Biographical Sketch

Keysha T. Cordero Giménez

Current Status
PhD Candidate
Dept. of Chemistry, UPR- Rio Piedras
Email: keysha.cordero@upr.edu

Education

2016	BS Chemistry, UPR-Cayey
2017 – present	Chemistry Graduate Program, UPR-RP
2022	PhD in Chemistry (expected)

Research Interests:

My research is focused on theragnostic agents with the development of a novel system which serve as MRI contrast agent and photothermal agent. MRI and Photothermal therapy techniques are combined into a single agent with strong NIR absorbances and permanent magnetic moments. This can reduce the T1 and T2 proton relaxation times with a good efficiency.

Research experiences:

July 2019- present
Ph.D Graduate Student
RISE Program- UPR- Rio Piedras
Coordianation Chemistry Laboratory
Principal Investigator: Dalice M. Piñero Cruz, Ph.D

August 2018- May 2019
Inorganic Chemistry Laboratory Technician
Molecular Sciences Research Center
Utilization and maintenance of the MiniSpec Bruker Relaxometer and the Single Crystal X-ray Diffractometer.

January 2015- April 2015
Undergraduate research
University of Puerto Rico, Cayey, P.R.
Determination of concentration of Lead in lipstick and nail polish in a recognized trademark using Atomic Absorption Spectroscopy. (Mentor, Wilfredo Resto, Ph.D.)

January 2014- May 2014
Undergraduate research
University of Puerto Rico, Cayey, P.R.
Bioethanol production from fermentation product in solid and liquid phase of the Syzygium Malaccense. (Mentor, Luz E. Torres, Ph.D.)

Other Research Activities:

September 2018	Image Analysis Workshop using NIS Element Software
January 2018	Single Crystal X-ray Diffractometer Workshop

Awards:

July 2019- present	RISE Program Fellow

Submission in progress:
Synthesis and characterization of two new dithiolene ligands from acetyl acetanoate and pyrazole susbtituents, Keysha T. Cordero Giménez, Dara L. Rodríguez Ayala, Ángel Hernández Mejías, Jesbaniris Bas, Kristian Calderón, Jean C. González Espiet and Dalice M. Piñero Cruz; manuscript to be submitted to Inorganic Chemistry.