2006), Jun. 5 – Jun. 7, 2006. Annecy, France.

M. Winter, C. Brooks, G. McCalla, J. Greer, P. O'Donovan. (2004) **Using Semantic Web Methods for Distributed Learner Modeling**. 2nd International Workshop on Applications of Semantic Web Technologies for E-Learning (SW-EL 04) held in conjunction with the International Semantic Web Conference (ISWC 2004), Nov. 7 - Nov. 11, 2004. Hiroshima, Japan.

## Work Experience

### Research Intern

May 2010 – Aug 2010

*Adobe Systems Inc, Seattle, WA*

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- Worked with Dr. Aseem Agarwala researching color compatibility from large online databases including Adobe Kuler

### Energy Market Software Analyst Team Lead Energy Market Software Analyst

Oct 2007 – Jun 2008

Jun 2006 – Oct 2007

*The SPi Group, Client Services, Toronto, ON*

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- Responsible for the operation of billing systems with over 150,000 accounts for over \$100 million annually
- Software development of operations tools and user interfaces for data warehousing and billing systems
- Designed and lead development for an interface which increased department productivity by 4 hours per person per day
- Team lead supervising 4 junior analysts
- Training new analysts in the department

### Undergraduate Research Assistant

Apr 2005 – Sep 2005

*University of Saskatchewan, Computer Science, IMG Lab, Saskatoon, SK*

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- Research in computer vision including texture segmentation and recognition
- NSERC Research Scholarship under the supervision of Dr. Mark Eramian

### Undergraduate Research Assistant

Apr 2004 – Sep 2004

*University of Saskatchewan, Computer Science, ARIES Lab, Saskatoon, SK*

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- Research in knowledge representation, semantic webs, and user modeling
- NSERC Research Scholarship under the supervision of Dr. Gord McCalla

### Undergraduate Research Assistant

Apr 2003 – Sep 2003

*University of Saskatchewan, Computer Science, DISCUS Lab, Saskatoon, SK*

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- Research in networking and multicast streaming distribution of non-linear media
- NSERC Research Scholarship under the supervision of Dr. Derek Eager