

# ALEXIS. K DAY

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## EDUCATION

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<b>PhD</b>	University of California, San Diego, Chemistry Advisor: Guy Bertrand	August 2020- Present
<b>BS</b>	Xavier University of Louisiana, ACS Chemistry Advisor: Lamartine Meda Graduated Magna Cum Laude Minored in Mathematics	August 2016-May 2020

## HONORS AND AWARDS

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Summer Training Academy for Research Success (STARS) Graduate Fellowship	2020
Clare Boothe Luce STEM Scholar	2019
NASA Solid High Energy Lithium Ion Battery (SHELiB) Scholar	2016

## RESEARCH EXPERIENCE

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Mechanochemical synthesis of LiNiOF as electrode for Li-ion battery Xavier University of Louisiana Advisor: Dr. Lamartine Meda <ul style="list-style-type: none"><li>• Experience in high energy ball milling</li></ul>	2020
Aminoketenes as Nucleophiles University of San Diego, California Advisor: Guy Bertrand <ul style="list-style-type: none"><li>• Investigated the nucleophilic potential of cyclic alkyl amino carbene derived aminoketenes</li><li>• Experience in air-free purification and extraction methods using a Schlenk Line</li></ul>	2019
Investigation of Li <sub>2</sub> OHCl Solid State Electrolyte and Interaction with Li Metal Georgia Institute of Technology Advisor: Dr. Gleb Yushin <ul style="list-style-type: none"><li>• Synthesized Li<sub>2</sub>OHCl in pellet form</li><li>• Experience in X-ray Photoelectron Spectroscopy (XPS)</li></ul>	2019
Nanostructured Nickel Oxide as an Anode in Lithium Ion Batteries Xavier University of Louisiana	2016-2018

Advisor: Dr. Lamartine Meda

- Synthesized NiO nanomaterials using a low pressure chemical vapor deposition (LPCVD) reactor
- Experience in Powder X-ray powder diffraction (XRD) and Field-Emission Scanning Electron Microscope (FSEM)

## PRESENTATIONS AND INVITED LECTURES

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**Oral Presentation:** Day A. "Aminoketenes as Nucleophiles". Presented at Summer Research Conference at UC San Diego, San Diego, California, August 8th, 2019

**Poster Session:** Day A., Gist-Reed L, Adkins A. "Nanostructured Nickel Oxide as an Anode in Lithium Ion Batteries". Presented ACS XULA Chapter Undergraduate Poster Session, New Orleans, Louisiana, March 20th, 2018

**Poster Session:** Day A., Gist-Reed L, Adkins A. "Nanostructured Nickel Oxide as an Anode in Lithium Ion Batteries". Presented at XULA 7th Annual Summer Research Symposium, New Orleans, Louisiana, July 17th, 2017

## PROFESSIONAL TRAINING

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International Tutor Training Program Certification  
College Reading and Learning Association (CRLA), Xavier University of Louisiana, 2019

## PROFESSIONAL AFFILIATIONS

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National Honorary Chemical Society ( $\Phi\Lambda\Upsilon$ ), 2019

Freshman Honor Society ( $\Lambda\Lambda\Delta$ ), 2017

National Society of Leadership and Success ( $\Sigma\Lambda\pi$ ) 2017

- IT Coordinator, Secretary and President of Xavier University Chapter 2017-2020

American Chemical Society, 2016

## COMMUNITY SERVICE

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### Atlanta Humane Society

Volunteer, Atlanta, Georgia, 2018

### Temecula Public Library

Tutor, Temecula, California, 2015-2016