

# Lillian M Jensen, MPHc

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

---

## SUMMARY

Five years of experience in collecting, analyzing, and interpreting scientific data | Expertise in working with public health information systems and technologies | Proven experience building work products related to data visualization, statistical programming, and data management | Certified Business Intelligence specialist

## EDUCATION

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

## PROFESSIONAL EXPERIENCE

**Communicable Disease Surveillance Intern** April 2023 – Present

*Kent County Health Department*

- Currently providing ongoing technical support to health department staff on the use of data management software and dashboard tools
- Spearheaded a Quality Improvement initiative to modernize surveillance data sharing
- Increased report-building efficiency by 94% by engineering an automated data management software tool
- Promoted the usefulness and useability of surveillance data reporting by designing an interactive and intuitive data dashboard
- Conducted disease surveillance case investigations via phone interviews and MDSS charting

**Managing Editor** Nov. 2022 – Aug. 2023

*MSU C. S. Mott Department of Public Health*

- Coordinated the production of the MPH Student Newsletter, using Mailchimp, Photoshop, and other web marketing and design tools.
- Managed multiple concurrent tasks, including topic selection, newsletter layout, content solicitation, and writing/proofreading/editing content.
- Increased readership by 15% by analyzing click analytics and adjusting design accordingly.
- Coordinated with content writers to ensure writing deadlines are met for timely publication.
- Organized committee meetings as needed to coordinate newsletter development.

**Research Technician** Oct. 2011 – Feb. 2015

*MSU Department of Microbiology & Molecular Genetics*

- Identified infectious disease-causing agents in human specimens, using microbial culture, isolation, and PCR.
- Increased bioinformatics analysis efficiency by 35% by programming an automated data pipeline tool using python.
- Adhered to BSL-2 aseptic technique best practices to reduce the risk of contamination of or exposure to potentially disease-causing microbes and agents.
- Promoted the synthesis of meaningful genomics insights by creating and maintaining microbial genomics databases

# Lillian M Jensen, MPHc

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

---

## PROJECTS

### Software Developer

May 2023 – Present

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

- Increases the efficiency of communicable disease reporting by assisting with MDSS queries and cleaning & preprocessing output csv data files and piping into a PowerBI data dashboard

### Author

May 2022

*Applied Epidemiologic Methods coursework - Climate Change: A Ticking Lyme Bomb*

- Plan data collection using python to extract, transform, and load secondary data into appropriate data structures to prepare for analysis and visualization.
- Designed novel research study to use machine learning to model the relationship between Lyme Disease and climate change in the State of MI over a 20-year period.

## 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*

## PRESENTATIONS

### Climate Change: A Ticking Lyme Bomb

Nov. 2022

*American Public Health Association Annual Meeting & Expo, Boston*

- Presented an econometric model of the relationship between climate change and rising Lyme incidence in the state of Michigan over a span of 20 years.

### Characterization of the Human Gut Microbiome

May 2013

*Michigan State University Undergraduate Research and Arts Forum*

- 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 human fecal cultures with antibiotics and *C. diff* in anaerobic microbioreactors.

## RELEVANT COURSEWORK

- Epidemiology I/II
- Biostatistics
- Outbreak Investigations
- Microbial Pathogenesis
- Calculus I/II/III
- Linear Algebra
- Calculus I/II/III
- Linear Algebra
- Health Equity in Public Health Practice
- Community Engagement in Public Health Practice
- Study Design and Research Methods

# Lillian M Jensen, MPHc

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

---

## TECHNICAL SKILLS

- Python (pandas, scikit-learn, scipy, seaborn, matplotlib, tkinter)
- Jupyter Notebook
- R, RStudio
- Visual Studio Code
- Basic HTML/CSS
- PowerBI (DAX, Power Query)
- SQL/Postgres
- 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 DangerZone, a community health initiative utilizing capacity-building harm-reduction best practices to reduce the risks of various risky health behaviors.
- 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.

## 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

## 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**