Min-Hua Ivy Chen

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Education

University of Michigan, Rackham Graduate School — **Ann Arbor, MI**
PhD Candidate in Materials Science — Expected May 2015

Columbia University, School of Engineering and Applied Sciences — **New York, NY**
B.S. in Materials Science and Engineering, Cum Laude — May 2010

The Lawrenceville School — **Lawrenceville, NJ**
Cum Laude — May 2006

Achievements and Scholarships

Tau Beta Pi Society, Michigan Gamma (Elected 2012)

Dean's List (Fall 2006–Spring 2007, Spring 2008–Fall 2009)

Experience

University of Michigan, Materials Science & Engineering — **Ann Arbor, MI**
Graduate Student Research Assistant, Van der Ven Group — Fall 2010–Present
Leading the development of C++ code for phonon calculations and participating in rewriting of a cluster expansion code previously developed by group members. Previously researched conversion cathode lithium-ion battery materials using first-principles methods.

University of Michigan, Materials Science & Engineering — **Ann Arbor, MI**
Graduate Student Instructor — Winter 2013
Guided students in materials laboratory experiments and graded laboratory reports and assignments.

Columbia University, SEAS — **New York, NY**
Undergraduate Research Assistant, Im Group — Summer 2009–Spring 2010
Assisted group members in studying mixed phase solidification induced by crystallization of Si samples with a continuous-wave laser. Characterized samples using atomic force microscopy, scanning electron microscope, and electron backscatter diffraction.

Columbia University, Department of Mathematics — **New York, NY**
Teaching Assistant — Fall 2009–Spring 2010
Held weekly office hours for Calculus I and II students, in addition to grading weekly assignments.

Columbia University, SEAS — **New York, NY**
Undergraduate Research Assistant, Herman Group — Fall 2007–Spring 2009
Participated in crack formation research involving electrophoretic deposition of CdSe nanoparticles and observed results using video microscopy. Continued to work on self-assembly of binary nanoparticle superlattices and briefly on carbon nanotube hybrid materials.

Dana Farber Cancer Institute, Radiation Oncology Department — **Boston, MA**
Summer Student, D'Andrea Group — Summer 2005
Assisted lab members in finding gene sequences patterns using bioinformatic techniques to search through NCBI databases in order to understand the proteins involved in the Fanconi Anemia DNA Repair System.

Computing Skills

Programming: C/C++, Fortran, Java, MATLAB, Python, LaTeX, Bash, Awk, Gnuplot

Operating Systems: Linux, Mac OS X, Windows

Software: VASP, COMSOL, Thermo-Calc, LabView, Maya, MS Word, PowerPoint, Excel

Languages

Bilingual in English and Mandarin; Proficient in French **(what is less than proficient?! I can barely speak French anymore)**