

# 2017 Princeton University SURP MOL/QCB Visiting Scholars



## Michael Fernandez '19

East Los Angeles College/UC Berkeley

Major: Bioengineering

Project Title: Using Experimental Evolution to Understand the Contribution of the Microbiome to Host Metabolism in *Drosophila Melanogaster*

Princeton Advisor: Dr. Julien Ayroles



## Paola Figueroa-Delgado '18

University of Puerto Rico, Rio Piedras

Major: Biology

Project Title: The Role of Canonical Wnt Pathway In Regulating Neuron Morphology

Princeton Advisor: Dr. Elizabeth R. Gavis



## **Courtni Foster '19**

**Howard University**

**Major: Biology**

**Project Title: The Role of Non-Coding Single Nucleotide Variants in Autism Spectrum Disorder**

**Project Advisors: Dr. Michael Levine  
Dr. Olga G. Troyanskaya**



## **Kristian Harris '19**

**Howard University**

**Major: Biology**

**Project Title: Identifying Genes Involved in the Regulation of the PQS Operon in *Pseudomonas Aeruginosa***

**Princeton Advisor: Dr. Zemer Gitai**



## **Rukia Henry '18**

**Howard University**

**Major: Biology**

**Project Title: Establishing a Model to Study the Entry and Transport of Pseudorabies Virus Infection in Central Nervous System Neurons**

**Princeton Advisor: Dr. Lynn W. Enquist**

***Awards post SURP experience:***

**\*Poster Award winner for Outstanding Presentation in Neuroscience, 2017 ABRCMS**

**\*First prize for Oral Presentation in Biological Sciences category, 2017 Access Minority Annual Research Conference.**



## **I'ran James '18**

**Elizabeth City State University**

**Major: Computer Science**

**Project Title: Hunting for SNPs: The Genomic Distribution of False Positive and Negative Variant Cells**

**Princeton Advisor: Dr. Peter Andolfatto**



## **Benjamin Juarez '18**

**University of California, Merced**

**Major: Human Biology**

**Project Title: Investigating *Vibrio cholerae*:  
Analysis of Curvature Proteins**

**Princeton Advisor: Dr. Zemer Gitai**

***Awards post SURP experience:***

**\*Poster Award winner for Outstanding Presentation in Life Sciences, 2017  
SACNAS.**



## **Luisa Mercado '18**

**Webster University**

**Major: Computational Biology**

**Project Title: Identifying Biomarkers of Aging in  
Human Blood**

**Princeton Advisor: Dr. Coleen T. Murphy**



## **Dennis Perez-Lopez '18**

**University of Puerto Rico, Mayagüez**

**Major: Industrial Microbiology**

**Project Title: Optimization of Lysis Conditions for Quantitative Proteomics in *Escherichia coli***

**Princeton Advisor: Dr. Martin H. Wühr**



## **Gabriel Ramirez-Arellano '19**

**Southern Virginia University**

**Major: Biochemistry**

**Project Title: Characterizing the Interaction between Sec39/Use1 in the Dsl1 Multisubunit Tethering Complex**

**Princeton Advisor: Dr. Frederick M. Hughson**





## **Jenelys Ruiz-Ortiz '18**

**University of Puerto Rico, Rio Piedras**

**Major: Cellular-Molecular Biology**

**Project Title: The Effect of Lifestyle Factors and Aging on Differential Gene Expression Patterns in Human Blood**

**Princeton Advisor: Dr. Coleen T. Murphy**



## **Tanya Tafolla '18**

**University of California, Merced**

**Major: Applied Mathematics**

**Project Title: Creating Hidden Markov Models of Transport Protein Classification in Metagenomics Data**

**Princeton Advisor: Dr. Ned Wingreen**

***Awards post SURP experience:***

**\*Poster Award winner for Outstanding Presentation in Life Sciences, 2017 SACNAS.**