

Emily Ho

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STRENGTHS

- Self motivated and goal oriented.
- Excellent organizational and communication skills.
- Highly developed interpersonal skills, having worked cooperatively with variety of professional.

EDUCATION

Drexel University, Philadelphia, U.S.A.

Ph.D. Candidate in Materials Science and Engineering (GPA: 3.8)

Concentrated in Biomechanics and Synthesis of Bioactive Polymer Composites

Thesis: **Engineering Bioactive Polymers for the Next Generation of Bone Repair**

Awards:

2005 Recipient of George Hill Fellowship, Drexel University

2004 Travel Award for attending the NJ 7th Annual Biomaterials Conference

2004 Excellence in Mentorship, College of Engineering, Drexel University

2004 Semi-Finalists of USF International Business Competition

2003 Summer Student Research Grant from *American Academy of Implant Dentistry (AAID)*

2002 – 04 Dean's Fellowship from Drexel University

2002 Dean's award on Research day poster

2nd Place in Drexel's 2003 Business Plan Competition based on a novel biomedical device

2002-2004 Vice president of Society for Biomaterials Drexel University Student Chapter

University of British Columbia, Vancouver, Canada

B.A.Sc with Honors in Metal and Materials Engineering, 1998

PROFESSIONAL EXPERIENCE

Drexel University, Philadelphia, U.S.A

Research Assistant (2001 – Present)

- Determine the biocompatibility and mechanical properties of several bone replacements.
- Organize regular meeting with the research work support company
- Train undergrad co-op students regularly on preparing the experimental materials.
- Hold responsibility for the biohazard safety procedures of a biomaterials laboratory.

Drexel University, Philadelphia, U.S.A

Teaching Assistant (Spring and Summer 2002-03, Fall and Winter 2003-04)

- Lectured some sessions of the undergraduate Material Science courses
- Graded quizzes and final examinations for over 200 undergraduate students
- Prepared and Ran some experiments for the laboratory course

- Replied the email and questions from students

Hong Kong Productivity Council, Hong Kong
Process Engineer (1998 – 2000)

- Performed physical chemistry and mechanical testing.
- Reviewed testing result with client and made appropriate recommendation.
- Prepared testing reports for various clients, which required speed, accuracy and attention to completeness.
- Acted as liaison between Chemistry Unit and Metallurgy Unit.

PUBLICATIONS AND PRESENTATIONS

1. Ho E, Marcolongo M. Effect of coupling agents on the local mechanical properties of bioactive composites by nano-indentation technique. Accepted to *Dental Materials* on May 2004.
2. Ho E, Marcolongo M. The in vitro interfacial mechanics of a bioactive composite for mandibular construction. Submitted to *Journal of Oral Implantology* on September 2004.
3. Ho E, Marcolongo M. " Effect of coupling agents on the local mechanical properties of bioactive composites by nano-indentation technique " Poster Presentation in Society of biomaterials Conference, Sydney, Australia and in Drexel University Research Day, Philadelphia, PA, May 2004.
4. Ho E, Marcolongo M. "Effect of coupling agents on the local mechanical properties of bioactive composites by nano-indentation technique" Oral presentation at 30th NE Bioengineering Conference, April 2004. Honored with a travel award.
5. Ho E, Marcolongo M. "The effect of coupling agent on hydroxyapatite / Polymethylmethacrylate composite," Drexel University Research Day, Philadelphia, PA, April 2003.
6. Ho E, Eggleton J, Marcolongo M. "The interfacial bond strength of commercially available titanium screws inserted into hydroxyapatite / Polymethylmethacrylate composite," Proceedings of IEEE 28th Annual Northeast Bioengineering Conference, Philadelphia, PA, April 2002.