

JACKSON PIERCE STUDENT

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Skills

PROGRAMMING

JavaScript
Node.JS
Python

LANGUAGE

English (Native)
Japanese (3 College Semesters)

DESIGN

Inkscape
Affinity Designer

Education

Centre College
B.S. Biochemistry and Molecular Biology 2023

Aug. 2019 to May 2023

Walden High School
High School Diploma 2019

Employment

Purdue University
Research Technician
June 2023 to Current
Working in the laboratory of Dr. Kyle Cottrell to determine the therapeutic potential and role of ADAR1, PKR, DHX9, and STING in triple negative breast cancer in both ADAR-dependent and ADAR-independent cell lines using modern biochemical approaches such as cloning, cell culture, immunohistochemistry, and transfection.

Purdue University
NSF REU Researcher
West Lafayette, IN
June 2022 to Aug. 2022
I worked in the laboratory of Joe Ogas studying the CHD3 ATP-dependent chromatin remodeling protein PICKLE in Arabidopsis thaliana. My responsibilities included culturing and growing plants using sterile technique, isolating and extracting DNA, performing PCR & gel electrophoresis, and using transgenic and amiRNA approaches to characterize chromatin remodeler interactions.

Centre College
NIH Undergraduate Researcher
Centre College
June 2021 to Aug. 2021
Working to redesign/develop lab curriculums and teaching methods for genetics. Focusing on BIO 210: Intro to Genetics and BMB 335: Molecular Genetics. My responsibilities included molecular cloning, cell culture of E. coli, designing primers, and performing PCR/gel electrophoresis, plasmid purification, and enzyme restriction digestions.

Centre College
Undergraduate Researcher
Danville, KY
June 2021 to Aug. 2021
Working to isolate cortisol from polar bear, elephant, and grizzly bear hair provided by the Louisville Zoo. My responsibilities involved processing and sorting hair samples into a fine powder, isolating cortisol, and running enzyme assays to measure cortisol levels for comparison to blood/fecal levels.

Centre College
Biochemistry Peer Tutor
Danville, KY
Feb. 2022 to Current
Working as a peer tutor in the biochemistry and molecular biology department for students in BMB 210 at Centre College.

Awards

Phi Beta Kappa
May 2023
Phi Beta Kappa is the oldest and most respected undergraduate honors organization in the United States, recognizing undergraduate juniors and seniors for scholarly achievement in the liberal arts and sciences and broad cultural interests.

Purdue University REU Recipient
May 2022
One of the National Science Foundation funded research experience for undergraduates. The Purdue University REU: Genetic and Biochemical Analysis of Proteins accepted me to their program for the summer of 2022. This is a competitive program that will teach fundamental skills relevant to a career in scientific research.

Activities

Centre Gaming Club · President
Spring 2021 to Spring 2023
President of the Centre College Gaming Club. Previously Vice President for the 2020-2021 school year.

Japanese Club · Member
Sept. 2020 to Current

International Student Association (ISA) · Member
Aug. 2021 to Current

Volunteer Work

The GLADYS Project · Volunteer
Feb. 2023 to May 2023
Coordinated an awareness campaign and volunteered at the GLADYS Project. This is a project designed to improve literacy in pre-primary school-aged children through 1 on 1 reading. This program is targeted towards lower-opportunity families who otherwise may not have access to early childhood education.

Centre College After School Program · Tutor
Feb. 2023 to May 2023
A volunteer tutor to elementary school-aged children for 2-4 hours a week. This role included working with children on education activities such as math games, crosswords, flash cards and recreational time after work was finished.

Norton Hospital · Pediatric E.R. Volunteer
2017 to 2019

Catholic Charities of Louisville: Migration and Refugee Services · Volunteer
2019 to 2020