

Dustin Freeman

Dynamic Graphics Project
Department of Computer Science
University of Toronto
Cell: 416.918.7467
dustin@cs.toronto.edu
www.dustinfreeman.org

EDUCATION

- 2014(expected) **Ph.D. Computer Science**
UNIVERSITY OF TORONTO
Advisor: Prof. Ravin Balakrishnan
- 2010 **M.Sc. Computer Science**
UNIVERSITY OF TORONTO
Advisor: Prof. Ravin Balakrishnan
Thesis: Tangible Actions: More Efficient Direct Multitouch Through Replaying Gestures
Received Wolfond Fellowship
- 2008 **B.Sc. Mathematics and Engineering**
QUEEN'S UNIVERSITY
Thesis: Motion-based Image Segmentation Without Motion Computation
Advisor: Prof. Abdol-Reza Mansouri
Notable Electives: Semiotics, Greek and Roman Drama, Introduction to Cognitive Science,
Electronics, Mechatronics, Human-Computer Interaction, Advanced User Interface Design
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PROFESSIONAL RESEARCH EXPERIENCE

- Spring 2011 **Microsoft Research Cambridge**
Working on a project related to the Xbox Kinect.
Supervisors: Otmar Hilliges, Abigail Sellen, Shahram Izadi
- Summer 2010 **HP Labs India**
Worked on developing a set of widgets for from-a-distance gestural interaction.
Supervisor: Sriganesh Madhvanath
- Spring 2009 **Microsoft Research Redmond**
Worked on multi-touch and whole-hand gesture learning.
Supervisors: Hrvoje Benko, Daniel Wigdor, Meredith Ringel-Morris
- Summer 2008 **Queen's University, School of Computing**
NSERC USRA AWARD
Explored curved multitouch interfaces.
Supervisor: Prof. Roel Vertegaal, Human Media Lab
- Summer 2006 **Queen's University, Mathematics and Statistics Dept.**
NSERC USRA AWARD
Implemented Semi-definite programming algorithms to analyze phase behaviour in high-temperature superconductivity.
Supervisor: Prof. Bob Erdahl, Quantum Phases Group
- Summer 2005 **Queen's University, Mechanical Engineering Dept.**
RESEARCH ASSISTANT
Two projects: 1) Implemented a reactive daylighting system for a new building at Queen's University. 2) Empirically investigated wicking in fabrics for use in fuel cells.
Supervisor: Prof. Stephen Harrison, Solar Calorimetry Lab

PUBLICATIONS

Freeman, D., Benko, H., Ringel-Morris, M. & Wigdor, D. ShadowGuides: Visualizations for In-Situ Learning of Multi-Touch and Whole-Hand Gestures. *Proceedings of ACM Interactive Tabletops and Surfaces (ITS '09)*.

TEACHING EXPERIENCE

- CSC 108, 180 **Introduction to Computer Programming (Python)**
TEACHING ASSISTANT - TUTORIALS AND LABS
Fall 2010
- CSC 165 **Mathematical Expression and Reasoning**
TEACHING ASSISTANT - MARKING
Winter 2010
- CSC 318 **The Design of Interactive Computational Media**
TEACHING ASSISTANT - TUTORIALS
Fall 2008, Winter 2009, Fall 2009
- SCI 199 **From Social Networks to the Internet**
TEACHING ASSISTANT
Fall 2008
- APSC 171/172 **Engineering Calculus I/II**
TEACHING ASSISTANT
Fall 2006 - Winter 2008
- APSC 171 **Online Preparation Course**
COURSE MANAGER
Summer 2007.
Created an online preparation course in Calculus directed at incoming engineering students who recieved inadequate high school math instruction.
- APSC 174 **Engineering Linear Algebra**
TEACHING ASSISTANT
Winter 2008
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PROFESSIONAL SERVICE

Reviewer for CHI 2010, 2011, ITS 2010