

Curriculum Vita

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- 2018 - 2023 *Doctor of Philosophy – Epidemiology & Biostatistics*
University of Kentucky
Lexington, Kentucky
- 2016 - 2018 *Masters of Public Health – Epidemiology*
University of Louisville
Louisville, Kentucky
- 2011 - 2014 *Bachelor of Science, Microbiology & Molecular Genetics*
Michigan State University
East Lansing, MI
- 2007 - 2010 *Bachelor of Science, Psychology*
University of Maryland, Asia
College Park, MD

Professional Research & Work Experience

- 8/2022 – Current Staff Epidemiologist – Center for Innovation in Public Health
- 8/2018 – 5/2022 Teaching Assistant – College of Public Health, University of Kentucky

Taught epidemiology courses for undergraduate and graduate students.
Guided students in biostatistical and spatial analysis, statistics
programming, and research writing.
- 5/2021 – 8/2021 Researcher – College of Public Health, University of Kentucky

Investigated the validation of Single Molecule Analyzer (SIMOA) data for
the cognitively impaired.
- 3/2020 – 9/2020 Public Outreach Covid Presentations
Over the course of the year gave numerous presentations to groups
answering questions related to the Covid-19 and pandemic safety.
- 5/2019 – 8/2019 Researcher – College of Public Health, University of Kentucky

Investigated spatial patterns of child neuroblastoma in eastern Kentucky
over a 15-year period.

- 5/2018 – 8/2018 Data Analyst – General Electric
- Planned, organized, and managed data collection for logistics operations. Integrated data collection and analysis methods into workflow processes.
- 8/2016 – 9/2017 Researcher – Greater Louisville Project
- Build capacity of GLP by developing and implementing data collection and analysis processes. Aide in GLP and outreach organization increased data analysis, use, and presentation of education and economic opportunity data to better inform policy decisions and creation.
- 2/2016 – 6/2016 Research Associate – Optum Epidemiology
- Plan, organize and manage data collection aspects of assigned chart abstraction or survey research activities
- Act as a primary liaison for study team members and third parties (vendors, consultants, patients, and providers) for project questions. Maintain and communicate project timelines and status reports with internal project team members, vendors, and external consultants. Lead and execute assigned project activities including consultant and vendor management, contracting, invoicing, and data management. Submit studies for internal and external approvals (e.g., health plan, Institutional Review Board, Privacy Board, Compliance, National Death Index). Assist in development of informed consent forms, data collection materials, and third-party vendor/consultant training materials including the design and management of large-scale databases and worked with epidemiologists and analysts in creating statistical models for epidemic prediction and determination of relationships. Support Epidemiologists and Project Managers with additional related tasks as needed (e.g., literature searches, formatting deliverables, meeting minutes, archiving)
- 8/2015 – 1/2016 Junior Researcher – Terumo
- Created a database for the management of research materials for Terumo. Conducted federally funded biomedical research for efficiency and quality control purposes.
- 6/2014 – 7/2015 Researcher – University of Illinois-Urbana Champaign
- Worked as a researcher on an investigative study of white nose bat syndrome by soil and microbial analysis. Coordinated with a team the microbial and statistical analysis of soil and bat tissue samples to understand the ecological impact of cave microbiota on the bat microbiome and ability of the white nose fungus to proliferate within a cave system.

- 5/2014 – 8/2014 NGGREC Internship-University of Illinois – Champaign-Urbana
Designer and team lead for a project requiring the collection of soil and water samples for chemical and microbial analysis to identify the effect of bacteria on biogeochemical processes.
- 2013 - 2014 Microbial Entomology
Designed a research project to investigate the mosquito gut microbiome and the transport of bacteria throughout the larval development cycle. Analyzed the potential use of *bacteria* as a target for priming the immune system of mosquitoes to prevent transmission of malaria.
- 2013 – 2014 Environmental Microbial Data Analysis – Michigan State University
Analyzed lake water samples and extensive database collections using environmental microbial statistical analysis. Also performed in-depth literature review and analyses reporting directly to the lead scientist in preparation for a national conference.
- 12/2011 – 6/2014 Quantitative Microbiologist – Michigan State University
Team assistant lab manager conducting quantitative microbial testing on storm water samples to determine contamination and effectiveness of storm water treatment facilities in Toledo, Ohio.
Prepared chemical reagents for laboratory analysis as well as specimen analysis and followed stringent laboratory safety and sanitation protocols and performed water chemical tests for analysis and data compilation. Managed large-scale databases and designed statistical models for epidemic prediction and determination of relationships.
- 2007 - 2011 *Logistics Specialist 3rd Class. United States Navy*
Public Healthcare Specialist -- Project Management
Primary database administrator for 3rd MLG and assistant project manager in the management of a \$25 million-dollar medical supply budget using SAP and a proprietary database system. First intra-military liaison for the joint medical centralization project coordinating resources and databases for over 30 different operations optimizing supply chains through statistical data analysis.

Professional Research Presentation Experience

- 2022 American Climate Leadership Summit
Keynote speaker engaged in the exploration of the relationship between climate change and natural disasters on children's mental health and longitudinal community recovery.
- 2022 Collaborative on Health and the Environment Conference
Keynote speaker discussing how centering the community in environmental health studies extends the impact and breadth of scientific research. Highlighted the role of children's health in understanding community wellbeing.
- 2020 Public Outreach Covid Presentations
Over the course of the year gave numerous presentations to groups answering questions related to the Covid-19 and pandemic safety.
- 2017 Greater Louisville Project
Coordinated and developed presentation of the 2017 Louisville Poverty Report exploring four Deep Drivers of Change, the GLP engages the community in a shared agenda for long-term progress. Annually, the Greater Louisville Project publishes the "Competitive City Report," tracking progress against key community indicators.
- 2014 Undergraduate Science Research Forum
Presented on ecological relationship between fish and effect of parasitism on fish behavior.
- 2014 Evolution and Ecology Conference (University of Dayton)
Presentation on the role of environmental changes and pollution on the mating behavior of stickleback fish.
- 2013 Evolutionary Biology Conference (MSU)
Presentation on the role of environmental physio-chemical changes on the behavior of stickleback fish.

Awards & Fellowships

- 2021 SEC Emerging Scholars Career Fellow
SEC Preparation Workshop is designed to provide professional development
- 2020 Agents of Change Fellow
Agents of Change is an ongoing series featuring the stories, analyses and perspectives of next generation environmental justice leaders who come from historically under-represented backgrounds in science and academia
- 2018 Lyman T. Johnson Fellow
A competitive award used to recruit and support underrepresented minority and first-generation graduate students at the University of Kentucky