

Chloe Jones

924 Glenmoor Dr Oxford, MI 48371 (248) 520-9345 jones390@msu.edu

-----Summary-----

Enthusiastic student at Michigan State University studying Genetics and Molecular Genomics, graduating August 2020.

-----Education-----

Michigan State University / East Lansing, MI May 2020
Bachelor of Science Degree in Genetics and Molecular Genomics - Lyman Briggs College
Cumulative GPA 3.71 – Dean's List

Oxford High School / Oxford, MI May 2017
Cumulative GPA 4.0 – Summa Cum Laude
National Honor Society
Graduated in Top 5% of class

-----Employment-----

Thompson Lab April 2018- Present

Michigan State University, Plant, Soil, and Molecular Sciences/ East Lansing, MI

- Assisted with projects related to maize genetics
- Gained communication collaboration skills
- Improved Microsoft Office skills through various analytical tasks
- Currently working on my own project working studying the genetic factors of anthocyanin pigmentation in maize
- Spent time working independently on delegated tasks
- Performed data collection and analysis

Server April 2018- July 2018

Kellogg Catering/ East Lansing, MI

- Served customers at various catering events
- Organized decorations, serving platters, and dishware in an orderly and timely fashion
- Worked as a part of a larger team
- Learned to adapt to a variety of situations and handle them innovatively

In-shop Sandwich Maker March 2017 – August 2017

Jimmy Johns / Oxford, MI

- Exemplified outstanding customer service
- Illustrated useful teamwork skills through communicating with staff about improvements
- Learned to be detail-oriented by cash handling and daily paperwork
- Had to be flexible with work schedule/hours

-----International Exposure-----

Puebla, Mexico May 2016

- Studied abroad in Puebla, Mexico during high school
- Obtained hands on experience practicing Spanish language skills
- Explored the culture through tours and living with a Mexican Family
- Attended two weeks at a Mexican high school

-----Research Experience-----

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Thompson Lab

April 2018 - Present

Principal Investigator: Dr. Addie Thompson, Ph.D.

- Conducted research on how different maize genotypes grow in different environments
- Conducted research on presence-absence variation and how this impacts B73 and Mo17 maize lines
- Conducted research on anthocyanin pigmentation using transposon mutagenesis in maize lines
- Utilized laboratory skills such as primer design, various plant DNA extraction methods, polymerase chain reaction, and gel electrophoresis
- Presented research at the Corteva-PBGB-NRT Impacts Symposium in 2019

MMG 408 Advanced Microbiology Lab

August 2019- December 2019

Supervisor: Dr. Kazem Kashefi, Ph.D.

- Thoroughly studied the lac operon using ONPG and IPTG assays
- Used transposon mutagenesis to create mutants in *Pseudomonas putida* that were unable to metabolize levulinic acid. These mutants were then sequenced to determine the genes involved in this acid's metabolism
- Studied the CRISPR-Cas system as a mechanism of adaptive immunity in *Streptococcus thermophilus*

MMG 302 Introductory Laboratory for Health Microbiology

January 2019 – May 2019

Supervisor: Dr. Dennis Arivdson, Ph.D. and Dr. Poorna Viswanathan, Ph.D.

- Practiced vital microbiology laboratory techniques such as proper sterility, inoculation of plated media and broth, gram staining, microscopy, sequencing and phenotypic testing
- Performed laboratory tasks throughout the entirety of the semester such as DNA extraction, PCR, Gel electrophoresis, and PCR clean up
- Compared BLAST sequences to Sanger Sequencing results

-----Volunteering-----

Medical Surgery Unit Volunteer

Sparrow Hospital / Lansing, MI

January 2020-Present

- Interacted with patients through conversing, listening, playing games, and participating in various activities
- Helped patients access their medical charts if needed

-----Extracurricular Activities-----

- Slow food MSU 2018
- Students, Allies and Survivors Speak 2017-2018