Zachary Miller

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# Education

## Bachelors Degree Candidate, The Ohio State University • May 2021

Majoring in Molecular Genetics on the pre-medical track.

## Associate Degree of Science, Edison State Community College • May 2018

Took classes in anatomy and physiology, evolutionary and genetic biology, zoological and ecological biology, and human biology.

## Honors Diploma, Greenville Senior High • May 2018

Graduated magna cum laude with honors diploma and presidential award. Took college level courses through College Credit Plus program after finishing core curriculum.

# Applicable Skills

## Research Skills

Experienced in confocal microscopy, fluorescent microscopy, microfluidics, cellular transformation, DNA preparation using PCR, biomolecular fluorescence complementation, reactive-ion etching, microscopic identification of human tissue, anatomical dissection, ELISA assay, and DNA electrophoresis.

# Awards and Acknowledgements

## Perfect Score from Judges, Two Special Achievement Awards • The Ohio Academy of Science - State Science Day

Presented project based on barley’s effect on cyanobacteria in a poster session during Science Day.

## Scholarship • The Ohio State University

Earned the Trustees Scholarship to The Ohio State University based on GPA and Class Rank.

## Scholars Program • The Ohio State University

Got accepted into the Biological Scholar’s program at The Ohio State University

## Honor Society • The Ohio State University

Was accepted into the Helix BBB biological honor society at The Ohio State University

# Work Experience

## Doctor Hay-Oak Park’s Molecular Genetics Research Lab (Columbus, Ohio)

### Undergraduate Research • September 2018-Current

Performed research on the interaction of Rho5 during cellular stress. Research provided experience in the usage of biomolecular fluorescence complementation, cellular transformation, confocal and fluorescent microscopy, and microfluidics.

## Anderson Ethanol (Greenville, Ohio)

### Seasonal Help • May 2018-August 2018

Daily clean-up and maintenance while ensuring safety of staff and personnel by providing fire watch and attending for confined space entry. Used heavy machinery and air quality monitors. Volunteered in the lab as time allowed.