

# MARIO F ROJAS, B.S

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## Education

### Suffolk University

Boston, MA

B.S. Physics, Chemistry minor · Class of 2018 · GPA: 3.4 out of 4.0

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## Experience

### Suffolk University, Physics Department

Boston, MA - Jul 2017 – Present

*AR/VR Research Assistant*

- Incorporates virtual and augmented reality (AR/VR) technologies to educational curricula.
- Communicates with professors across a variety of academic fields to offer enhanced learning experiences to students on variety of disciplines.

### Suffolk University

Boston, MA - Feb 2017 – Dec 2018

*Research Assistant*

- Joint project with Massachusetts General Hospital, Radiation Oncology Department.
- Used neutron-sensitive detectors to study radiation environment in a cancer therapy room.
- Credited in published results on the SPS Observer journal.

### Suffolk University, Physics Department

Boston, MA - Aug 2014 – May 2018

*Lab Assistant*

- Coordinated with multiple professors on the organization and assembly of laboratory equipment for educational purposes in an academic laboratory.
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## Technical Skills

**Laboratory:** IR Spectroscopy; NMR Spectroscopy; Column chromatography; Fractional distillation; Electron tunneling microscope; Vacuum filtration; Crystallization; Solution/Buffer synthesis; Fume hoods; Micropipetting; Polymerase Chain Reaction (PCR); Gel electrophoresis; pH and conductivity meters.

**Computer:** Microsoft Office (Word, Excel, PowerPoint, Outlook), ChemDraw, Wolfram Mathematica, Python. Oculus Rift, Oculus Go, Microsoft Hololens.

**Language:** Native Spanish; Fluent English.

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## Professional Affiliations

### Suffolk University Society of Physics Students (SPS)

Sept 2015 – May 2018

Position held: Founding Member & Secretary.

- Held responsibility for administrative and coordinative duties for events, meetings and seminars on campus.
- 2 National Conferences attended: Attended Spring 2017 conference. Participated in poster session in fall 2017.

### Suffolk University American Chemistry Society (ACS)

Mar 2015 – May 2017

Position held: Public Relations Coordinator.

- Promoted chemistry-related workshops and events on campus.
  - Served as peer educator in local events at the Boston Museum of Science and the Boston Children's Museum.
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## Honors and Awards

### Spaziani Award from Physics Department

Nov 2015

One-time award for outstanding academic achievements accompanied by a partial educational scholarship.

### SPS Chapter Research Award

Dec 2017

Awarded to activities deemed likely to contribute the growth of the SPS program.

### American Chemical Society New Activities Grant

Aug 2015

Helped write a grant for a student demonstration about chemistry of smell.