

LUIS ANTONIO HADDOCK III SOTO

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curriculum vitae

EDUCATION

PhD Student, Cell and Molecular Biology
minor: Quantitative Biology
University of Wisconsin, Madison

Madison, WI
August 2019-Present

M.S., Molecular Microbiology in Bioinformatics
Interamerican University of Puerto Rico, Metropolitan Campus
GPA: 4.00

San Juan, PR
2017-2019

B.Sc., Cell and Molecular Biology
University of Puerto Rico, Rio Piedras Campus
Major GPA: 3.55

San Juan, PR
2010-2016

HONORS AND RECOGNITIONS

Genomic Sciences Training Program (Fellowship)
Yale Ciencia Academy Fellow (NIH/NIGMS #1R25GM114000)
SciMed Fellowship- UW Madison
LSAMP (PR) grant and Travel Award (#1400868)
2016 Faculty Graduates – Outstanding Graduate
Dean's Honor List (Undergraduate)

May 2020 - Present
January 2020 - Present
August 2019 - Present
August 2014 – July 2016
May 2016
Spring 2016, Fall 2015,
Spring 2015, Spring 2013
Fall 2012

RESEARCH EXPERIENCE

-AIDS Vaccine Research Laboratories (AVRL) – UW Madison

March 2020 – Present

Research Assistant (Graduate Student)

Principal Investigator: Dr. Thomas C. Friedrich

Understanding transmission bottlenecks of Influenza A viruses in mammals.

-Institute of Neurobiology - University of Puerto Rico, Medical Sciences Campus

June 2017 – August 2019

Research Technician

Principal Investigator: Dr. Andrew M. Seeds

Application of mechanical stimuli targeting different antennal sensory neuron populations for eliciting grooming behavior in Drosophila. Research included the application of Machine Learning algorithms for behavior tracking.

-University of Puerto Rico, Rio Piedras Campus

January 2014 – July 2016

Undergraduate Researcher – (Biological Sciences Research Building, Julio García Díaz) under PR-LSAMP

Principal Investigator: Dr. Carlos I González

Determining the functional role of Upf2 phosphorylation in translation termination in yeast.

SUMMER INTERNSHIPS

HHMI - Janelia Research Campus, Dr. Marta Zlatic

Ashburn, VA

Janelia Undergraduate Scholar

Summer 2018

Optogenetic activation of Drosophila neuronal components to generate a Neuron-Behavior Map

Institute for Functional Nanomaterials

San Juan, PR

Nanotechnology Research Internship

June 2009

Development of nanoscale porous semiconductor films used for solar cells as energy sources in space.

PROFESSIONAL MEMBERSHIPS

American Society for Virology (ASV) -Since 2020

American Society for Microbiology (ASM) – Since 2019

American Association for the Advancement of Science (AAAS) – Since 2018

Neuroboricuas, Institute of Neurobiology – 2018 and 2019

American Society for Biochemistry and Molecular Biology (ASBMB) – Since 2014

SCIENTIFIC PRESENTATIONS

Generation of a Neuron-Behavior Map in Drosophila Larvae

- Janelia Research Campus JUS Presentation, Ashburn, VA [poster presentation] August 2018
- 2- Puerto Rico *Drosophila* Neurobiology Meeting, San Juan, PR, [poster presentation] August 2018

Determining the Functional Role of Upf2 Phosphorylation in Translation Termination in yeast.

- ASBMB Annual Meeting at Experimental Biology 2016, San Diego, CA. [poster presentation] April 2016
- 36- Puerto Rico Interdisciplinary Scientific Meeting and 51- Junior Technical Meeting, University of Puerto Rico, Rio Piedras Campus [oral presentation] March 2016
- 12- Bio Sciences week at the University of Puerto Rico, Rio Piedras Campus [poster presentation] September 2015
- 35- Puerto Rico Interdisciplinary Scientific Meeting and 50- Junior Technical Meeting, University of Puerto Rico, Rio Piedras Campus [oral presentation] March 2015
- 65- American Medical Student Association Annual Convention, Washington, DC [poster presentation] February 2015
- 1- American Society for Biochemistry and Molecular Biology, University of Puerto Rico, Rio Piedras Campus Meeting [poster presentation] November 2014

Targeting the Young Scientist Community through their Interest in Biochemistry and Molecular Biology

- 2016 ASBMB Annual Meeting at Experimental Biology 2016, San Diego, CA. April 2016 [poster presentation]

SKILLS

Software: Advanced proficiency on Microsoft Office programs (Excel, Word, Power Point.); Adobe Photoshop & Illustrator; Advanced proficiency on R (R-studio) programming for data analysis; Proficient with Python programming; Basic MATLAB programming; statistical analysis using GraphPad Prism and GPower 3.1; XCalibur software; Bioinformatics tools (MSA's, CLustalW, MAFFT, TCOFFEE, BEAST, MEGA, among others); Proficient with the use of the Command Line (Unix Shell).

Languages: Fully bilingual in Spanish and English; Basic Spanish ASL

TUTORING AND OUTREACH EXPERIENCE

Institute of Neurobiology – University of Puerto Rico, Medical Sciences Campus

- **Science Outreach for pre-college students** August 2017 – June 2019

University of Puerto Rico, Rio Piedras Campus

- **Molecular Genetics Tutor**, (BIOL 5398) January 2016 – May 2016
- **Biochemistry Tutor**, (BIOL 4545) January 2015 – December 2015

OTHER EXPERIENCES

University of Wisconsin-Madison

Biosciences opportunities preview program (BOP) participant

Madison, WI -September 2016

American Association for the Advancement of Science (AAAS)

Science Workshop for Kids, AAAS Caribbean Division - Meeting

San Juan, PR-September 2016

American Society for Biochemistry and Molecular Biology, UPR

Chapter Secretary

San Juan, PR. 2015 - 2016

Georgia Institute of Technology

FOCUS program participant for underrepresented groups in STEM

Atlanta, GA-January 2015/2016