

Curriculum Vitae/Resume

Jorge L. Berríos Rivera

EDUCATION:

August 2018-present: PhD in Chemistry and Biochemistry, **University of Oklahoma**

July 2017-June 2018: Post-baccalaureate Research and Education Program (PREP), **University of Kansas**

August 2012-July 2017: B.S. in Natural Sciences General Program, **University of Puerto Rico at Cayey**

RESEARCH EXPERIENCE:

Post-baccalaureate Research and Education Program (PREP), **University of Kansas** August 2017-June 2018

Mentor: Ryan A. Altman

Title: Pd-Catalyzed Functionalization of Gem-difluoroalkenes Enables Access to β -chloro- α,α -difluoroalkyl Arenes

PREM Undergraduate Research Student, **University of Puerto Rico at Cayey** October 2015-July 2017

Mentor: Dr. Víctor Pantojas-Rodríguez

Titles: 1) *Control of Pore Size in Cellulose Membranes*

2) *Characterization of cellulose membrane filters after deposition by electrospinning*

3) *Ligand mediated interaction between hard metal nanoparticles and cellulose polymer fibers*

SURE Undergraduate Intern, **University at Buffalo** June-August 2016

Mentor: Dr. Gabriela K. Popescu

Title: *Modulation of GluN2B channel activity by the Major Histocompatibility Complex I (MHCI)*

REU Quest Undergraduate Intern, **Grand Valley State University** June-August 2015

Mentor: Dr. Richard R. Rediske

Title: *Harmful Cyanobacteria in Bear Lake and Muskegon Lake: Characterization of the toxin producing species and the analysis of Microcystin*

STUDENT ASSOCIATIONS AND PROFESSIONAL AFFILIATIONS

Chemistry Circle-ACS Student Chapter **University of Puerto Rico at Cayey**

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Historian	April 2015-May 2017
Member	August 2013-May 2017

Legacy Professional Association	University of Puerto Rico at Cayey
Member	August 2015-March 2017

RESEARCH PRESENTATIONS AND CONFERENCES ATTENDED

American Chemical Society (ACS) National Meeting	April 2-6, 2017
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Title: *Control of Pore Size in Cellulose Membranes*

Annual Biomedical Research Conference for Minority Students (ABRCMS)	November 9-12, 2016
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Title: *Modulation of GluN2B channel activity by the Major Histocompatibility Complex I (MHC I)*

PENN-UPR Partnership for Research and Education in Materials (PREM) Annual Meeting

Titles: 1) <i>Ligand mediated interaction between hard metal nanoparticles and cellulose polymer fibers</i>	December 16, 2016
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2) <i>Control of Pore Size in Cellulose Membranes</i>	November 20, 2015
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PREM 9th Annual Symposium: Structure and Properties of Biopolymers	May 6, 2016
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Title: *Characterization of cellulose membrane filters after deposition by electrospinning*

SKILLS

Basic Organic Chemistry techniques through coursework

Basic Analytical Chemistry techniques through coursework

- REU Quest Undergraduate Intern, Robert B. Annis Water Resources Institute, Grand Valley State University: Enzyme-Linked ImmunoSorbent Assay (ELISA)

Basic Biological techniques through coursework

- SURE Undergraduate Intern, University at Buffalo: Electrophysiology

Material Science techniques: PREM Undergraduate Research Student, University of Puerto Rico at Cayey

- Electrospinning, Scanning Electron Microscopy (SEM), Energy Dispersive Spectroscopy (EDS)

Languages: Spanish (native) and English (secondary)