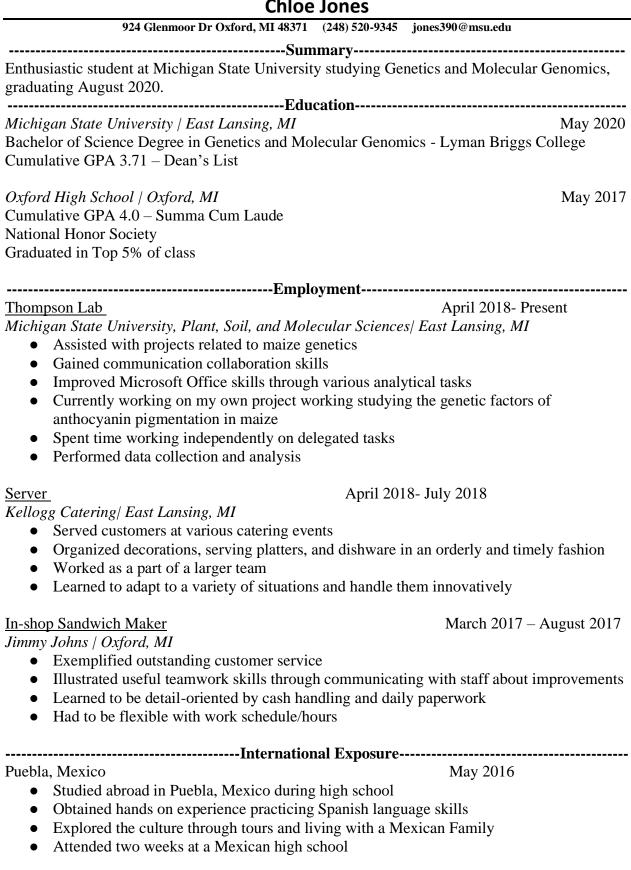
Chloe Jones



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

Chloe Jones

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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