

Collin Kennedy

Biochemistry • University of California, Los Angeles

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Education **University of California, Los Angeles** **Los Angeles, CA**
College of Letters and Sciences – Biochemistry **September 2014 – Present**

- Coursework: Biochemistry; General, Organic, & Laboratory Chemistry; Genetics, Macro/Molecular Biology & Laboratory Life Sciences; Physics; Calculus; Statistics; Computer Science

Work Experience **Howard Hughes Medical Institute** **October 2017 – Present**
Undergraduate Researcher **Los Angeles, CA**

- Dr. Ozcan Research Group: developing low-cost cellphone-based multiplexed imaging devices for various biomedical applications; in particular, exosome antibody capture, imaging, and characterization through surface biomarker recognition
- Developing Android app on Java to capture cellphone image and quantify number of captured exosomes in sample through fluorescent markers
- Application of different surface functionalization techniques, fluorescent microscopy, and validation of experimental results through numerical and software simulations

Roche Sequencing Solutions **Santa Clara, CA**
Biochip Interface Engineering Intern **June 2017 – September 2017**

- Conducted experiments on nanopore-based sequencing technology with semiconductor integrated circuits and NanoTag chemistry; statistical process control and data analysis of sequencer's developmental modifications on Python and JMP script
- Material biocompatibility testing: bioabsorption, leachability, and biopoisoning effects on DNA polymerase functionality and lipid bilayer formation, thinning, and electroporation

UCLA Orthopedic Hospital Research Center **Los Angeles, CA**
Research Assistant **September 2016 – June 2017**

- Osteoblast based in vitro model: preparing reagent solutions; isolating mouse osteoblasts; cell counting, plating, and feeding; fluorescent staining and plate reading; and microscopy
- Operation of an iridium sputter coater and scanning electron microscope with associated energy dispersive X-ray spectroscopy systems

Gray G– Farm and Ranch **Shidler, OK**
Ranch Manager **June 2015 – September 2015**

- Cared for more than 300 head of cattle, operated diagnostic equipment such as radiographic and ultrasound equipment, vaccinated animals, and administered medications orally and intravenously
- Planted, fertilized, and harvested over 3,000 acres of hard red winter wheat
- Built fence, cut, baled, hauled, and distributed over 10,000 bales of hay to cattle

Leadership **Sigma Chi Fraternity** **Los Angeles, CA**
Treasurer **September 2016 – June 2017**

- Oversaw planning, procurement, and investment of an \$800,000 budget for the organization's infrastructure and events
- Coordinated individual payment plans, developed cost management, and maintained alumni correspondence and relations

Additional **Skills:** Java, Android Studio, MySQL, Eclipse, C++, Python, Linux, JMP, Github, Image J, Stata, Excel
Activities: Sigma Chi Fraternity, Biochemase, UCLA Disabilities, Pathways UCLA
Interests: Piano, Running, Backpacking, Snowboarding, *Scale, Incognito, Market Wizards*
