

SIMON NG

Los Angeles, CA • +1 414-882-9172 • ngsimon@ucla.edu • linkedin.com/in/simon-a-ng • github.com/S-Ng

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES – Bachelor of Science, Bioengineering

Expected 6/2021

Cumulative GPA: 3.93

Relevant Coursework: Bioreactors, Bioseparations, Biocompatibility, Data-Driven Modeling, Microcontrollers

Activities: Biomedical Engineering Society, Backpacking Club, Old-Time String Band, Community Garden

RESEARCH EXPERIENCE

DI CARLO LAB – Microfluidics Research Assistant

9/2018 - Present

- Conducted experiments to encapsulate cells or drug molecules in hydrogel droplets for biotech and clinical applications.
- Created publication-quality figures summarizing project progress and prepared periodic updates for lab meetings.

KHADEMHOSEINI LAB – Tissue Engineering Research Assistant

1/2018 - 9/2018

- Optimized bioprinting protocols for 2 bioprinters and developed printed vascularization techniques for tissue engineering.
- Taught 24 lab members bioprinting techniques and provided bioprinting advice for 6 projects. [publication in progress]

INTERNSHIP AND WORK EXPERIENCE

RESEARCH EXPERIENCE FOR UNDERGRADUATES – Micro-Encapsulations Experiment Lead

6/2019 - 8/2019

- Designed wet lab experiment equipment and protocols for team of 6 in math internship program. [publication in progress]
- Mentored summer high school student in research process and wrote letter of recommendation for college admissions.

UCLA HOUSING AND HOSPITALITY – Assistant Sustainability Manager

6/2018 - 9/2018

- Coded 7 Excel VBA macros to automate tracking of 22 buildings' utilities and \$21 million of annual food expenditures.

PROJECT EXPERIENCE

BIOMEDICAL ENGINEERING SOCIETY – Automated Ethanol Sprayer Project Manager

9/2019 - Present

- Recruited and directed timeline-driven, multi-disciplinary team to develop efficient sterilization technology for research.
- Transitioned project goals from physical prototype to technical report to produce high-quality results despite COVID-19.

BIOMEDICAL ENGINEERING SOCIETY – Automated Pill Dispenser Team Member

10/2018 - 6/2019

- Took initiative to organize meeting times and agendas and set goals, resulting in promotion to project manager.
- Integrated Arduino, hardware, and custom 3D-printed parts into functional prototype and presented summary poster.

EAGLE SCOUT PROJECT – Ecological Survey Leader

6/2016 - 6/2017

- Trained and supervised 24 volunteers on 3 outings to empirically survey flora of 145-acre nature preserve for biodiversity.

SKILLS

Laboratory: Proficient at cell culture, microfluidics, confocal microscopy, bioprinting, rheometry, clean room, 3D printing

Software: Proficient at CAD, Arduino, COMSOL, LaTeX, Microsoft Suite, Python, C++, MATLAB, VBA | Novice at Simulink, ProII

Language: Conversational in Spanish, fluent in English, learning Swedish

AWARDS

BSA Eagle Scout – UCLA Student Sustainability Leader – UCLA Dean's Honor List – GE-Reagan Foundation Scholar
High School Valedictorian – National Merit Scholar – Outstanding Research Poster, WinSTEP SEPA Conference