

# Christopher Li Chen

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## EDUCATION

University of California at Berkeley, College of Chemistry  
B.S. in Chemical Biology

May 2017

UC Berkeley Extension

Fall 2021

## WORK EXPERIENCE

TRex Bio Jan 2021 – Present

*Research Associate* South San Francisco, CA

- Work with flow cytometry, a high-throughput method to read out cell functional assays, generating large datasets
- Use of FlowJo software to analyze flow cytometry data by gating cell populations and generating overlay histograms and applying algorithms to produce results
- Run benchtop assays including ELISA, DNA and RNA analysis, and generate Excel spreadsheets to analyze and present data
- Analyze and present data using Graphpad Prism—a software for graphing various types of data plots and performing statistical testing including ANOVA analysis
- Performed CRISPR knock-out of primary lymphocytes and confirm genome edit by ICE analysis to analyze indel percentage.

Wyzant Dec 2020 – Present

*Tutor* Online

- Taught high school and college students in various subjects including Calculus, Chemistry, and MCAT test prep.
- Prepared lessons to teach concepts from the ground up to students from a variety of backgrounds and knowledge.
- Helped students with their homework and quizzes to correct their mistakes and fill their gaps in understanding
- Prepared students with game plans and test taking techniques for SAT and MCAT exams.

Joseph C. Wu Lab at Stanford Cardiovascular Institute Feb 2018 – Dec 2020

*Life Science Research Professional* Stanford, CA

- Worked with induced pluripotent stem cells and performed differentiation to multiple cell types e.g. cardiomyocytes, endothelial cells, fibroblasts.
- Maintained cell lines and performed drug treatments.
- Conducted experiments in vitro and extracted protein and RNA for Western blot and RT-qPCR.
- Prepared samples for RNA and single cell sequencing.
- Analyzed, collected, and presented functional cell assay data in group meetings

Dr. John Chan Lymphoma Research Lab at City of Hope National Medical Center May – Aug 2015  
**Research Assistant** Duarte, CA

- Worked to optimize protocol for immunofluorescent staining of single cell suspensions from paraffin tissue for sorting by flow cytometry.
- Presented work and results at poster session.

EPS 103 – Introduction to Marine Geochemistry at UC Berkeley Jan – May 2017  
**Teaching Aid** Berkeley, CA

- Lead my own discussion section and walked through concepts and practice problems.
- Created homework assignments, wrote up exam solutions, and graded students' assignments and exams.
- Worked with professor and Graduate Student Instructor to communicate course material.
- Coordinated class trip to research site to take measurements of temperature and oxygen levels of groundwater to demonstrate and teach class material.

## SCHOOL LEADERSHIP INVOLVEMENT

Academic Quiz Bowl Aug 2014 – May 2016

### **Volunteer Event Coordinator**

- Led student meetings before big events and helped to recruit new members.
- Helped run events on competition day. This included creating customized agendas for participants communicating with other school coordinators and building staff.
- Managed competition rooms and provided documents and support

California Lightweight Rowing Crew Aug 2013 – May 2016

### **Safety Officer**

- Team elected position, looked out for the safety of the team on the water for morning practice
- Kept boat lights and motorboat rip cords stocked and working
- Communicated with Student Union to keep the team up-to-date on safety policies and communications

## PUBLICATIONS

1. Tian L, Oikonomopoulos A, Liu C, Kitani T, Shrestha R, Chen CL, Ong SG, Smeets M, Karakikes I, Sayed N, Wu JC. Molecular Signatures of Beneficial Class Effects of Statins on Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. *Circulation*. 2020 Apr 7;141(14):1208-1210. doi: 10.1161/CIRCULATIONAHA.118.035906. Epub 2020 Apr 6. PMID: 32250699; PMCID: PMC7170011.
2. Liu C, Ruan H, Himmati F, Zhao MT, Chen C, Makar M, Chen IY, Sallam K, Mocarski ES, Sayed D, Sayed N. HIF1 $\alpha$  Regulates Early Metabolic Changes due to Activation of Innate Immunity in Nuclear Reprogramming. *Stem Cell Reports*. 2020 Feb 11;14(2):192-200. doi: 10.1016/j.stemcr.2020.01.006. Epub 2020 Feb 11. PMID: 32048999; PMCID: PMC7013248.
3. Jiang N, Chen C, Gong Q, Shields K, Li Y, Chen Y, Song J, McKeithan TW, Chan WC. Flow cytometric sorting coupled with exon capture sequencing identifies somatic mutations in archival lymphoma tissues. *Lab Invest*. 2017 Nov;97(11):1364-1374. doi: 10.1038/labinvest.2017.73. Epub 2017 Aug 7. PMID: 28783138.