

SIMON NG

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EDUCATION

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

Expected June 2021

Cumulative GPA: 3.93

Activities: Di Carlo Lab, Bruin Home Solutions, Sustainable Living Learning Community, Bruin Spacecraft Group

RESEARCH

BIOENGINEERING LABORATORY – Khademhosseini Lab Research Assistant

January 2018 - September 2018

- Prepared and presented graduate-level research presentations summarizing project results and impacts.
- Optimized bioprinting protocols for 2 bioprinters and developed printed vascularization techniques for tissue engineering.
- Taught 24 lab members bioprinting techniques and provided technical advice for 6 bioprinting projects.

ECOLOGICAL SURVEY – Eagle Scout Project

June 2016 - June 2017

- Trained and supervised groups of 15 volunteers on 3 outings to survey a 145-acre nature preserve.
- Analyzed and summarized data from 98 plant species in a report designed to help protect the preserve's biodiversity.
- Presented PowerPoint of results to over 60 preserve members at the annual member's meeting and answered questions.

PROJECTS

NASA MICRO-G NEXT – Microgravity Under-Ice Sampling Device

September 2017 - November 2017

- Designed electrothermal ice drill to collect ice cores in microgravity to search icy planets and moons for biomolecules.
- Wrote technical proposal in LaTeX and designed multilayer CAD models, working collaboratively in a team of 4.
- Planned outreach event with children to “engineer” microgravity ice cream sampling devices.

COMPOSTING AND RECYCLING INITIATIVE – Green Team Leader

July 2016 - June 2017

- Spearheaded successful student initiative to implement high school composting and recycling programs.
- Established the Green Team to run student engagement campaigns and expand sustainable high school endeavors.

WORK EXPERIENCE

UCLA HOUSING AND HOSPITALITY – Assistant Sustainability Manager

June 2018 - September 2018

- Developed 7 Excel VBA macros to automate tracking of 22 buildings' utilities and \$21 million of annual food expenditures.
- Coordinated over 20 student groups and local organizations to table at UCLA's beginning of the year sustainability fair.

UCLA RESIDENTIAL LIFE – Community Development Intern, Sustainable Living

September 2017 - June 2018

- Independently managed \$1300 budget for over 25 sustainability-related events both on and off the UCLA campus.
- Guided 4 student teams planning and running educational activities for UCLA's annual energy conservation campaign.

THE FELLOWSHIP OF THE STRINGS – Founder and Leader

June 2011 - August 2017

- Managed 9-member fiddle group, which performed over 70 times, frequently for local nonprofit's benefit events.

SKILLS

- **Software:** Proficient at AutoCAD, MATLAB, Excel VBA, LaTeX, Microsoft Word, and PowerPoint
- **Laboratory:** Skilled at bioprinting, cell culture, and microfluidics; proficient in microscopy and machining
- **Language:** Conversational in Spanish and fluent in English

AWARDS

UCLA Student Sustainability Leadership – LEED Green Associate – Eagle Scout – High School Valedictorian – Outstanding Research Poster, WinSTEP SEPA Conference – GE-Reagan Foundation Scholar – National Merit Scholar