

Julia C. Catalano

UNDERGRADUATE · NEUROSCIENCE

1595 N High St, Columbus, OH 43210

☎ (443) 566 - 0342 | ✉ juliacatalano.23@gmail.com | 🏠 juliacatalano.codes | 📱 juliacat23 | 🌐 jcatalano23

Education

The Ohio State University

Expected: December 2021

B.S. IN NEUROSCIENCE | CELLULAR & MOLECULAR SPECIALIZATION

Major GPA: 3.77 · Cumulative GPA: 3.67

- **Major Coursework:** Advanced Behavioral Neuroscience, Behavioral and Molecular Biological Clocks, Cognitive Neuroscience, Molecular/Cellular Neuroscience, Neurodevelopmental Disorders, Neurophysiology, Psychopharmacology, Structure and Function of the Nervous System

Skills

Molecular Biology	Flow cytometry, PCR/RT-PCR, Genomic DNA extration, SDS-PAGE, Western blot
Cell Biology	Fluorescent microscopy, Cell proliferation assay, ELISA
Animal	Mouse handling, IP injections, Weaning, Anesthesia administration, CO ₂ euthanasia
Computer	Microsoft Office, Adobe Creative Cloud, Salesforce, HTML, CSS
Programming	Python, JavaScript, R, PostgreSQL

Research

Neuronal Stem Cell Lab | Dr. Elizabeth Kirby

Columbus, OH

THE OHIO STATE UNIVERSITY

May 2019 - August 2019

- Project Goals: Utilization of Bio-Orthogonal Non-Canonical Amino Acid Tagging (BONCAT) to investigate the tagging of proteins with the amino acid methionine substitute azido-nor-leucine (ANL), specifically in neural stem and progenitor cells
- Detected nascent hippocampal proteins
- Designed experiments to investigate cell-specific inducible knockdown of MetRS-ANL staining in vivo

Undergraduate Medical Research Program

Columbus, OH

THE OHIO STATE UNIVERSITY COLLEGE OF MEDICINE

April 2019 - April 2020

- Addressed communities impacted by disparities in healthcare access and other health outcomes caused by social determinants, implicit bias, and inadequate access
- Analyzed disparities in healthcare access in the local Columbus Ohio community

Community Outreach

College of Arts & Sciences Committee on Mental Health & Wellness

Columbus, OH

EXECUTIVE COMMITTEE

Oct. 2020 - Present

- Partnered with the Ohio State University Task Force on Suicide and Mental Health and Dean Advisory Council to develop mental health programming
- Engaged with faculty to develop in-class based training for instructors and mental health check-ins
- Made ongoing recommendations to college leadership regarding implementation of initiatives that have the broadest impact

Office of Student Academic Success

Columbus, OH

FYE PEER LEADER

April 2020 - April 2021

- Served as a resource and primary point of peer connection for approximately 300 students throughout their first year of college, providing ongoing intervention, referral and follow-up related to their transition needs
- Advocated for and supported priority students identified as potentially benefiting most from outreach, such as students of color, students who commute, first generation students and students from low income backgrounds
- Trained in student development, crisis management, and data-informed practice

Open Space

Middletown, DE

CO-FOUNDER

Sept. 2018 - Present

- Co-founded a student organization for high school students to engage in mental health discussion while also providing a safe environment
- Hosted a "Ending the Silence" presentation at Appoquinimink High School to over 300 students and staff
- Addressed the stigma surrounding mental illness, as well as identifying symptoms of mental illness and the appropriate resources

Mental Health Legislation

Dover, DE

ADVOCATE

Sept. 2018 - Jan. 2020

- Drafted legislature that proposes that Delaware public secondary schools have mandatory mental health classes and awareness programs
- Assisted in creating a position within the Delaware Department of Education dedicated to mental health curriculum changes
- expanded the Mental Health Opportunity Grants program, providing more than 15 million dollars to the expansion of mental health curricula, including the development of trauma-informed support for low-income and marginalized students

Office of Diversity & Inclusion

Columbus, OH

MORRILL SCHOLAR

Jan. 2018 - Present

- Devoted to addressing disparities in higher education and advocating for social change
- Participated in professional development workshops to strengthen understanding of discrimination and other implicit biases

Leadership

Mortar Board

Columbus, OH

VICE PRESIDENT OF MEMBERSHIP

March 2021 - Present

- Represented the Mable G. Freeman chapter at the 2021 National Leadership Conference
- Worked with the President and Vice President of Major Events to organize social events to strengthen the relationship among members
- Served as chair of the membership committee, which functioned as a liaison between the executive board and general members

Nu Rho Psi

Columbus, OH

MARKETING CHAIR

February 2021 - Present

- Generated interest in Nu Rho Psi within the neuroscience major to encourage new members to join
- Created and distributed promotional materials to inform members about events and meetings

Teaching Experience

Biology 1113

Columbus, OH

UNDERGRADUATE TEACHING ASSISTANT

July 2021 - Dec. 2021

- Instruct a weekly 3-hour laboratory section, which includes a 1-hour recitation and 2-hour lab activity
- Grade laboratory assignments and provide feedback
- Facilitate student learning through engagement during lecture, lab, and office hours

MD Camp

Columbus, OH

STUDENT INSTRUCTOR

June 2019

- Conducted journal club meetings, with a focus on implicit-bias research and medical education
- Emphasized critical thinking skills for reading and comprehending scientific literature
- Contributed to increasing the recruitment and retention of minority students interested in medicine

Presentations

Catalano, J. (2019). *Addressing the health disparities of African American collegiate football players in the Southeastern Conference*. Presented at the Ohio State Summer Research Symposium, Columbus, OH.

Honors & Awards

2021	1st Place Recipient , ORISE Undergraduate Challenge	\$5,000
2021	Mortar Board , Senior Honor Society	
2020	Nu Rho Psi , Honor Society in Neuroscience	
2019	Summer Research Experience , OSU College of Medicine	\$4,000
2017	Morrill Scholarship , OSU Office of Diversity & Inclusion	\$128,000