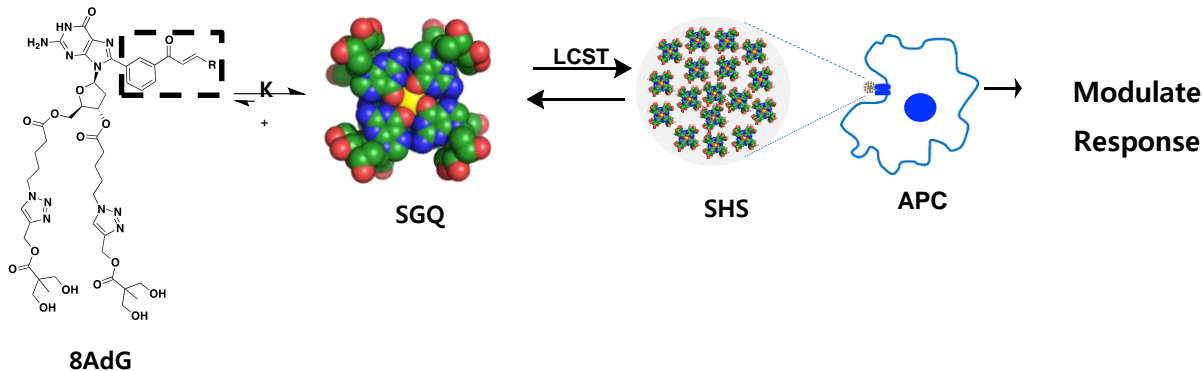


## Maxier Acosta Santiago



### CURRENT STATUS

PhD Candidate

Dept. of Chemistry, UPR-Rio Piedras Campus

Email: a.maxier@gmail.com

### EDUCATION

2007-2013: B.S. in Chemistry, Chemistry Dept., University of Puerto Rico, Rio Piedras Campus, San Juan, P.R.

2014-Present: Ph.D. in Supramolecular Chemistry, Chemistry Dept., University of Puerto Rico, Rio Piedras Campus, San Juan, P.R.

### CURRENT RESEARCH INTEREST:

Research in applied computational chemistry, biochemistry, bio-relevant systems, drug design and supramolecular chemistry.

### RESEARCH EXPERIENCE

2009-2013: Undergraduate Research Assistant – University of Puerto Rico – Río Piedras Campus, Department of Chemistry.  
Advisor: Jose M. Rivera , Ph.D.

2011- 2012: Colorado Space Grants Consortium Rocksats-X project  
Advisor: Oscar Resto

2012: Undergraduate Research Assistant – University of Puerto Rico – Río Piedras Campus, Department of Chemistry.  
Advisor: Zhongfang Chen, Ph.D.

2015-Present: Graduate Research Assistant – University of Puerto Rico  
– Río Piedras Campus, Department of Chemistry.  
Advisor: José M. Rivera, Ph.D.

## FELLOWSHIP

2015.7-Present: RISE – UPR-RP Fellow

## LOCAL PRESENTATIONS

- Acosta- Santiago, M; García- Arriaga, M.A.; Cruz, A; López, G.; Rivera, J.M.; **“Molecular Dynamics Simulations of Li<sup>+</sup> Cation Interactions in the Self-Assembly of Guanosine Derivatives”**, University of Puerto Rico- Río Piedras Campus; 2011 Puerto Rico Interdisciplinary Scientific Meeting; Bayamon, Puerto Rico, March 2011
- Acosta-Santiago, M.; García-Arriaga, M.; Cruz, A.; Rivera-Rivera, J. M.; López, G. E.; Rivera, J. M.,**“Atomistic Molecular Dynamics Simulations of Supramolecular G- quadruplexes of Different Molecularities”**, University of Puerto Rico- Río Piedras Campus; 2012 Puerto Rico Interdisciplinary Scientific Meeting; Carolina, Puerto Rico, March 2012
- Acosta-Santiago, M.; García-Arriaga, M.; Rivera, J. M.\*, **“Molecular dynamics simulations of lipophilic and hydrophilic supramolecular G-quadruplexes”**, 2013 Puerto Rico Interdisciplinary Scientific Meeting; Gurabo, Puerto Rico, March 2013
- Acosta-Santiago, M.; Rivera, J. M.\*, **“Elucidating Binding Interaction of 8-Arylguanosine Derivatives with Toll Like Receptors 7 and 8 by Computational Docking Experiments”**, 2015 Puerto Rico Interdisciplinary Scientific Meeting; San Juan, Puerto Rico, March 2015
- Acosta-Santiago, M.; Rivera, J. M.\*, **“Synthesis and Self-Assembly Studies of Potentially Immunomodulatory Particles made from Guanosine Derivatives”**, 2016 Puerto Rico Interdisciplinary Scientific Meeting; Ponce, Puerto Rico, March 2016
- Acosta-Santiago, M.; Rivera, J. M.\*,**“Supramolecular particles made from guanosine derivatives to study and modulate the immune system”** 2016 AAAS Caribbean Division Annual Meeting; San Juan, Puerto Rico; September, 2016

## NATIONAL PRESENTATIONS

- Acosta-Santiago, M.; Rivera, J. M.\*, “**Immunomodulatory Activity of Colloidal Supramolecular Particles Made from Guanosine Derivatives**” 251st ACS National Meeting and Exposition; San Diego, CA, USA, March, 2016
- Acosta-Santiago, M.; Rivera, J. M.\*, “**Development of supramolecular particles made from guanosine derivatives to study and modulate the immune system**” 253st ACS National Meeting and Exposition; San Francisco, CA, USA, April, 2017

## **PUBLICATIONS**

García-Arriaga, M.; Acosta-Santiago, M.; Cruz, A.; Rivera-Rivera, J. M.; López, G. E.; Rivera, J. M., Probing the limits of supramolecular G-quadruplexes using atomistic molecular dynamics simulations. *Inorganica Chimica Acta* **2017**, 468 (Supplement C), 209-222

## **COURSEWORK: In addition of required courses**

- Certified on “Norm of Communication and Risk” by the Office of Protection and Occupational Security (July, 2010)

## **WORK EXPERIENCE**

2009.8-2009.12: Chemistry Tutor

2013.8-2014.5: General Chemistry Teaching Assistant, University of Puerto Rico – Río Piedras Campus, Department of Chemistry.  
Advisor: Liz M. Díaz, Ph.D.

2015.1-2015.5: Inorganic Chemistry Teaching Assistant, University of Puerto Rico – Río Piedras Campus, Department of Chemistry.  
Advisor: Arthur Tinoco, Ph.D.

## **OTHER ACTIVITIES**

2008- Present: American Chemical Society member, UPR-RP chapter