

# LUKE CARL JORGENSEN

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## SUMMARY

Public health professional with experience in epidemiological surveillance, biostatistical analysis, and pharmacology. Skilled in R and SAS, with a strong foundation in clinical trials, data visualization, and regulatory compliance. Adept at translating complex data into actionable insights for research and public health practice.

## EDUCATION

<b>Purdue University</b> , West Lafayette, Indiana	Expected graduation, December 2025
• Master of Public Health in Biostatistics (4.0 GPA)	

<b>Purdue University Northwest</b> , Hammond, Indiana	December 2023
• Bachelor of Science in Integrative Human Health, Minor in Sociology (3.8 GPA)	

## SKILLS

• <i>Technical &amp; Programming</i> : R · SAS · SPSS · Quarto · SQL · Markdown · MS Suite
• <i>Data Science &amp; Analytics</i> : Statistical Analysis Plans · Study Design · Scientific Writing · Survey Design · Predictive Modeling · Data Cleaning · Data Visualization · Statistical Programming
• <i>Public Health &amp; Research</i> : Clinical Trials · Epidemiological Research · NIH Toolkit · Regulatory Compliance · Human Subject Research · Grant Writing
• <i>Tools &amp; Platforms</i> : RedCap · NBS · Epic Medical · GIS · Kanban · Scrum

## CERTIFICATES

• Google Project Management Certificate	January 2025
• Statistical Analysis with R for Public Health Specialization, Imperial College London	August 2023
• Social Behavioral Research Investigators and Key Personnel, CITI	July 2022
• Responsible Conduct of Research, CITI	July 2022
• Certified Pharmacy Technician (CPhT), PTCB ( <i>Currently licensed in Illinois and Indiana</i> )	December 2021
• Business Leadership MicroMasters, University of Queensland	November 2020

## PROFESSIONAL

<b>Viral Hepatitis Student Investigator</b> Indiana Department of Health (IDOH)   Internship (~35 hrs/week)	May 2024 to Present
• Conducted over 400 case investigations for acute and chronic viral hepatitis using medical record search and direct provider/patient interviews; documented findings in RedCap and NBS.	
• Created and merged cases for longitudinal tracking; generated weekly reports and coordinated with local health departments and private sector partners.	
• Attended interdisciplinary seminars and field visits (e.g., IN-PEP graduation at Putnam County Jail) to deepen understanding of public health systems.	

<b>Medication Reconciliation Technician</b> Franciscan Health, Munster, Indiana (PRN)	May 2022 to October 2024
• Interviewed newly admitted patients to document pharmaceutical history and educate on medication adherence strategies, including affordability, side effects, and misuse prevention.	
• Coordinated with providers, pharmacies, and insurers to ensure accurate documentation in Epic Medical, supporting continuity of care and compliance.	

<b>Pharmacy Technician II</b> Franciscan Health, Munster, Indiana (PRN)	May 2022 to October 2024
• Prepared IV piggyback admixtures in a laminar flow hood using aseptic technique; served as secondary quality control for medical orders.	

- Managed medication inventory, expiration tracking, and regulatory documentation to ensure compliance with healthcare standards.

### **Senior Pharmacy Technician**

Walgreens, Calumet City, Illinois

August 2021 to May 2022

- Managed inventory and patient care in a high-volume pharmacy, ensuring timely and accurate medication dispensing.
- Resolved insurance-related issues to facilitate uninterrupted access to prescribed treatments.
- Administered and documented intramuscular vaccinations in compliance with pharmacy protocols.

### **Sous Chef**

The Royal Mail Hotel, Dunkeld, VIC, Australia

March 2019 to July 2021

- Led an international culinary team in a high-pressure fine dining environment, managing menu development, sanitation, and budgeting across concurrent projects.
- Delegated tasks and coordinated operations to meet strict deadlines, fostering team cohesion and project success.

## **RESEARCH**

### **Northern Lake County Environmental Partnership**

May 2025 to Present

Mentor: Ellen Wells, PhD, Associate Professor, Department of Public Health, Purdue University

- Supported an NIH-funded study examining neurological, biological, and environmental impacts of heavy metals and PFAs in northern Lake County, Indiana.
- Administered informed consent, demographic surveys, and NIH toolkits to human research participants.
- Contributed to abstract submissions and poster presentations for academic and public health audiences.

### **Indiana Foreign-Born Chronic Hepatitis B Virus (HBV) Report**

January 2025 to May 2025

MPH Practicum, Division of HIV/STI/Viral Hepatitis, IDOH

- Authored a statewide HBV report analyzing prevalence among Indiana's foreign-born population using ACS census and IDOH surveillance data. Presented internally for audience of 50+ colleagues.
- Applied imputation techniques for missing country-of-birth data; conducted statistical analysis and GIS mapping in R. Published findings using Quarto.

### **Research Assistant**

November 2022 to November 2023

Mentor: Mita Choudhury, PhD, Professor, Department of English, Purdue Northwest

- Designed and completed an independent study course on scientific writing in environmental public health.
- Supported grant writing, faculty coordination, and study abroad planning focused on sustainability in London.

## **VOLUNTEER**

### **Lafayette Transitional Housing Center, Kitchen Volunteer**

February 2024 to Present

### **AMWA Indiana-Michigan Chapter, Membership Resources Chair**

December 2023 to August 2024

## **MEMBERSHIPS**

Honors Society of Phi Kappa Phi

Phi Alpha Theta History Honors Society

Council of State and Territorial Epidemiologists (CSTE)

International Society of Pharmacoepidemiology (ISPE)