Curriculum Vitae

Daniel Joseph Gomez

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Objective

My career interests are in the applications cellular biology of fending off emerging pathogens, solving diseases with molecular and biotechnical techniques. I will gain the ins and outs of the Omics through research and academia. I can present data (talk/poster) as it is a big part of the research process. Having worked alongside MDs, PhDs and other fellows, this gave me the insight to the work ethic necessary for a career in medicinal science. Technical writing has always pleased me because I was able to tell and read intricate biological stories. I would like to describe molecular mechanisms, create molecular inventions, and include the structures and functions of elegant peptides and functional ribozymes that point to immunodetections (infections, diseases, disorders, etc), biomarkers, and extract the pathological implications. After obtaining my BS degree, I'll set myself up to become a doctoral student.

Education

Bachelor of Science. University of Florida. Gainesville, FL 2018-21
Department of Microbiology and Cell Science, IFAS-CALS
MCB - Medical Microbiology and Bacteriology - MCS

Relevant Graduate Coursework

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

John A. Burns School of Medicine, Johns Hopkins University 2012 - 13
Department of Tropical Medicine, Medical Microbiology, and Pharmacology
NIP – Neuroimmune pharmacology – BSB

Professional Experience

Student Assistant. Las Positas College. Livermore, CA. Jan 2020 - Present
Career & Transfer Center. Disability Center.

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

Scientific Ambassador. UF. Gainesville, FL Dec 2018 - Feb 2020

- Raise awareness of Agricultural and Life Science
- Immunology, Biology, Microbiology
- Molecular Biology
- Astrobiology

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

- Developing deliverables for market.
- PI- Dr. Miller (~40hrs/week).
- Did not go-through with IRB protocols, products did not make it to human trials

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. Nerurkar (~40hrs/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

DiVERGE. 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

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

Epidemiology	Nanotechnology	Oncology
Bioinformatics	Translational Research	Neuroscience
Drug metabolism	Computational Biology	Emerging Pathogens

Lab skills

Cell culture (*in vivo, in vitro*)	Nanoparticle synthesis	PCR/qPCR
Mouse handling (anesthesia, *ex vivo*)	Flow cytometry (*in vitro*)	R programming
Bioinformatics	Microscopy	Sequencing
Gel Electrophoresis	Python programming	Western blots
Drug encapsulation	DNA/RNA extraction	Toxicity assays

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

Publications

Anticipated 2021

Awards and Honors

Undergraduate Research Opportunities Program (UROP) Award 2013

- $5000 award.

Teaching Experience

Undergraduate Teaching Assistant. 20hrs/week 2011

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

University Tutor. 15hrs/week 2011

- CHEM161 General Chemistry (Dr. Hemscheidt)

Tutor. 10hrs/week 2012

- Organic Chemistry Tutor

Medical and Clinical Experience

Volunteer (Shadowing) 2012

- Observed Dr. Slavin, pediatrics and clinical geneticist, in the Medical Genetics section, City of Hope (9 hours/month)

Certifications

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

Market Research. Berkeley Humane 2014
- Animal Welfare

Community Wellness Advocate. American Cancer Society 2014
- Social Services

International Experience

Teacher. English Language Summer 2005
- Thailand, Laos

Violinist. Orchestra Summer 2006
- France, Belgium

Technical Skills

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

The American Society for Cell Biology (ASCB) 2019

American Society for Microbiology 2019
University of Florida Student Chapter
(ASM Gators)

The Journal of Experimental Biology 2014
Transforming the Future through Science
Federation of American Societies for Experimental Biology

The Journal of Immunology (AAI) 2013

AAI Centennial
A Century of Excellence: Celebrating 100 Years of The Journal of Immunology
The American Association of Immunologists, Inc.

Hobbies

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