

Dustin Freeman

Dynamic Graphics Project
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EDUCATION

- 2010 (expected) **M.Sc. Computer Science**
UNIVERSITY OF TORONTO
Advisor: Prof. Ravin Balakrishnan
Received Wolfond Fellowship
Courses: Ubiquitous Computing, Machine Learning, Computational Biology
- 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

- Summer 2010 **HP Labs India**
INTERNSHIP
Worked on developing a set of widgets for from-a-distance gestural interaction.
Supervisor: Sriganesh Madhvanath
- Spring 2009 **Microsoft Research Redmond**
INTERNSHIP
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
Worked on two research projects: Implementing a daylighting algorithm using Radiance software and material scanning in the Integrated Learning Center at Queen's University, and empirically understanding wicking in fabrics for use in fuel cells.
Supervisor: Prof. Stephen Harrison, Solar Calorimetry Lab

RESEARCH THEME

I am inspired by how small groups of co-located people work to co-operate on complex, time-sensitive group tasks. The variety of communication techniques used by these groups is much greater than what is formally considered input for computational devices. I am interested in a computer interface that can feel more like a conversation, in a holistic sense. I am especially interested in physical expression and gesture, thanks to my background in theatrical improvisation and mime.

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)*.

PROFESSIONAL SERVICE

Reviewer for CHI 2010, ITS 2010

TEACHING EXPERIENCE

CSC 318	The Design of Interactive Computational Media TEACHING ASSISTANT Fall 2008
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 received inadequate high school math instruction.
APSC 174	Engineering Linear Algebra TEACHING ASSISTANT Winter 2008