

Carmen Ohio

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SUMMARY

Career-driven Ph.D. Biomedical Candidate interested in exploring career opportunities in Industry Research. Experienced performing and troubleshooting multiple laboratory techniques. Skilled in various procedures including H9c2 cardiomyoblasts, human-induced pluripotent stem cells, electrocardiography, immunoblotting, cell viability assay, and ROS assays. Software proficiency in Microsoft Word, PowerPoint, Excel, and GraphPad.

EDUCATION

The Ohio State University, College of Medicine, Columbus, OH

Expected: 05/2026

Ph.D., Biomedical Sciences Graduate Program (BSGP), anticipated March 2025

- **Thesis Title:** Investigating Cardiotoxic Mechanisms of Current Anti-Cancer Therapies
- **Advisor:** Dr. William Oxley Thompson, MD, MPH

Vanderbilt University, College of Humanities and Sciences, Nashville, TN

05/2019

Bachelor of Science in Biology | Minor in Chemistry, *Magna Cum Laude*

RESEARCH & LEADERSHIP EXPERIENCE

THE OHIO STATE UNIVERSITY, College of Medicine, Columbus, OH

2019-Present

Graduate Research Assistant (2019-Present)

- Research Goal: To understand the how clinically relevant chemotherapy drugs cause cardiovascular diseases in cancer patients
- Co-authored and co-led a team to publications of a book chapter and review paper related to cardio-oncology
- Mentored 6 undergraduate and 3 high school students on various research projects and assisted in university scholarships as well as conferences/symposiums and presentations
- Facilitated lab tours and presented cardio-oncology events for current and potential Ohio State donors
- Served as a student representative for BSGP events such as the Graduate and Professional Student (GPS) recruitment initiative, the Welker Scholars virtual meeting, and the NIH Virtual Fair
- Assisted with BSGP interview weekends by taking students to their interviews and sitting in luncheons with prospective students where they could ask questions about BSGP

Committee Member | Leadership Initiative for Women of Pride (2022-Present)

- Collaborated with undergraduate and graduate students and program leaders to plan a leadership retreat for underrepresented minority women students at The Ohio State University
- Brainstormed workshops and evening activities focused on the themes “Living a Phenomenal Life” (2023) and “Cultivating Challenges to Change” (2024)
- Constructed talking points for 2024 workshops, “Leveraging Your Corporate Career”, “Advocacy and Leadership Panel”, and “Strength and Self Beauty”

Secretary & Graduate Student Liaison | Graduate Student Mental Health Coalition (2022-2023)

- Brainstormed and organized special events that connected students to fellow peers and provided available resources to help with various types of mental health issues
- Served as the point of contact for female graduate students to connect with undergraduate students to share their experiences on taking care of their mental health in graduate school

Secretary & President | Blakely Graduate Research Society (2020-2023)

- Created and led “How to Persevere and Get Your PhD” where first year and post-bac students could learn the different stages of graduate school from panelists that represented different years
- Co-created and promoted two career discussion panels where graduate students could learn about different career paths from panelists with different careers

Secretary | Women in STEM (2018-2019)

- Organized events for black undergraduate STEM majors to connect with their peers
- Coordinated “Black Women in STEM Networking & Career Panel” which allowed undergraduates to connect and network with STEM professionals
- Promoted events to female undergraduates through student organization fairs, emails, and VU newsletters

Student Leader | Daily Planet Health Services (2017-2019)

- Collaborated with fellow students to research facts about Mexico and create a website to help physicians interact with Spanish-speaking patients at Daily Planet Health Services
- Proposed a plan that would help identify the needs of Spanish-speaking patients at Daily Planet Health Services and provided resources to help patients take care of themselves outside of the clinic

Program Participant & Graduate | VU Globe Program (2016-2018)

- Enrolled in classes and participated in co-curricular activities that focused on global education (Topics included: Globalization, culture-brokering, and intercultural communication)
- Participated in VU Globe sponsored events and parties and graduated with Peace Corps Prep Certification

PUBLICATIONS

Davis S, **Ohio C**, Abboud G, Brennan L, Zifer E, Groth MW, Workman LE, Kade PS, Craig J. Acute Exposure to Electronic Cigarette Components Alters mRNA Expression of Pre-Osteoblasts. 2024 [Submitted to Federation of American Societies for Experimental Biology]

Schott SS, Schwarber EJ, **Ohio C**, Mizer H, Derker MH, Towarnicky SS, Malvern N, McCoy MB, Kade IV, Kyler AN, Statham R, Wallace KJ, Ruiz I, Abel M, Hoffmann M, Xu A, Adler D, Moer PJ, Hunt TJ, Ho TS, Smith A. Impact of Stress on Pazopanib-Induced Cardiac Dysfunction. 2024 [Submitted to Heart Rhythm]

Schott S, Mangold J, Schwarber EJ, Alfee M, Maerkso A, Towarnicky S, Peters M, Malvern N, **Ohio C**, Drybala M, Totsch J, Geier SM, Smith S. Loss of Cardiomyocyte β II-Spectrin Promotes Cardiac Dyad Dysfunction, Alterations in Ca²⁺ Signaling and Accelerated Heart Failure Amendable to Diltiazem Therapy [Submitted to Journal of Clinical Investigation]

Oswald, **Ohio C**, Arnold S, Carter F, Greene S, Smith S, Adler D, Quinn D, Blakely M. Health Equity in Cardio-Oncology: Investigating Mechanistic Causes Behind Adverse Cardiovascular and Cancer Health. 2024 [Accepted in Current Treatment Options in Cardiovascular Medicine]

Stephens A, Schott SS, **Ohio C**, Brick N, Nord A, Weber A, Gustav S, Paige N, Penrod N, Smith SA. Atrial Fibrillation in Cancer and Anticancer Therapy: Is there a Role for SGLT2 Inhibitors? 2024 [Submitted to Journal of Molecular and Cellular Cardiology]

HONORS & AWARDS**THE OHIO STATE UNIVERSITY, College of Medicine, Columbus, OH**

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| • Cardiovascular Predoctoral NIH T32 Training Fellowship (Cardio Predoc) | 2023-Present |
| • American Heart Association (AHA) Predoctoral Fellowship | 2021-2023 |
| • The Ohio State University Graduate Enrichment Fellowship | 2019-2020, Present |

VIRGINIA COMMONWEALTH UNIVERSITY, College of Humanities and Sciences, Richmond, VA

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| • Black History in the Making Award | 2019 |
| • VU Charles and Leann Blem Scholarship in Biology | 2018-2019 |
| • Goldwater National Scholarship - Honorable Mention | 2018 |
| • Dean's List | 2015-2019 |
| • Elks Club Academic Scholarship | 2015 |
| • Perry Track Club Academic Scholarship | 2015 |
| • Vanderbilt Scholars Award | 2015 |
| • 100 Black Men National Scholarship | 2015 |