Stephanie Lace Chang

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Skills

2D Design	Digital Paint (Procreate, Krita), and Pencil
3D Modeling	Maya, SolidWorks, OnShape, NX, and AutoCAD
Software	Linux, Python, C, Git, Google Suite, and Microsoft Office Suite
Prototyping	3D Printing (PolyJet, Fused Deposition Modeling, powder bed and inkjet), Laser Cutting, Laser Scanning, CNC Milling, and Foamcore

Familiar with multitasking in a fast-paced environment, resolving issues between peers from different disciplines, adapting work strategy to account for unforeseen circumstances, and the animation pipeline

Work Experience

Cardiovascular Researcher/Lab Manager, Stanford University School of Medicine — Jan 2016 – Aug 2016

- As the acting lab manager, coordinated with postdocs, material suppliers, lab equipment vendors, and Environmental Health and Safety inspectors to support five cardiology projects in Dr. Mark Mercola's lab
- Regulated the spending of lab grant funds
- Drafted floor plan for and assisted movers with the lab's move to Stanford's newly constructed Technology and Innovation Park
- Maintained liquid nitrogen supply for archived cells stored at -80°C
- Fabricated epicardial collagen patches for clinical studies using mice and swine
- Conducted quality control tests to ensure patches were robust enough for transplantation

Genetic Engineering Lab Technician, Sanford Burnham Prebys Medical Discovery Institute — Aug 2014 – Dec 2015

- Collaborated with PI and postdoc mentors to identify target microRNA candidates for a novel heart disease drug screening tool
- Developed a set of mRNA biosensors that, when transfected into cells, accurately monitors miRNA expression levels in hypertrophic cells after 24 hours of applied stress
- Assisted lab manager with restocking lab inventory and maintenance of lab equipment
- Performed wet lab procedures and data analysis for other microbiology projects in lab

Cost-effective HIV Monitoring Device Co-Lead, Engineering World Health UCSD Chapter — Oct 2011 – Oct 2015

- Project awarded 2nd place for submission to the 2012 Engineering World Health National Design Competition
- Co-lead 24 engineers in designing a semi-automated anti-retroviral drug resistance screening system for Maputo Central Hospital in Mozambique
- Achieved goal of building a viral load monitoring system that costs less than $1,000: resulting system costs less than $500
- Lead 8-membered interdisciplinary team that designed and manufactured the pneumatic RNA extraction component
- Secured more than $16,000 of funding through grants and competitions
- Organized health and safety training, ordered research materials, set up rooms before meetings, and cleaned up lab benches after work sessions

Relevant Projects

Production-ready 3D Models in Maya — July 2019 – Sept 2019

- Under an art director, modeled a submersible and a human head from concept art sketches
- Under an art director, modeled a toy train coin bank using a physical object as reference

Education

AnimSchool
3D Modeling — Apr 2019 – Sept 2019

The Animation Collaborative
Character Design — Jan 2019 – July 2019

Northwestern University
Master of Science, Robotics | GPA **3.96**/4.0 — Dec 2017

University of California, San Diego
Bachelor of Science, Bioengineering: Biotechnology | Major GPA **3.74**/4.0 — June 2015