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## Lyle M. Gordon

### Education

- 2008-Present*      **Northwestern University**, Evanston, IL.  
PhD Candidate, Materials Science & Engineering.  
Qualified November 2010. Graduation expected in 2013.
- 2004-2008*      **University of Toronto**, Toronto, ON.  
Bachelors of Applied Science with Honors, Materials Science & Engineering.

### Research Experience

- 2008-Present*      **Joester Lab**, Materials Science and Engineering, Northwestern University.  
Supervised by Dr. Derk Joester.  
Characterization of nanoscale buried organic-inorganic interfaces in biological minerals with atom-probe tomography.
- 2007-2008*      **Hibbard Lab**, Materials Science and Engineering, University of Toronto.  
Supervised by Dr. Glenn Hibbard.  
Developed and characterized a sub-millimetre scale periodic cellular material (microtruss) fabricated using rapid prototyping and electrodeposition of high-strength nanocrystalline nickel.
- May-Aug 2007*      **Orthopaedic Biomechanics Lab & Advanced Regenerative Tissue Engineering Centre**, Sunnybrook Health Sciences Centre.  
Supervised by Dr. Cari M. Whyne.  
Characterized the mechanical and biological properties of a elastin-hyaluronan composite hydrogel for tissue engineering of the nucleus pulposus.
- May-Aug 2006*      **Orthopaedic Biomechanics Lab**, Sunnybrook Health Sciences Centre.  
Supervised by Dr. Cari M. Whyne.  
Began development and validation of a finite element model of pelvic lateral compression fracture stability.
- May-Aug 2005*      **Orthopaedic Biomechanics Lab**, Sunnybrook Health Sciences Centre.  
Supervised by Dr. Cari M. Whyne.  
Developed a 3D atlas-based method to automate segmentation of metastatic vertebrae on x-ray computed tomography scans.

### Publications

List of publications attached at end.

## Work Experience

- 2007 **Physics and Math Tutor**, Toronto, ON.  
Tutored high-school level physics and math.
- 2002-2008 **Medical Practice of Dr. Hedi Erenrich**, Toronto, ON.  
Accounting and IT support.
- 2002-2004 **Cadogan & Co.**, Toronto, ON.  
Custom picture framer.
- 2002 **Toronto Image Works**, Toronto, ON.  
Co-op job placement for photographer Edward Burtynsky.
- 2000-2003 **Northern Secondary School**, Toronto, ON.  
Administration of 500 computer network.

## Grants and Fellowships

- 2010-2012 **National Science & Engineering Research Council**, Ottawa, ON.  
Postgraduate Scholarship, Doctorate (PGS-D).
- 2009-2010 **National Science & Engineering Research Council**, Ottawa, ON.  
Postgraduate Scholarship Extension, Masters (PGS-M).
- 2008-2009 **Northwestern University**, The Graduate School, Evanston, IL.  
Appointed University Scholar.
- 2008 **Northwestern University**, Evanston, IL.  
Walter P. Murphy Fellowship, Department of Materials Science and Engineering.
- 2008-2009 **National Science & Engineering Research Council**, Ottawa, ON.  
Postgraduate Scholarship, Masters (PGS-M).
- 2008 **National Science & Engineering Research Council**, Ottawa, ON.  
Alexander Graham Bell Canada Graduate Scholarship, Masters (CGS-M), *declined*.
- 2008 **Ontario Graduate Scholarship Program**, Toronto, ON.  
Ontario Graduate Scholarship (OGS), Masters, *declined*.
- 2008 **Stanford University**, Stanford, CA.  
Stanford Graduate Fellowship (SGF), *declined*.
- 2007-2008 **University of Toronto**, Toronto, ON.  
Stelco Scholarship, Department of Materials Science and Engineering.
- May 2007 **National Science & Engineering Research Council**, Ottawa, ON.  
Undergraduate Student Research Award (USRA).
- 2006-2007 **University of Toronto**, Toronto, ON.  
Scholarship, Department of Materials Science and Engineering.
- May 2006 **National Science & Engineering Research Council**, Ottawa, ON.  
Undergraduate Student Research Award (USRA).

- 2005-2006*      **University of Toronto**, Toronto, ON.  
Scholarship, Faculty of Engineering, Department of Materials Science and Engineering.
- May 2005*      **Sunnybrook Health Sciences Centre**, Toronto, ON.  
Research Summer Studentship Award.
- 2004-2006*      **University of Toronto**, Toronto, ON.  
Entrance Scholarship, Department of Materials Science and Engineering.

#### Awards

- 2009*      **Materials Research Society Fall Meeting**, Boston, MA.  
Finalist: Science as Art Competition
- 2009*      **Nikon Small World Competition**  
Image of Distinction
- 2008*      **Canadian National Concrete Canoe Competition**, Halifax, NS.  
First Place: Technical Report.
- 2007*      **Canadian National Concrete Canoe Competition**, Kingston, ON.  
First Place: Technical Presentation.
- 2004*      **Skills Canada**, Toronto, ON.  
Photography Competition District Winner
- 2004*      **Partners in Research**, Toronto, ON.  
Toronto Essay Competition, Grade 12: 1<sup>st</sup> place with essay supporting the use of gene therapy for the treatment and prevention of diseases.
- 2004*      **Ontario Ministry of Education**  
Completed secondary school, graduating as an Ontario Scholar.

#### Extracurriculars

- 2007-2008*      **UofT Concrete Canoe**  
Project Manager of the University of Toronto Concrete Canoe Team.
- 2006-2008*      **Materials Science and Engineering Student Mentor**  
Volunteered as a mentor for a first year student in the faculty of Materials Science and Engineering.
- 2006-2007*      **UofT Concrete Canoe**  
Head of concrete mix design and composite design. Continued research and development to design a carbon fiber reinforced lightweight aggregate concrete composite for use in the construction of a racing canoe. New developments included the use of poly(acrylic acid) and colloidal silica nanoparticles to improve the properties of the composite.
- 2006*      **UofT Engineering Orientation**  
Vice-chair coordinating orientation (frosh) week for 1000 incoming frosh. Also involved in distribution of financial aid for students.

*2005-2006*

**UofT Concrete Canoe**

Head of concrete mix design. Coordinated the development, testing and implementation of lightweight aggregate concrete mix used in the construction of a four-person racing canoe for a national competition.

*2004-2005*

**UofT Concrete Canoe**

Dedicated first year student helping out with the construction of a concrete racing canoe.

*2003-2004*

**Albert White Gallery, Toronto, ON.**

Photography Exhibition held November 2003 though January 2004.

**Certifications**

*2006*

Lifesaving Society Emergency First Aid with CPR-B