

# Curriculum Vitae

## Daniel Joseph Gomez

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### Objective

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My career interests are in the applications cellular biology of fending off emerging pathogens, solving diseases with molecular, biophysical, and biotechnical techniques. I will gain the ins and outs of the Omics through academia research. I can present data (present/poster) as it critical to the research process. My works include MDs, PhDs fellows, and graduate students, this gave me the insight to the work ethic necessary for a career in medicinal chemistry. Technical writing has always pleased me because I was able to tell intricate biological stories. I would like to describe molecular mechanisms, create molecular inventions, and include the macromolecules that have elegant structures and functional catalyst that point to relevant detections (infections, diseases, disorders, etc), biomarkers, and extract the pathological implications. After obtaining my BS degree, I will be applying for doctoral candidacy.

### Education

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**Bachelor of Science.** University of Florida. Gainesville, FL *Anticipated 2018-21*  
Department of Microbiology and Cell Science, UF/IFAS-CALS  
Microbiology and Cell Science

John A. Burns School of Medicine, Johns Hopkins University *2012-2013*  
Department of Tropical Medicine, Medical Microbiology, and Pharmacology  
*Relevant Graduate Coursework*

- Intro to the Neurosciences
- Translational Research in NeuroAIDS and Mental Health (TR-NAMH)

### Professional Experience

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**Scientific Ambassador.** UF. Gainesville, FL *Dec 2018 - Present*

- Raise awareness of Agricultural and Life Science
- The Microbiome
- General Virology
- Molecular Biology
- Biochemistry

**Research and Development Coordinator.** dosist. San Francisco, CA Dec 2015-Feb 2016

- CRO selection and negotiation
- Support chief officers and develop market strategies

**Research Technician.** John A. Burns School of Medicine (JABSOM), Honolulu, HI. Aug 2012-Dec 2013  
Department of Tropical Medicine, Medical Microbiology, and Pharmacology

- Developing a drug delivery system for HIV-1 Disease in the BBB.
- FACS, Mouse handling, qPCR, NanoDrop
- Autoclave, Vortex, Centrifuge, cell-culture

**Research Associate.** JABSOM Tropical Medicine, Medical Microbiology, and Pharmacology.  
Honolulu, HI Jan 2012 - June 2013

- Developing an immunohistochemistry (IHC) system for JCPyV and HIV-1 Disease.
- PI- Dr. Shiramizu, Dr. Nerurkar (~32hrs/week).

**Biology Assistant.** JABSOM Department of Tropical Medicine, Medical Microbiology, and Pharmacology.  
Honolulu, HI 2012-13

- Develop blood-brain barrier for permeability assays
- Flow Cytometry (FACS)
- qPCR

## Research Experience

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**Undergraduate Research Associate.** University of Florida. Gainesville, FL. 2020-2021

- Wong Lab
- Triplett (The Microbiome)

**Research and Development Coordinator.** dosist. San Francisco, CA Dec 2015-Feb 2016

- Developing disposable bioengineered micro dosed vape pens as deliverables for market.
- Research Human trials (~40hrs/week).
- Dosist pens (relief, bliss, clam, sleep, passion, arousal)

**Research Assistant.** UCSD School of Medicine Division of Neuroanesthesia. Jan 2014-Jun 2014  
La Jolla, CA

- Developing a drug delivery system for Neurocardiological Disease protection.
- Caveolin scaffolding life support for heart organ
- PI- Dr. Patel (~5-15hrs/week).

**Research Associate.** JABSOM Tropical Medicine, Medical Microbiology, and Pharmacology.  
Honolulu, HI Jan 2014-Jun 2014

- Developing an immunohistochemistry system for JCPyV and HIV-1 Disease.
- Immunocytochemistry procedures in kidney and brain
- PI- Dr. Nerurkar (~40hrs/week).

**Research Associate.** John A. Burns School of Medicine (JABSOM), Honolulu, HI. Aug 2012-July 2013

- Developing a drug delivery system for HIV-1 Disease in the BBB.
- PI- Dr. Shiramizu (40hrs/week).

## Research Interests

Chemical Biology  
Immunology  
Drug metabolism

Molecular Biology  
Translational Research  
Computational Biology

Neuro-oncology  
Neuroscience  
Emerging Pathogens

## Lab skills

Cell culture (Microbial)  
Mouse handling  
Bioinformatics  
Gel Electrophoresis  
Drug encapsulation

DNA synthesis  
Flow cytometry (*in vitro*)  
Microscopy  
Python  
DNA/RNA extraction

PCR/qPCR  
R  
NGS Sequencing  
Western blots  
Toxicity assays

Excellent computer and analytical skills using a large variety of programs and software, excellent public presentation skills

## Publications

*Anticipated 2020*

## Awards and Honors

**2020 DiVERGE Program.** Scripps Research. Jupiter, FL

Jan 2020

- Science identity and the culture of science
- Crafting applications, Research Writing, Constructing a compelling self-introduction
- Internships and Ongoing research
- The history and background of Scripps Research

**Undergraduate Research Opportunities Program (UROP) Award**

2013

- \$5000 award.

## Teaching Experience

**Tutor.** 10hrs/week

2012

- Organic Chemistry Tutor

**University Tutor.** 15hrs/week

2011

- CHEM161 General Chemistry (Dr. Hemscheidt)

**Undergraduate Teaching Assistant.** 20hrs/week

2011

- CHEM161 General Chemistry (Dr. Talisman)
- CHEM161L General Chemistry Lab I (Dr. Talisman)

## Medical and Clinical Experience

<b>Volunteer (Shadowing)</b>	2012
<ul style="list-style-type: none"> <li>Observed Dr. Slavin, pediatrics and clinical geneticist, in the Medical Genetics section, City of Hope (9 hours/month)</li> </ul>	

<b>Research Assistant.</b> Hawaii Center for AIDS. Honolulu, HI	2012
John A. Burns School of Medicine	
- Conduct clinical and translational research. Blood in canonical, Human patient collection, DNA isolation	

## Certifications

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IRB Training  
March 2019

Life Sciences Responsible Conduct of Research Course (RCR)  
March 2019

Medical School Pathology – Certificate of Achievement  
June 2018

DNA Research with Biopython  
Nov 2017

Data Science and Machine Learning Bootcamp with R  
Oct 2017

Google's Go (golang) Programming Language  
Oct 2017

Python for Data Science and Machine Learning  
Sep 2017

## Community Service

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<b>Market Research.</b> Berkeley Humane	2014
<ul style="list-style-type: none"> <li>Animal Welfare</li> </ul>	

<b>Community Wellness Advocate.</b> American Cancer Society	2014
<ul style="list-style-type: none"> <li>Social Services</li> </ul>	

## International Experience

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<b>Violinist.</b> Orchestra	Summer 2006
<ul style="list-style-type: none"> <li>France, Belgium</li> </ul>	

<b>Teacher.</b> English Language	Summer 2005
<ul style="list-style-type: none"> <li>Thailand, Laos</li> </ul>	

## Technical Skills

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Computer proficiency (MS office, Stats, SAS, R), 7 years of lab and research experience, technical writing, strong organizational and leadership skills, project management, Organizational leadership

### **Professional Organization Membership**

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American Society for Microbiology	2020
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The American Society for Cell Biology (ASCB)	2019
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The Journal of Experimental Biology	2014
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Transforming the Future through Science

Federation of American Societies for Experimental Biology

The Journal of Immunology (AAI)	2013
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AAI Centennial

A Century of Excellence: Celebrating 100 Years of The Journal of Immunology

The American Association of Immunologists, Inc.

### **Hobbies**

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Designing, Drafting, Drawing, Stagecraft, Lighting and Sound, Violin Music, Travelling, Photography, Cooking, Health and Fitness