
Hsiao-Mei WuE-mail: hmwu@brown.edu

Objective

To pursue Ph.D. degree associated with experimental/computational solid mechanics for nanotechnology, particularly for multiscale and multiphysics..

Education

- Sep. 2008 ~ May 2009 **Master of Science, Mechanics of Solids Program, Division of Engineering, Brown University, RI, USA**
Overall GPA: **3.75**; **8** credits
- Aug. 2005 ~ Dec. 2006 **Master of Science, Structural Engineering & Structural Mechanics, Department of Civil and Environmental Engineering, University of Illinois at Urbana-Champaign, IL, USA**
Overall GPA: **3.07**; **36** credits
- Sep. 2000 ~ Jun. 2004 **Bachelor of Science, Civil Engineering, National Taiwan University (NTU), Taipei, Taiwan**
Overall GPA: **3.63**; **152** credits => Rank = **12/103**
Major GPA: **3.63**; **136** credits Last 60 credits GPA: **3.77**; **60** credits

Research, work and teaching experience

- Oct. 2008 ~ Dec. 2008 **Teaching Assistant in Dept. of East Asian Study, Brown** --- assistant in CHIN 0500 & 0700.
- Feb. 2007 ~ Jul. 2008 **Full-Time Teaching Assistant in Dept. of CE, NTU** --- assistant in undergraduate courses
- Sep. 2007 ~ Jul. 2008 **Maintain and Update the Website for Dept. of CE, NTU**
- Dec. 2004 ~ Jun. 2005 **Professor Leu, Liang-Jenq's Research Assistance in Dept. of CE, NTU**
--- four projects about Earthquake Emergency Plan
- Apr. 18th 2005 **Assist Ambient Vibration Measurement** of Taipei Guandu Bridge in Taipei
- Aug. 2nd 2004 **Participate a Press Conference on Intelligence Ironman II**
--- an intelligence game held for the high school students
- Jul. 2004 ~ Aug. 2004 **Professor Leu, Liang-Jenq's Part-time Research Assistance in Dept. of CE, NTU**
--- integrate information about Sustainable Development of Taipei City
- Dec. 2003 ~ Jun. 2004 **Tutor** --- teach a high school student mathematics
- Jun. 2003 ~ Jul. 2003 **Survey, Li-Ding And Associates Civil & Structural Engineers, Taipei, Taiwan (R.O.C.)**
--- forensic engineering investigation of existing conditions
- Jul. 2002 ~ Feb. 2003 **Research** --- Theory & Experiment of Piezoelectric Transformer based Gyroscope
- Jun. 2001 ~ Feb. 2002 **Tutor** --- teach two elementary students mathematics
- Jun. 2001 ~ Aug. 2001 **Tutor** --- teach a junior high school student chemistry and physics

Awards

- Dec. 2001 **Chen Kuo-Fu Scholarship** --- for students who has a good grade
- Mar. 2003 Paper submitted to the 12th National Taiwan University Engineering Technology Contest with the good prize --- Theory & Experiment of Piezoelectric Transformer based Gyroscope

Publications

- Oct. 04 ~ 06, 2007 Wang, C.-K., Leu, L.-J., and Wu, H.-M. (2007), "Application of FE package ABAQUS for evolutionary structural optimization." *The Twentieth KKCNN Symposium on Civil Engineering*, Jeju, Korea.
- Mar. 2003 Shang, K.-C., Chiu, Y.-C., Chen, Y.-H., and Wu, H.-M. (2003), "Theory and Experiment of Piezoelectric Transformer based Gyroscope." *The 12th National Taiwan University Engineering Technology Contest*, Taipei, Taiwan.

Computer skills

Exercising **ABAQUS** --- when doing research project under Professor Kyung-Suk Kim's supervising.

Executing *LAMMPS* --- through Mechanics of Solids (EN222 in Brown) course term project
Proficient at *FORTRAN 95* --- by self-learning during the class "Method of Finite Elements"
Implement *C and C++* --- object-oriented programming
Expert at *MATLAB & PATRAN* --- by self-learning while doing several homework and projects
Adept at *MicroStation V8* --- a CAD software
Using *DreamWeaver* to maintain and update the Dept. of CE's website
Using *FrontPage* and *CSS* to write the homepages (blog & easy web site)
Windows NT/XP, LINUX system administration

Extracurricular activities

- Apr. 2005 **Member of Badminton Club of NTU CE**
Participate in the group of NTU Badminton Game --- held annually for all NTU students
- Apr. 2001~May 2004 **Women Basketball team of NTU CE student association**
Totally one champion and two runner-ups at Great Civil Cup
--- held annually between all Dept. of CE in Taiwan's colleges
- Feb. & Mar. 2001~04 **Participate NTU Games** --- a school athletic meet and win lots of awards
- Jun. 2002~ Mar. 2003 **Academic Section, NTU CE student association**
- Mar. 2002~Aug. 2002 **Leader of Financial Section of Trilateral Student Activities (TSA2002)**
--- held annually between Dept. of CE, U. of Tokyo, Seoul National U. and NTU
- Mar. 2002~Aug. 2002 **Leader of Financial Section of Civil Camp**
--- held annually by Dept. of CE, NTU for introducing CE and attracting high school students
- May 2002~ Oct. 2002 **Leader of Financial Section of Welcomed Camp**
--- held by Dept. of CE and Dept. of Japanese Language and Literature, NTU for freshmen