

JAMIN LIU

(857) 399 6023 ◊ jaminliu@berkeley.edu ◊ jaminliu.com

EDUCATION

UC Berkeley - UCSF

Joint Graduate Program in Bioengineering
Berkeley Fellowship for Graduate Studies

Berkeley, CA; San Francisco, CA

2017 - Present

Massachusetts Institute of Technology

Bachelor of Science in Biological Engineering

Member of the Tau Beta Pi Engineering Honor Society, Massachusetts Beta Chapter, Awarded the Znaty-Merck Prize for Undergraduate (3 awardees/year) and the Jeffrey L. Pressman Award for Political Science (1 winner/year)

Cambridge, MA

Class of 2015

RESEARCH EXPERIENCE

PhD Candidate - DeRisi Lab at UCSF

Advisor: Prof Joseph L DeRisi

May 2018 - Present

Mission Bay, San Francisco, CA

- Conducted a whole-genome CRISPR knockout screen during viral infection to identify critical viral host factors.
- Designed and constructed syringe pump module for producing lysate for understanding Plasmodium falciparum protein translation processes.

Research Associate - Hung Lab at the Broad Institute

Advisor: Dr Deborah T Hung · Supervisor: Dr Roby Bhattacharyya

August 2015 - August 2017

Cambridge, MA

- Developed an RNA-based diagnostics platform for pathogen identification and antibiotic susceptibility testing.
- Characterized and validated transcriptional signatures of common hospital-borne pathogens following exposure to multiple classes of antibiotics using RNASeq and Nanostring.

EndoSpan - Summer Intern

Research & Development

May 2015 - August 2015

Herzlia, ISRAEL

- Prepared literature reviews on current standards of aortic arch repair using stent graft systems and summarized comparison results with proprietary stent designs.
- Summarized and safety requirements and results of fatigue and durability testing of proprietary stents for submission towards the FDA Medical Device Regulation application.

PUBLICATIONS (OUT OF 11)

ORCID: 0000-0001-6386-3709

Liu J, Knopp KA, Rackaityte E, Wang CY, Laurie MT, Sunshine S, Puschnik AS, DeRisi JL. "Human sialomucin CD164 is an essential entry factor for lymphocytic choriomeningitis virus." *Submitted to mBio*

Liu J, Laurie MT, Rubio L, Vazquez SE, Sunshine S, Mitchell AM, Hapte-Selassie M, Mann SA, Pilarowski G, Black D, Marquez C, Rojas S, Lionakis MS, Petersen M, Whitman JD, Jain V, Anderson M, Havlir D, DeRisi J. "SARS-CoV-2 transmission dynamics and immune responses in a household of vaccinated persons." *Clinical Infectious Diseases* ciac029 (2022)

OUTREACH & SERVICE

CLIAhub - SARS-CoV-2 testing lab at the Chan Zuckerberg Biohub

Technical Lead

March 2020 - August 2020

San Francisco, CA

- Processed over 150,000 SARS-CoV-2 tests across California, including many high-risk, low-access communities.
- Helped establish the CLIAhub testing lab by programming BRAVO liquid handlers and training new volunteers.
- Led one of four rotating shifts from March 2020-August 2020 for guaranteed 48-hour test result turnover.

Spokes America

Treasurer & Instructor

January 2014 - August 2014

San Francisco, CA to Washington D.C.

- Coached over 200 students, teachers, and community members at 10 teaching stops across the US in exploring STEM topics through guided, hands-on activities designed to present a new perspective on education.
- Fundraised and balanced a \$40 000 budget for a 7 member cross-country cycling trip lasting over 60 days.
- Awarded the Public Service Leadership Council Grant, PKG Expedition Grant Finalist, among others.

SKILLS AND PROFICIENCIES

Lab Proficiencies

Mammalian & Bacterial Cell Culture, Flow Cytometry, Next-Generation Sequencing, Confocal Microscopy, Microfluidic Device Design & Fabrication
Python, R, MATLAB, COMSOL, Arduino, Solidworks, L^AT_EX

Computer Skills & Languages Language Proficiencies

English (native), Mandarin (native)