

# Lillian Jensen, MPH(c)

Grand Rapids, MI • (616) 634-4191 • [jensenl7@msu.edu](mailto:jensenl7@msu.edu) • [Portfolio](#) • [LinkedIn](#)

## EDUCATION

---

Master of Public Health, Epidemiology	Michigan State University	April 2024
Bachelor of Science, Microbiology	Michigan State University	May 2014

## PROFESSIONAL EXPERIENCE

---

Communicable Disease Surveillance Analyst Dec. 2023 – Present  
*Kent County Health Department (Privately Contracted)* 10 hrs/week

- Evaluated and improved surveillance data reporting procedures in collaboration with the county Communicable Disease Epidemiologist.
- Provided data dashboard engineering and support services to enhance surveillance data dissemination in the community.

Communicable Disease Surveillance Intern Apr. 2023 – Sept. 2023  
*Kent County Health Department* 20 hrs/week

- Led a Quality Improvement initiative to modernize surveillance data sharing.
- Increased report-building efficiency by 94% through the engineering of an automated data management software tool.
- Designed an interactive and intuitive data dashboard to promote the efficacy of surveillance data reporting.
- Conducted disease surveillance case investigations via phone interviews and MDSS charting.

## RESEARCH EXPERIENCE

---

MPH Integrative Learning Experience Project Spring, 2024

- Created a predictive model of Influenza-Like Illness in Kent County, MI, using heterogeneous internet data streams with traditional syndromic surveillance data

MPH Applied Practice Experience Project Summer, 2023

- Examined the impact of data dashboarding and automation on operational efficiency in local public health

MPH Applied Epidemiologic Methods Project Spring, 2022

- Executed novel research examining the relationship between climate change and rising Lyme incidence in Michigan
- Created database of county-level climatic indicators for Michigan over a 20-year period
- Presented findings at the 2022 APHA Annual Meeting & Expo and published in the Journal of Student Research.

Research Technician Oct. 2011 – Feb. 2015  
*MSU Department of Microbiology & Molecular Genetics* 30 hrs/week

- Identified infectious agents in human specimens, using culture, isolation, and PCR.
- Increased bioinformatics analysis efficiency by 35% by programming an automated data pipeline using Python.
- Described over 2,300 unique gut microbes by engineering a Most Probable Number isolation technique and PCR barcoding scheme to pool for NextGen sequencing.
- Modelled nosocomial *C. difficile* infection by challenging anaerobic microbioreactors containing human fecal cultures with antibiotics and *C. diff*.

## ADDITIONAL EXPERIENCE

---

Managing Editor Nov. 2022 – Aug. 2023  
*MSU C. S. Mott Department of Public Health* 8 hrs/week

# Lillian Jensen, MPH(c)

Grand Rapids, MI • (616) 634-4191 • [jensenl7@msu.edu](mailto:jensenl7@msu.edu) • [Portfolio](#) • [LinkedIn](#)

- Coordinated the production of the MPH Student Newsletter
- Increased readership by 15% through analytics-driven design adjustments.

## PUBLICATIONS / PRESENTATIONS

---

**Jensen, L.** (2023). Climate Change: A Ticking Lyme Bomb. *Journal of Student Research*, 12(3).

<https://doi.org/10.47611/jsr.v12i3.1986>

**Jensen, L.** (2022). Climate Change: A Ticking Lyme Bomb [poster presentation]. APHA 2022 Annual Meeting & Expo.

<https://LillianJensen.com/apha-poster/>

**Jensen, L.** (2013). Characterization of the Human Gut Microbiome [poster presentation].

## PROJECTS

---

Software Developer

May 2023 – Present

*Practicum deliverable* – Epi\_Helper: An automated data pipeline to preprocess surveillance data

- Increased the efficiency of communicable disease reporting by assisting with data queries, cleaning & preprocessing, and visualization using Python and PowerBI.

## CERTIFICATES

---

Practicing Public Health in Region V Community of Practice

Aug. 2023

*Region V Public Health Training Center*

Professional Certificate in Advanced Data Analytics

Aug. 2023

*Grow with Google x Coursera*

Professional Certificate in Business Intelligence

Aug. 2023

*Grow with Google x Coursera*

Professional Certificate in Data Science

Oct. 2022

*IBM Skills Network x Coursera*

Navigating a Foodborne Outbreak: Preparation for Interprofessional Practice

Dec. 2021

*CDC Academic Partnerships to Improve Health*

## TECHNICAL SKILLS

---

- Python
- Jupyter Notebook
- R, RStudio
- PowerBI
- SQL
- Git/GitHub
- Microsoft Office
- SPSS
- Clipchamp
- Photoshop
- Mailchimp

## LEADERSHIP EXPERIENCE

---

Elected Executive Student Representative

Feb. 2023 – Aug. 2023

*MSU Charles Stewart Mott Department of Public Health Executive Committee*

Co-creator & Lead Organizer

July 2013 – July 2019

*DangerZone: A Community Health Harm-Reduction Initiative*

- Developed and implemented a community health initiative to reduce the risks of various unsafe health behaviors by building grassroots harm reduction capacity in the community.
- Facilitated social behavior change through health education and community engagement.
- Built safe spaces to provide peer-to-peer support and acute, needs-based aid.
- Prevented and reduced overdose by providing substance testing services.

# Lillian Jensen, MPH(c)

Grand Rapids, MI • (616) 634-4191 • [jensenl7@msu.edu](mailto:jensenl7@msu.edu) • [Portfolio](#) • [LinkedIn](#)

## AWARDS / HONORS

---

- Student Support & Training Scholarship, C.S. Mott Department of Public Health, MSU, 2023
- CoP Membership & Funding, Region V Public Health Training Center, 2023
- Conference Presentation Scholarship, NIEHS, APHA 2022
- Acknowledgement in Research Publication: *Cultivation of stable, reproducible microbial communities from different fecal donors using minibioreactor arrays (mbras)*, 2015
- Research Fellowship, UBM: Integrated Analysis of Genetic and Cellular Networks, 2011

## MEMBERSHIPS / AFFILIATIONS

---

- MSU MPH Student Advisory Board
- American Public Health Association  
Volunteer Abstract Reviewer; *Environment Section, Epidemiology Section, Student Assembly*
- U-M Injury Prevention Center
- Kent County Health Equity Council
- National Society of Collegiate Scholars, Alumni Member