

# EMILY WHITING

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## **EDUCATION**    **Massachusetts Institute of Technology**

Ph.D. (current)    Computer Graphics & Building Technology, Depts. of Comp. Sci. & Architecture  
M.Sc. (2006)    Design & Computation, Department of Architecture

## **University of Toronto**

B.A.Sc. (2004)    Engineering Science, Faculty of Applied Science and Engineering

## **RESEARCH**    **Architectural Modeling and Simulation**

Computer Graphics Group, MIT Computer Science Laboratory – Cambridge, MA  
Ph.D. Thesis, advised by Fredo Durand and John Ochsendorf (2006 – present)

## **Re-meshing of Free-Form Surfaces**

Design & Computation Group, MIT Department of Architecture – Cambridge, MA  
Course Project, advised by Barbara Cutler (2005 – 2006)

## **Mapping Urban Environments**

Computer Graphics Group, MIT Computer Science Laboratory – Cambridge, MA  
M.Sc. Thesis, advised by Seth Teller (2004 – 2006)

## **Image-Based Modeling for Cultural Heritage**

Center for Scientific and Technological Research, Trentino Cultural Institute – Trento, Italy  
Research Intern, advised by Sabry El-Hakim and Lorenzo Gonzo (Summer 2005)

## **Image-Based Modeling of Architecture**

Visual Information Technology Group, National Research Council of Canada – Ottawa, ON  
Research Intern, advised by Sabry El-Hakim (Summer 2001, 2004)

## **High Dynamic Range Image Processing**

Visual Information Technology Group, National Research Council of Canada – Ottawa, ON  
B.A.Sc. Thesis, advised by Sabry El-Hakim and Demetri Terzopoulos (Summer 2002)

## **Structural Design & Analysis**

Structural Engineering & Building Sciences, Yolles Partnership Inc. – Toronto, ON  
Junior Designer, advised by David Fox (2002 – 2003)

## **AWARDS**

Graduate Scholarship, Natural Sciences and Engineering Research Council of Canada (2008- 2010)  
Best Paper Presentation, 12<sup>th</sup> Intl Conf for Computer-Aided Architectural Design (2007)  
MIT Presidential Fellow (2006)  
M.Sc. Thesis Prize, Department of Architecture, MIT (2006)  
Horowitz Student Research Fund, School of Architecture & Planning, MIT (2005)  
Graduate Fellowship, Department of Architecture, MIT (2004-2006)  
Women in Eng. & Sci. Scholarship, National Research Council of Canada (2001-2004)  
Dean's Circle, University of Toronto (1999)  
University of Toronto Scholar (1999)  
Faculty of Applied Science & Engineering Admission Scholarship, University of Toronto (1999)  
Leonardo da Vinci Scholar, University of Toronto National Engineering Competition (1999)  
Certificate of Distinction, Canadian Mathematics Competitions (1994-1999)

## **TEACHING**

**Supervisor**, Undergraduate Research Opportunity Program, MIT (2007 – present)  
**Teaching Assistant**, Introduction to Computer Graphics, MIT (Fall 2007)  
**Peer Mentor**, Freshman/Alumni Student Internship Program, MIT (Summer 2006)

## **ACTIVITIES**

MIT Chamber Music Society, MIT Outing Club, soccer, squash, swimming, trekking, glass blowing.