

Jaysa Dartez

New Orleans, Louisiana | jaydar.31@outlook.com | (337) 592-2576 | [LinkedIn](#)

HONORS AND AWARDS

TOPS Scholarship Louisiana Government (2024-present) State academic scholarship for undergraduate tuition coverage based on strong academic performance and enrollment at an eligible in-state college, funded by the Louisiana state government.

Presidential Scholarship Xavier University of Louisiana (2024-present) Merit-based, academic scholarship that provides partial tuition for students recognized with previous records of excellent academic standing.

Research Assistant Energy Storage Research Alliance [ESRA] (2024-present) Nominated for an exclusive upperclassmen chemical engineering lab in recognition of advanced mathematics placements as a freshman.

EDUCATION

Xavier University of Louisiana (2024 - present) *New Orleans, LA*

- Major: Chemical Engineering | Expected graduation, May 2027
- **Relevant Coursework:** ENGR 1200: Introduction to Engineering; CHEM 2220: Organic Chemistry II; PHYS 1141: Physics II; MATH 2080: Calculus III; MATH 2530: Differential Equations

Cecilia Senior High School (2020 - 2024) *Breaux Bridge, LA*

- Rank: 3/231 | GPA: 3.90/4.00

PROFESSIONAL EXPERIENCE

Undergraduate Research Assistant Xavier University of Louisiana (October 2024 – present) *New Orleans, LA*

- Synthesized and characterized solid-state lithium-ion battery electrolytes to improve ionic conductivity and capacity retention. Contributed to group presentations, research papers, and scientific posters.

Summer Research Intern Xavier University of Louisiana (May 2025 - July 2025) *New Orleans, LA*

- Researched sodium-based electrolytes as an alternative to lithium systems, incorporating silicon and aluminum additives to improve efficiency. Synthesized and tested electrolyte formulations, assembled battery cells, analyzed data, and presented findings through reports and lab presentations.

Cashier/Barista Empanola (June 2025 - present) *New Orleans, LA*

- Support daily operations in a family-owned empanada shop located in a historic food district in the French Quarter. Prepare coffee and espresso drinks, serve alcohol and fountain beverages, and assist with salads and soups while delivering friendly customer service. Maintain a clean, welcoming environment and collaborate with team members to ensure smooth, efficient service in a fast-paced setting.

Cashier/Barista Sucre (September 2024 - May 2025) *New Orleans, LA*

- Support operations in a bakery by preparing coffee and espresso drinks, assisting customers, and helping maintain a clean, friendly environment. Work closely with team members to keep things running smoothly and provide a positive experience for guests.

CIVIC AND CULTURAL ENGAGEMENT

Community Volunteer Immaculate Conception Catholic Church (April 2016 - present) *Lebeau, LA*

Student Volunteer Xavier University of Louisiana (2024-present) *New Orleans, LA*

Festival Volunteer Breaux Bridge Crawfish Festival (May 2018; May 2019) *Breaux Bridge, LA*

Festival Volunteer Festival International de Louisiane (April 2017) *Lafayette, LA*

Community Volunteer New Kingdom Ministries International (November 2014 - February 2016) *Lafayette, LA*

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COMMUNITY ENGAGEMENT

Student Member XULA Chemistry Club (August 2024 - present)

New Orleans, LA

- Encourages and reinforces practical knowledge of Chemistry in everyday life through volunteering with local schools and educational events on campus.

Student Member XULA National Organization for the Professional Advancement of Black Chemists and Chemical Engineers [NOBCCChE] (August 2024 - present)

New Orleans, LA

- Supports diversity and professional growth in chemistry by participating in mentorship programs and networking opportunities for Black chemists and chemical engineers.

RESEARCH EXPERIENCE

Working Papers

- “Composite polymer electrolyte for all-solid-state batteries using inactive filler,” Princeton University [Undergraduate Research Webinar] (July 2025)
- “Composite polymer electrolyte for all-solid-state batteries using CPE+X%Al₂O₃,” Xavier University of Louisiana (November 2025)

SKILLS

Technical

- Electrolyte synthesis
- Glovebox operation (inert atmospheric handling)
- Battery cell assembly
- Origin data analysis
- Electrochemical testing
- Lab safety & hazardous materials handling

Software

- Origin
- Gamry Framework
- Microsoft Excel