

OSORIO MORALES NICOLAS

Department of Chemistry, University of Georgia

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EDUCATION

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| University Of Georgia M.S., Organic Chemistry | Athens, GA, U.S In Progress |
| University of Quindío B.S., chemistry. Thesis work with Honor distinction. | Armenia, Colombia August 2016 |

TEACHING EXPERIENCE

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| Graduate Teaching Assistant University Of Georgia, Department of Chemistry Spring semester, 2021. | January 2021 - present Athens, GA, U.S |
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- Instructed weekly organic chemistry laboratory sessions of approximately 24 students.
- Graded organic chemistry lab reports.
- Administered organic chemistry laboratory exams

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| Adjunct Professor University of Quindío, Faculty of Sciences | August, 2018 - July 2019 Armenia, Colombia |
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Fall Semester, 2018:

- Organic chemistry
- Analytical chemistry
- General chemistry II

Spring Semester, 2019:

- General chemistry

RESEARCH EXPERIENCE

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| Lab Technician University of Quindio, Faculty of Sciences | August 2019 - Present Armenia, Colombia |
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- Take inventory of reagents belonging to the university
- Prepare orders for new reagents to maintain inventory levels
- Track statistics of reagent use and make suggestions based on results
- Maintain water purification system for laboratory use

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| Young Researcher with Dr. Rios Eunice University of Quindío, Chemical Group on Research in Environmental Development | April, 2017 – April 2018 Armenia, Colombia |
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- Established conditions for purification of natural products from extracts of different species
- Isolated and purified secondary metabolites from *Ipomoea trifida* by High Performance Liquid Chromatography technique
- Identified glycosidic acids by Nuclear Magnetic Resonance spectra
- International research stay, April 2018: National Polytechnic Institute, Silao de la Victoria, Mexico

Young Researcher with Dr. Padilla S. Leonardo - Bioinformatics

University of Quindío, Biomedical Sciences Institute

June, 2016 - February, 2017

Armenia, Colombia

- Modeled *in silico* proteins from sequence of amino acids using homology
- Assessed molecular coupling of curcumin with non-structural proteins 3 and 5 of the dengue virus
- Assisted with the server configuration for bioinformatics work

Thesis Work with Dr. Edwar Cortés Gonzalez and Dr. Fernando Cuenú Cabezas

University of Quindío, research group on Catalysis and Organometallic Compounds

January, 2015 – June, 2016

Armenia, Colombia

- Synthesized and characterized pyrazoles and imidazolones
- Calculated the ground state of crystalized molecules using Gaussian software
- Calculated the ligands theoretical Nuclear Magnetic Resonance and Ultraviolet spectra

Laboratory Assistant

University of Quindío, Faculty of Sciences

August, 2013 – June , 2014

Armenia, Colombia

- Scheduled laboratory practices for students
- Maintained the resources in the lab, such as devices, material and laboratory safety
- Assisted professors with laboratory practices

LEADERSHIP EXPERIENCE

VII Applied Chemistry Symposium and I Colombian Symposium on Chromatography, Organizing committee member

University of Quindío, Faculty of Basic Sciences

June, 2015 - September, 2015

Armenia, Colombia

- Revised and organized symposia abstracts
- Assisted Symposia presenters with technical aspects
- Planned the advertising campaign for the Symposia with two other committee members

POSTER AND ORAL PRESENTATIONS

First International Symposium on Physicochemical and Microbiological food Analysis and VIII Applied Chemistry Symposium

Oral presentation

“Identification of Constituent Organic Acids of Resin Glycosides from Three *Ipomoea* Genre Species (Convolvulaceae)”

September 27th – 29th, 2017

Metropolitan Conventions Center. Armenia, Colombia

X National Meeting of Research on Infectious Diseases

Poster presentation

“In Silico Evaluation of the Interactions Between Curcumin, Desmethoxycurcumin and the Non-Structural Protein NS5 of Dengue Virus”

November 17th - 19th, 2016

Intercontinental Hotel. Medellin, Colombia

Second Colombian Congress on Biochemistry and Molecular Biology

Poster presentation

November 3rd - 5th, 2016
EAFIT University. Medellin, Colombia

“In Silico Evaluation of the Interactions Between Curcumin, Desmethoxycurcumin and the Non-Structural Protein NS3 of Dengue Virus”

VI Symposium on Chemistry

Poster presentation

“Microwave-Assisted Synthesis of Novel 1-Pyrazolyl-2-Phenyl-4-Aryliden-5-Imidazolones Derivatives”

October 31st - November 2nd, 2016
University of Valle. Santiago de Cali, Colombia

VII Applied Chemistry Symposium and I Colombian Symposium On Chromatography

Oral presentation

“Microwave-Assisted Synthesis of Novel 1-Pyrazolyl-2-Phenyl-4-Aryliden-5-Imidazolones Derivatives”

September 16th - 18th, 2015
University of Quindío. Armenia, Colombia

ADDITIONAL COURSEWORK

Certificate in University teaching

August 8th – November 27th, 2017
University of Quindío. Armenia, Colombia

SCHOLARSHIPS AND AWARDS

Fullbright Scholarship – Pasaporte a la Ciencia

September, 2019

SKILLS

Software skills

gaussview 5.0, gaussian09, chimera1.11cr, autodock tools, autodock vina, Chromeleon 7, ChemBio Draw and ACD spec manager

Chemical Instrumentation Techniques

Ultraviolet,, Infra-Red interpretation and High Performance Liquid Chromatography
Organic synthesis

Computer skills

Excel, PowerPoint, Word

PUBLICATIONS

- Osorio N, Charry PA, Rios Vásquez E, Castañeda Gómez JF. **Organic Acids of Resin Glycosides from Three *Ipomoea* Species (Convolvulaceae).** Journal Ion. 2018; **31**(1):55-58.