

Michael Margolis

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EDUCATION

University of California, Los Angeles (UCLA)

Expected June 2019

Bachelor of Science, Computational and Systems Biology

Coursework includes: Biology, Computer Science, Advanced Mathematics, Physics, Organic Chemistry

LAB TECHNIQUES / SKILLS

- Plasmid construction
- Plasmid preparation
- qPCR
- rtPCR
- Western blotting
- Cell culture

RELEVANT EXPERIENCE

UNIVERSITY OF CALIFORNIA, LOS ANGELES

Los Angeles, CA

Laboratory Intern, Dr. Dino Di Carlo Lab

February 2015 –

- Worked on a project utilizing novel digital ELISA and LAMP techniques to create a mobile diagnostic assay for viral disease.
- Built a MatLab application and a Python program from scratch to automate the detection, measurement, and normalization of well intensities on large digital ELISA plates.
- Conceptualizing and developing a Python program to characterize stem cell growth in MAP gels, using images taken both in vitro and in vivo.

VERTEX PHARMACEUTICALS

La Jolla, CA

Computer Science Intern, Mentored by Jon Christopher

June 2016 – August 2016

- Developed programs in Python to automate the process of registering compound plates to a database for use in third-party software.
- Assembled a web page in ExtJS to provide a unified site for scientists to view and organize their data.
- Modified existing third-party Java API implementation and constructed a user-run Python script to allow vastly richer data visualization for scientists.

SANFORD-BURNHAM MEDICAL RESEARCH INSTITUTE

La Jolla, CA

Laboratory Intern, Fotedar and Puri Labs

Summers 2012, 2013, 2014

- Worked on a project involving cell senescence.
- Prepared cell extracts and analyzed proteins involved in senescence pathway using Western blotting.
- Performed qPCR and rtPCR to determine mRNA levels of cytokines in senescent cells.
- Collaborated with Post-Doc mentor and facilitated inter-lab communication and research.

COMPUTATIONAL SKILLS

- **Programming languages:** Java, Python, HTML, CSS, JavaScript, ExtJS, Matlab.
- **Application Software:** Excel, Mathematica, Adobe Photoshop, Microsoft Word, PowerPoint.

HONORS AND AWARDS

UC Regents Scholar, UCLA

National Merit Finalist

First Runner Up to the Grand Prize and Best Poster (iGEM 2014)

Best Experimental Measurement System (iGEM 2013)