

Luis A. Pérez Almodóvar
 (787) 238-6814 | luis.perez3@upr.edu
 PO Box 988 Lajas, P.R., 00667
 US Citizenship



Objective

Dedicated **Chemist** seeking an **Internship, Coop or Full Time Job** position where I can apply and maximize my knowledge and professional skills in Chemistry and Research with the opportunity of acquiring experience in an innovative laboratory.

EDUCATION

University of Puerto Rico, Mayagüez Campus August 2017- Present
Master's Degree in Analytical Chemistry
Expected Graduation Date: December 2018
GPA: 3.77

University of Puerto Rico, Mayagüez Campus August 2012 – May 2017
Bachelor of Science in Chemistry
Graduation Date: July 2017
GPA: 3.00

EXPERIENCE

-Teaching Assistant at University of Puerto Rico, Mayagüez Campus January 2018-Present
Laboratory Assistant of Physical Chemistry Laboratory. Part of the duties is assisting undergraduate students during the experiment of **Raman Spectroscopy** Measurements in Dilutions of Acetone. Explain them the use of **Raman Pin Pointer** and how analyze the data with **Opus Software**.

-Teaching Assistant at University of Puerto Rico, Mayagüez Campus January 2018-Present
Laboratory Instructor of **Quim5175 (Analysis and Detection of Explosives)**. Part of the responsibilities is assisting undergraduate and graduate students during the **synthesis of the explosives (RDX, PETN, and NU)** and assist with the use of **instrumentation to characterize their products as FTIR-ATR, Raman, QCL**, among other instrumentation. Explain them the use of **Chemometrics** to create models that can be used to **enhance the detection, discrimination, and quantification of these explosives**.

-Teaching Assistant at University of Puerto Rico, Mayagüez Campus August 2017-Present
Laboratory Instructor of General Chemistry Laboratory. Part of the responsibilities are assisting undergraduate students during their **experiments execution, tutoring, Evaluating finals reports, exams, and quizzes**.

-Research Scientist at Chemistry Department, University of Puerto Rico-Mayagüez Campus July 2017- Present
 Working in the **Center for Chemical Sensors Development (CCSD)** and **Chemical Imaging Center (CIC)**. The project consists of developing a **new method** for coupling **Thin layer chromatography (TLC)** with **Quantum Cascade Laser (QCL)** to separate mixtures and detect different types of **explosives**.

- Undergraduate Researcher (Internship) at the Forensic Science Institute of PR (ICF) July 2016-August 2016
 Realized extractions for screenings and confirmation drugs using the technique of **Solid Phase Extraction (SPE)**. The following technique required **self-extraction equipment (Rapid Trace)**. Used **LC/MS** for the analysis of screening of drugs in post-mortem case. Used **GC/MS** for the analysis of confirmation drugs.

-Department of Chemistry, Analytical Laboratory (Research Assistant)–UPRM: Dr. Felix Roman June 2016-May 2017
 Worked on the characterization of plastic microbeads using **IR-ATR** and **Raman spectroscopy**. Microbeads will be isolated from water and other products for characterization to determine how they can impact bodies of water.

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- USDA Student Trainee in Chemistry Laboratory (Volunteer)** January 2016-May 2016
 Processing of vegetative tissue and soil samples for chemical analysis with **ICP-OES, AA, UV-VIS and Kjeldahl method for nitrogen.**

- Department of Chemistry, Inorganic Laboratory (Research Assistant)-UPRM: Dr. Enrique Melendez** January 2015- May 2016
 Work with the **synthesis of organometallic and nanoparticles** compounds with applications as **drugs anticancer.**

- UPRM Athletic Activities Department (Logistics Representative)** August 2013- May 2016
Organizing activities and delivering weekly shopping bills promptly. Delivering and tracking documentation efficiently to support administrative purposes. Developed **written and oral communications**, improved on **multitasking** and **working under pressure.**

ACTIVITIES

- Graduating Class 2016-2017 UPR-Mayaguez (Member of the directive):** August 2016-May 2017
 Supporting in activities Pro Class Fund. **Team Work** and **Making Decisions** for the benefit of the entire class.

- AIChE-IIQPR UPR-Mayagüez, SHPE UPR-Mayaguez, and American Chemical Society UPRM Chapter** August 2013-May 2017
 Helping to achieve chapter success by **promoting events to increase participation.** Supporting **logistics coordination** for chapter's social and **professional activities.** Participate in **community activities** such as cleaning beaches.

- Team Captain UPRM CAAM Baseball Team and CAAM Softball Team** August 2014-May 2016
Leading team players to maximize their potential, while **promoting discipline, responsibility, and respect** within the team. **Coordinating strategies** to increase team overall performance efficiently.

TECHNICAL / NON-TECHNICAL SKILLS

Personal: Proficient Bilingual (English and Spanish), Teamwork, Leadership and Interpersonal Skills.

Professional: Laboratory Safety, Synthesis, Analytical Processes, Chemometrics (Unscrambler®), Minitab18, Opus, LC/MS, FT-IR, Raman, QCL, SEIRA, SERS, UV-Vis, AA, ICP, HPLC, UPLC, GC/MS and Microsoft Office: Word, PowerPoint, and Excel.