

# Raúl Mojica Soto-Albors

rmojica@mit.edu

## EDUCATION

*Doctor of Philosophy, Neuroscience (in progress)*  
Massachusetts Institute of Technology, Cambridge, MA 2019 - Present

*Bachelor of Science, Biology*  
University of Puerto Rico, Mayagüez June 2019  
Major GPA: 4.0 General GPA: 3.98

## RESEARCH EXPERIENCE

**University of Puerto Rico, Mayagüez** Aug 2018 - May 2019  
***Undergraduate Researcher, Martínez-Cruzado Lab***  
Project: Identification of single nucleotide polymorphisms exclusive to Puerto Rican and Native American populations

**McGovern Institute for Brain Research at MIT** Feb 2018 - Aug 2018  
***Visiting Scholar, Harnett Lab***  
Project: Landmark encoding in the retrosplenial cortex during navigation in virtual reality

**Caribbean Genome Center at UPRM** Aug 2017 – Feb 2018  
***Undergraduate Research Assistant, Majeske Lab***  
Project: Black long-spined sea urchin (*Diadema antillarum*) genome assembly

**McGovern Institute for Brain Research at MIT** June 2017 - Aug 2017  
***Undergraduate Research Intern, Harnett Lab***  
Project: Characterization of neuron population response during a landmark-dependent path integration task in mouse retrosplenial cortex

**University of Puerto Rico, Mayagüez** Jan 2016 - May 2016  
***Undergraduate Research Assistant, Martínez-Cruzado Lab***  
Project: Genome annotation of *Drosophila ficusphila*

## TEACHING EXPERIENCE

**Massachusetts Institute of Technology, Cambridge, MA** Sep 2021 - Dec 2021  
*Teaching Assistant*

- 9.17: Systems Neuroscience
- Profs. Mark T. Harnett & Steven Flavell

**Massachusetts Institute of Technology, Cambridge, MA** Sep 2020 - Dec 2020  
*Teaching Assistant*

- 9.01: Introduction to Neuroscience
- Prof. Mark Bear

**University of Puerto Rico, Mayagüez, Mayagüez, PR** Sep 2017 - Feb 2018  
*Undergraduate Teaching Assistant*

- BIOL4991 & BIOL4994: Genomic Data Analysis using Python
- Profs. Juan Martínez-Cruzado, Taras Oleksyk & Audrey Majeske

## SELECTED PUBLICATIONS AND PRESENTATIONS

Fischer, L. F., Mojica Soto-Albors, R., Buck, F. & Harnett, M. T. (2020). *Representation of visual landmarks in retrosplenial cortex. eLife.* <https://doi.org/10.7554/eLife.51458>

Mojica Soto-Albors, R., Fischer, L.F., Harnett, M.T. (2018, November). *Landmark encoding in the retrosplenial cortex during navigation in virtual reality.* Poster presented at ABRCMS 2018, Cambridge, MA.

Mojica Soto-Albors, R., Fischer, L.F., Harnett, M.T. (2017, August). *Characterization of neuron population response during a landmark-dependent path integration task in mouse retrosplenial cortex.* Poster presented at the MIT Summer Research Symposium, Cambridge, MA.

## FELLOWSHIPS AND AWARDS

- |   |                      |
|---|----------------------|
| <b>MathWorks Science Fellow</b>   | Sep 2022 - Present   |
| <b>BCS Graduate Student Fellow, MIT</b><br>Awarded the Stark 2020-2021 and the Bizzi 2021-2022 fellowships.   | Sep 2020 - June 2022 |
| <b>MARC U-STAR Fellow, UPRM</b><br>NIH-funded research program directed towards preparing students for biomedical higher degrees<br>Grant #5T34GM008419-27            | Aug 2017 - May 2019  |
| <b>MIT Summer Research Program in Neuroscience, MIT</b><br>Summer research program at MIT for undergraduates interested in pursuing graduate studies in Neuroscience. | June - Aug 2017      |
| <b>Academic Excellence Scholarship, UPRM</b><br>Full tuition exemption awarded to top 5% of undergraduate students  | Aug 2015 - May 2019  |
| <b>Dean's Honor Roll, UPRM</b><br>Member of the Honor Roll of the College of Arts and Sciences  | Aug 2014 - May 2019  |

## EXTRACURRICULARS

- |  |                      |
|--|----------------------|
| <b>MIT Summer Research Program Mentor</b> <ul style="list-style-type: none"><li>• Provide mentorship and career development advice to undergraduate summer interns</li></ul> | 2020 - Present       |
| <b>BCS Application Assistance Program (AAP)</b> <ul style="list-style-type: none"><li>• Provide one-on-one mentorship to PhD applicants from diverse backgrounds</li></ul>   | 2020 - Present       |
| <b>Organization for Development in Neuroscience</b> <ul style="list-style-type: none"><li>• Served on the board for three years</li></ul>                                    | June 2016 - May 2019 |