

## Biographical Sketch

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### **VICTORIA YAZMÍN SOTO DÍAZ**

Ph.D. Student in Chemistry

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#### **EDUCATION**

<i>2018-Present</i>	University of Puerto Rico at Rio Piedras	San Juan, PR
	Ph.D. Student in Chemistry	
<i>2018</i>	University of Puerto Rico at Rio Piedras	San Juan, PR
	BS in Chemistry	

**CURRENT RESEARCH INTEREST:** My research is focused on developing nanosystems that would serve as MRI contrast agents and photothermal agents for cancer treatment. By employing theranostics nanosystems that incorporate both therapeutic and diagnostic capabilities in one dose, an individualized treatment will be developed.

#### **RESEARCH EXPERIENCE**

<i>August 2019-Present</i>	Development of Manganese-doped Iron Oxide Nanoparticles Coated with Nickel Bis-dithiolene complex as a Theranostic Agent
San Juan, PR	Principal Investigator: Dalice M. Piñero Cruz, Ph.D.

#### **HONORS AND AWARDS**

<i>July 2020-Present</i>	RISE UPRRP fellow
San Juan, PR	
<i>February 2020</i>	Second place at the Poster Presentation of the Second Users Meeting of the UPR's X-Ray Diffraction Facility
San Juan, PR	

#### **PUBLICATIONS:**

P.1) Cordero Giménez, K. T.; Soto Díaz, V. Y.; González Espiet, J. C.; Lavin Flores, A.; Bas Concepción, J.; Rivera Cruz, K. E; Rodríguez Ayala, D. L.; Piñero Cruz, D. M. **“Crystal Structure, Hirshfeld surface analysis and spectroscopic characterization of the compound 3,3’-[(2-sulfanylidene-1,3-dithiole-4,5-diyl)bis(sulfanediy)] bis(pentane-2,4-dione)”** *Acta Cryst. E.* **2020**, E76, 1427-1432.

#### **PRESENTATIONS:**

Po.1) **“Tautomerism of a Dithiolene Derivative with Acetylacetonate Moieties: Spectroscopic and Structural Characterization by Single Crystal X-Ray Diffraction”** Second Users Meeting of the UPR's X-Ray Diffraction Facility, San Juan, Puerto Rico, USA, **2020**.

**EXTRACURRICULAR:**

- 2018-2019* Teachers Assistant to Organic Chemistry Minor course  
San Juan, PR  
QUIM3031- QUIM3032
- 2018-2020* Pre-Marc Tutor for General Chemistry  
San Juan, PR  
QUIM3073 - QUIM3074
- 2019-2020* Member of the Graduate Chemistry Association (AGQ)  
San Juan, PR  
Member of the directive  
Co-Secretary
- 2019-2020* Teachers Assistant to Organic Chemistry Mayor course  
San Juan, PR  
QUIM3451- QUIM3452
- Aug. 2017-2018* Member of the American Chemical Society (ACS)  
San Juan, PR  
Member of the directive  
Secretary