

## Biographical Sketch

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### **Adriana Claudio-Vázquez**

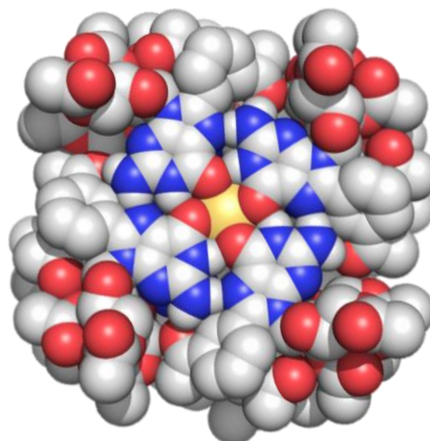
Undergraduate Student  
Dept. of Chemistry - UPRRP

### **Email**

adriana.claudio2@upr.edu

### **Education**

2017-2022      BS Chemistry (expected)



### **Current Research Interest**

Our lab focuses in the synthesis and characterization of deoxyguanosine derivatives (dG) and their applications. These dGs self-assemble in supramolecular G-Quadruplexes (SGQs) which aggregates into supramolecular Hack Sacks (SHSs) in certain conditions. Both assemblies have shown important biomedical applications (e.g. interacting with cellular components or as drug delivery agents). Currently we are studying temporal control over self-assembly by using a reversible thiol-Michael addition reaction.

### **Research Experiences**

2018-present      Undergraduate Researcher, UPRRP (mentor: Dr. José M. Rivera)  
Summer 2019      Undergraduate Intern, Worcester Polytechnic Institute (mentor: Dr. John C. MacDonald)

### **Honor's**

2018-present      Dean's List  
2018-2019      Puerto Rico Louis Stokes Alliance for Minority Participation (PR-LSAMP) Fellowship  
2019-present      Research Initiative for Scientific Enhancement (RISE) Fellowship

### **Presentations at Local Meetings**

Claudio-Vázquez, A., Silva, D., Rivera, J. Detection of Supramolecular Deoxyguanosine Derivatives by a Cu-Catalyzed Huisgen Cycloaddition Reaction. 53rd ACS Junior Technical Meeting, University of Puerto Rico Mayagüez, PR, May 4, 2019.