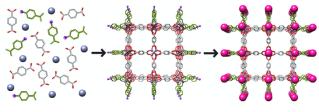
# Israel Rodríguez Rodríguez

### **Current Status**

Graduate Student Researcher Department of Chemistry, UPR-RP

E-mail: Israel.rodriguez6@upr.edu

# **EDUCATION**



Abánades Lázaro, I.; Haddad, S.; Sacca, S.; Orellana-Tavra, C.; Fairen-Jimenez, D.; Forgan, R.S., Chem 2017, 2, 561–578.

### **Expected Graduation May 2021**

Ph.D., **Chemistry** University of Puerto Rico Río Piedras Campus, San Juan, Puerto Rico

Graduated on May

B.S., **Chemistry** 2015 University of Turabo, Gurabo, Puerto Rico

### **RESEARCH INTERESTS**

My research interests include the synthesis, characterization and applications of porous solids. My current efforts are particularly focused on developing hybrid nanomaterials, including nanoscale metal-organic frameworks (MOFs) for drug delivery. MOFs are formed through coordination between metal ions and organic ligands. MOFs exhibit desired features as drug carriers including high surface areas and large pore sizes that enable the encapsulation of large quantities of active pharmaceutical ingredients. I aim to exploit the new opportunities these materials can offer compared with other drug delivery systems.

### **RESEARCH EXPERIENCE**

|   | January 2016 - present  |
|---|-------------------------|
| Graduate Research Assistant, Molecular Sciences Center, San Juan, Puerto Rico |                         |
| Advised by Dr. Vilmalí López-Mejías   |                         |
|   | August 2014 – June 2015 |

Undergraduate Research Assistant, University of Turabo, Gurabo, Puerto Rico *Advised by Dr. Ileana González González* 

### **PROFESSIONAL EXPERIENCE**

July 2018– Present Research Initiative for Scientific Enhancement (RISE) Program Fellow, University of Puerto Rico Río Piedras Campus, San Juan, Puerto Rico

### June 2018– August 2018

University of Puerto Rico-Chemical Learning in Materials and Biomolecular Applications Research Experience for Undergraduates (UPR-CLIMB REU) 2018 Mentor, University of Puerto Rico Río Piedras Campus, San Juan, Puerto Rico

# June 2017 – August 2017

University of Puerto Rico-Chemical Learning in Materials and Biomolecular Applications Research Experience for Undergraduates (UPR-CLIMB REU) 2017 Mentor, University of Puerto Rico Río Piedras Campus, San Juan, Puerto Rico

# August 2016 - Present

Laboratory Manager of Crystallization Design Institute, Molecular Sciences and Research Center, San Juan, Puerto Rico

# August 2015 - June 2016

Teaching Assistant, Organic Chemistry, University of Puerto Rico, Río Piedras Campus, San Juan, Puerto Rico

# August 2015 - June 2016

General Chemistry Course Tutor, Pre-Minority Access to Research Careers (MARC), University of Puerto Rico Río Piedras Campus, San Juan, Puerto Rico

# PRESENTATIONS

<u>Rodríguez, I.</u>, Serrano Valcarcel, J. M., López-Mejías, V. "Design and Synthesis of Pharmaceutical-based Biocompatible Metal Organic Frameworks as Efficient Multi-Drug Delivery Systems" ACS Junior Technical Meeting/Puerto Rico Interdisciplinary Science Meeting (JTM/PRISM), Poster Presentation, April 28<sup>th</sup>, **2018**.

<u>Rodríguez, I.</u>, López-Mejías, V., "One-pot Synthesis of Drug Loaded Metal Organic Frameworks Towards Achieving their Maximum Capacity." ACS Junior Technical Meeting/Puerto Rico Interdisciplinary Science Meeting (JTM / PRISM), October 14<sup>th</sup>, **2017**. (Accepted-Canceled)

### **PROFESIONAL MEMBERSHIPS**

| 2016 – Present | Member of the Crystallization Design Institute (CDI)   |
|----------------|--|
| 2015 – Present | Member of the Graduate Chemistry Association (AGQ), University of Puerto Rico Río<br>Piedras Campus                    |
| 2013 –2015     | Member of the American Chemical Society (ACS), Turabo Chapter  |
| 2013 - Present | Member of the American Chemical Society (ACS)  |
| OUTREACH       |  |
| May 2018       | Open House, Molecular Sciences and Research Center, San Juan, Puerto Rico  |
| June 2017      | Creando ConCiencia (Create Awareness through Science) Molecular Sciences and<br>Research Center, San Juan, Puerto Rico |