

Fan Wu

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EDUCATION

Ph.D. Student, Biomedical Engineering

Expected Jun 2018

College of Engineering, University of California, Davis.

Bachelor of Science, Chemical Engineering

Sept. 2010 - June 2012

College of Engineering, University of California, Los Angeles.

Graduated in June 2012 *summa cum laude*. GPA: **3.92**

RESEARCH EXPERIENCES

Research Assistant, Song Li Laboratory, UC Berkeley

Jun 2012 – Aug. 2013

- Investigated the role of Sox10 positive stem cells in angiogenesis
- Isolated and cultured the stem cells from various mouse organs
- Directed differentiation of the stem cells into other cell types
- Developed 3D culture system using collagen gel to model angiogenesis

Undergraduate Researcher, Tatiana Segura Laboratory, UCLA

Jan. 2012 – Jun 2012

- Developed a non-viral siRNA delivery method
- Plated and passaged mouse mesenchymal stem cells
- Synthesized nanoparticles using monomers containing polypeptide chain segments to encapsulate siRNA
- Optimized the encapsulation rate by varying the composition of nanoparticles

TEACHING EXPERIENCES

Mentor, Berkeley Engineers and Mentors (BEAM)

Aug. 2012 – Jan. 2013

- Led science projects weekly in elementary school
- Designed and prepared projects to demonstrate basic scientific theories to elementary school students
- Discussed weekly with other mentors to improve project designs and communication skills

Mentor, Spark Apprenticeship Program

Aug. 2012 – Jan. 2013

- Inspired two 8th grade students toward science and engineering
- Conducted lab tours in Song Li Laboratory, UC Berkeley
- Demonstrated research projects using simple experiments

Math Tutor, Laney College Math Lab

June 2009 – June 2010

- Conducted tutoring sessions weekly to assist local students understand and solve mathematic homework assignments
- Provided group tutoring for lower division mathematic classes

SKILLS

Laboratory: Cell and tissue culture, Immunostaining, Infrared Spectroscopy, Gas Chromatograph, NMR Spectroscopy, UV Spectroscopy, Gel Electrophoresis.

Programming: MATLAB, C++.

Languages: Proficient in Mandarin, both conversation and writing.