

# Biographical Sketch

**Ronaldo H. Franjul**

## Current Status:

Undergraduate Junior Student  
Department of Chemistry  
University of Puerto Rico, Rio Piedras Campus

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## Education:

August 2016-present                      University of Puerto Rico, Rio Piedras  
May 2022                                      BS Chemistry (expected)

## Research Interests:

Our main research goal is to develop the nZVI Remediation Technology, with this pilot project, that may lead to novel methods in health treatment of heavy metal poisoning. An approach to develop nZVI production technology that is greener and cheaper is one of our benchmarks and market competitive edge. It is of our interest to establish an alternative green synthesis of nZVI evaluating different natural extracts such as mango and curry leaves. The nZVI will be characterized by different physical and chemical characterization techniques such as ICP, XRD, XPS, HRTEM and SEM.

## Research Experience:

**2019**                                      UPR-Rio Piedras, Undergraduate Researcher (mentor Dr. Jose M. Rivera)  
**2019 (summer)**                      Purdue University, Undergraduate Intern (mentor: Jianguo Mei)  
**2020-Present**                      UPR-Rio Piedras, Undergraduate Researcher (mentor Dr. Carlos R. Cabrera)  
**2020 (summer)**                      Rutgers University, Undergraduate Intern (mentor: Dr. Kate Waldie)

## Honors:

**2017-Present**                      Dean's Honor List  
**2017-Present**                      National Society of Collegiate Scholars  
**2018**                                      National Society of Collegiate Scholars Honor Roll Badge  
**2018**                                      Honor Roll Medal  
**2019**                                      3<sup>rd</sup> Place Poster Presentation at Purdue University  
**2020**                                      Research Initiative for Scientific Enhancement (RISE) Undergraduate Member

