

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

- Purdue University**, West Lafayette, IndianaExpected graduation, December 2025
 - Master of Public Health in Biostatistics (4.0 GPA)
- Purdue University Northwest**, Hammond, IndianaDecember 2023
 - Bachelor of Science in Integrative Human Health, Minor in Sociology (3.8 GPA)

SKILLS

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

CERTIFICATES

- Google Project Management CertificateJanuary 2025
- Statistical Analysis with R for Public Health Specialization, Imperial College LondonAugust 2023
- Social Behavioral Research Investigators and Key Personnel, CITIJuly 2022
- Responsible Conduct of Research, CITIJuly 2022
- Certified Pharmacy Technician (CPhT), PTCB (*Currently licensed in Illinois and Indiana*)December 2021
- Business Leadership MicroMasters, University of QueenslandNovember 2020

PROFESSIONAL

- Viral Hepatitis Student Investigator**May 2024 to Present

Indiana Department of Health (IDOH) | Internship (~35 hrs/week)

 - 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.
- Medication Reconciliation Technician**May 2022 to October 2024

Franciscan Health, Munster, Indiana (PRN)

 - 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.
- Pharmacy Technician II**May 2022 to October 2024

Franciscan Health, Munster, Indiana (PRN)

 - 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

August 2021 to May 2022

Walgreens, Calumet City, Illinois

- 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

March 2019 to July 2021

The Royal Mail Hotel, Dunkeld, VIC, Australia

- 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)