LUIS ANTONIO HADDOCK III SOTO



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EDUCATION

PhD Candidate, Cell and Molecular Biology

Minor: Quantitative Biology University of Wisconsin, Madison Madison, WI

August 2019-Present

M.S., Molecular Microbiology

Minor: 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) fellowship and Travel Awards (#1400868)

2016 Faculty Graduates - Outstanding Graduate

Dean's Honor List (Undergraduate)

May 2020 - Present

January 2020-December 2020

August 2019 - Present August 2014 - July 2016

May 2016

Spring 2016, Fall 2015,

March 2020 - Present

Spring 2015, Spring 2013

Fall 2012

RESEARCH EXPERIENCE

AIDS Vaccine Research Laboratories (AVRL) - UW Madison

Research Assistant (PhD Candidate)

Principal Investigator: Dr. Thomas C. Friedrich

Understanding the role of anatomical compartmentalization and effective population size in driving influenza

A virus diversity

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

June 2017 – August 2019

Research Technician

Principal Investigator: Dr. Andrew M. Seeds

Implementing machine learning to detect behavioral responses in Drosophila using mechanical stimuli targeting

different antennal sensory neuron populations

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 Association for the Advancement of Science (AAAS)

American Society for Biochemistry and Molecular Biology (ASBMB)

American Society for Virology (ASV)

American Society for Microbiology (ASM)

Neuroboricuas - "Explora tu Cerebro en las San Se", Volunteer - Institute of Neurobiology (2018 and 2019)

SCIENTIFIC PUBLICATIONS

- Newman CM, Ramuta MD, McLaughlin MT, Wiseman RW, Karl JA, Dudley DM, Stauss MR, Maddox RJ, Weiler AM, Bliss MI, Fauser KN, Haddock III LA, ... Friedrich TC, O'Connor SL, O'Connor DH. Initial evaluation of a mobile SARS-CoV-2 RT-LAMP testing strategy. medRxiv [preprint]. 2021 Feb 27. PMID: 33655260
- Amato KM, **Haddock III LA**, Braun KM, Schaack GA, Higgins CA, Boehm EC, Barry GL, Meliopoulos V, Livingston B, Honce R, Schultz-Cherry S, Friedrich TC, Mehle A. Using barcodes for the detection and characterization of influenza A virus infection bottlenecks. [*manuscript in preparation*]
- Colón EM, Haddock III LA, Lasalde C, Lin Q, Ramírez-Lugo JS, González CI. Characterization of S. cerevisiae Upf2 mlF4G domains. [under review at PlosOne Journal]
- Braun KM, **Haddock III, LA,** Crooks CM, Barry GL, Lalli J, Neumann G, Watanabe T, Kawaoka Y, Friedrich T. Stochastic processes within hosts constrain adaptation of wildtype H7N9 avian influenza viruses to mammalian hosts. *[manuscript in preparation]*

SCIENTIFIC PRESENTATIONS

Quantifying influenza virus diversity during transmission and infection using molecular barcodes

- 2021 NHGRI Research Training and Career Development Annual Meeting [virtual poster] April 2021 Generation of a Neuron-Behavior Map in Drosophila Larvae

- Janelia Research Campus JUS Presentation, Ashburn, VA [poster presentation] August 2018
- 2nd 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
- 36th Puerto Rico Interdisciplinary Scientific Meeting and 51st Junior Technical Meeting, University of Puerto Rico, Rio Piedras Campus [oral presentation] March 2016
- 12th Bio Sciences week at the University of Puerto Rico, Rio Piedras Campus [poster presentation] September 2015
- 35th Puerto Rico Interdisciplinary Scientific Meeting and 50th Junior Technical Meeting, University of Puerto Rico, Rio Piedras Campus [oral presentation] March 2015
- 65th American Medical Student Association Annual Convention, Washington, DC [poster presentation] February 2015
- 1st 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: Proficient in Python, command line and R (Studio); Proficiency on Microsoft Office programs (Excel, Word, Power Point,) and Adobe (Photoshop and Illustrator); Basic MATLAB programing; Bioinformatics tools (MEGA, CLustalW, MAFFT, TCOFFEE, BEAST, among others).

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

TUTORING AND TEACHING 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)

- **Biochemistry Tutor,** (BIOL 4545)

January 2016 – May 2016 January 2015 – December 2015

REFERENCES

Dr. Thomas C Friedrich

Associate Professor Dept. of Pathobiological Sciences School of Veterinary Medicine UW-Madison 585 Science Dr Madison WI, 53711 608-265-3381

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Dr. Andrew M. Seeds

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