

Amanda Khoo

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Academics

Santa Clara University, Santa Clara, CA
Bachelor of Science in Biomedical Engineering
Dean's Scholarship
GPA: 3.440

Skills

Scientific: Microfluidic device design and manufacturing, Mask Aligner, Bacterial (E. Coli) and Mammalian Tissue Culture (HEK 293 cells, Breast Cancer Cells), Assay Optimization, Lab Skills (Western Blot, Large Scale Acrylimade Gels, DNA purification, Gel Electrophoresis, Cell Lysis, Restriction Digest Optimization, Spectrophotometer) Grant Writing, Matlab, Organizational Skills, Communication Skills

Artistic: Traditional Art, Adobe Illustrator, Graphic Design

Other: Guitar, Piano, Violin, Voice, Ultimate Frisbee

Work Experience

Grant Funded Student Researcher, Santa Clara University, CA [Summer 2014, 2015]

- Authored a research proposal to study tRNA mimetics for improving current HIV treatments
- Authored a research proposal to create a new template switching assay
- Awarded funding for full time research for both projects in Summer 2014 and 2015

Student Researcher at Santa Clara University [Fall 2013-present]

- Trained incoming lab members
- Studied HIV reverse transcriptase under Dr. Angel Islas for improving current HIV treatments
- Cultivated scientific communication skills through a weekly presentation during lab meetings

Research Internship Stanford Cardiovascular Institute [Winter 2011-Summer 2012]

- Provided figures for review article detailing differentiation of fibroblasts into endothelial cells for regeneration of heart tissue

- Analyzed data on the effect of shear stress on endothelial cell migration
- Contributions lead to two publications

US Ambassador for the International Summer Academy of Pharmacy (ISAP) [Summer 2015]

- Organized and led SCU bioengineers to Shanghai, China for the ISAP program
- US liaison to Shanghai Jiao Tong University

Engineering Peer Advisor [Fall 2014-present]

- Mentor freshman engineers on classes and acclimating to college
- Lead school-wide events (Engineering Trivia Night!, "Soft Skills Showcase" Talent Show) representing the engineering department

Engineering Tour Guide [Winter 2014-present]

- Market the school of engineering to prospective students

Intern under Vice Mayor of San Jose Madison Nguyen [Summer 2011]

- Honed organizational and people skills to help plan annual San Jose's "National Night Out" Event, a community based event to deter crime in cities

Published Works

Volz, K. S., Miljan, E., Khoo, A., & Cooke, J. P. (2012). *Development of pluripotent stem cells for vascular therapy*. Vascular Pharmacology, 56(5-6), 288-296. <http://doi.org/10.1016/j.vph.2012.02.010>

Ostrowski, M. A., Huang, N. F., Walker, T. W., Verwijlen, T., Poplawski, C., Khoo, A. S., ... Dunn, A. R. (2014). *Microvascular Endothelial Cells Migrate Upstream and Align Against the Shear Stress Field Created by Impinging Flow*. Biophysical Journal, 106(2), 366-374. <http://doi.org/10.1016/j.bpj.2013.11.4502>