

# MANUEL J. QUIÑONES PÉREZ

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## EDUCATION & WORKSHOPS

- Aug 2020-Present      **PhD Biomedical Engineering**, Georgia Institute of Technology and Emory University
- 2014- May 2020      **BS Industrial Biotechnology**, University of Puerto Rico Mayagüez  
**GPA: 3.90 / 4.00**
- January 2019      **Quantitative Methods Workshop**, one-week workshop  
Massachusetts Institute of Technology, Cambridge, MA

## RESEARCH EXPERIENCE

- Aug 2018 - May 2020      **Chemical Engineering Department Undergraduate Researcher**  
University of Puerto Rico, Mayagüez
- Working with Dr. Maribella Domenech in the characterization of modified PDMS for its applications in small hydrophobic molecule driven cell and drug assays.
  - *Generated a first author publication currently under review*
- Jun 2019 - Jul 2019      **AMGEN Scholar**  
UT Southwestern Medical Center
- Worked with Dr. Jinming Gao in the characterization of peptide properties for loading mechanisms in polymer-based nanoparticles.
  - *Contributed as second author in publication currently under review*
- Feb 2018 - May 2018      **Biology Department Undergraduate Researcher**  
University of Puerto Rico, Mayagüez
- Worked with Dr. Sandra Maldonado in the Aerobiology, Tropical Mycology and Endophyte Fungi laboratory.
- Jun 2018 - Jul 2018      **IREU in the Function and Structure of Proteins**  
College of Pharmacy, University of Michigan
- Worked with Dr. Wei Cheng in the encapsulation of CpG in engineered liposomes with tailored antigen densities.
- Oct 2015 - May 2016      **Chemistry Department Undergraduate Researcher**  
University of Puerto Rico, Mayagüez
- Worked with Dr. Luis Rivera in the development of an analytical method for the detection of biomarkers to determine the severity of the Dry Eye Syndrome.

## CONFERENCE PRESENTATIONS

- Quiñones, M., Cieza, R., Domenech, M. (2020) Suitability Characterization of PDMS-PEO-SA to Replace PDMS in Culture Devices for Assays Using Small Hydrophobic Molecules. Poster presentation at CMBE BMES Conference, Rio Grande, PR
- Quiñones, M., Cieza, R., Domenech, M. (2019) Targeting PDMS Hydrophobicity for Study of Small Hydrophobic Molecule-Driven Cell Responses in Vitro. Oral presentation at ABRCMS 2019, Anaheim CA
- Quiñones, M., Cieza, R., Domenech, M. (2019) Targeting PDMS Hydrophobicity for Study of Small Hydrophobic Molecule-Driven Cell Responses in Vitro. Poster presented at Lilly Academy Technical Forum, San Juan, PR
- Quiñones, M., Chen, Z., Cheng, W. (2019) Encapsulation and Quantification of CpG in Non-Cationic Liposomes with Tailored Epitope Densities. Poster presented at ERN 2019, Washington D.C.
- Quiñones, M., Cieza, R., Domenech, M. (2018) Targeting PDMS Hydrophobicity for Study of Small Hydrophobic Molecule-Driven Cell Responses in Vitro. Poster presented at 41<sup>st</sup> ACS Senior Technical Meeting, Guayanilla, PR
- Quiñones, M., Chen, Z., Cheng, W. (2018) Encapsulation and Quantification of CpG in Non-Cationic Liposomes with Tailored Epitope Densities. Poster presented at ABRCMS 2018, Indianapolis, IN

## **PROFESSIONAL EXPERIENCE**

- Jan 2020 – Jun 2020    **Technical Services/Manufacturing Science COOP Student**  
Lilly del Caribe Inc, Carolina, PR
- Jan 2017 - Feb 2018    **Technical Center COOP Student**  
Technical Center, AbbVie Biotechnology Ltd.

## **HONORS AND AWARDS**

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|-----------|---|
| 2020      | Emory Centennial Scholarship  |
| 2020      | Goizueta Foundation Fellowship  |
| 2020      | Georgia Tech Presidential Fellowship  |
| 2019      | Emerging Researchers National Conference Travel Award                         |
| 2019      | Boy Scouts of America Council Venturing Leadership Award                      |
| 2018-2020 | NIH MARC U-STAR Scholar   |
| 2017      | AbbVie Excellence Awards for “Agile and Accountable” and “All for One AbbVie” |
| 2017      | Academic Excellence from the Industrial Biotechnology Department              |
| 2015-2020 | UPRM Arts and Sciences Faculty Honor Student                                  |
| 2015-2020 | UPRM Honor Student Tuition Fee Exemption                                      |

