

CURRICULUM VITAE

Brian Guinn
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EDUCATION

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|-------------|--|
| 2015 – 2018 | PhD – Epidemiology
University of Louisville – School of Public Health and Information Sciences |
| 2013 - 2015 | Masters of Public Health, Epidemiology
University of Louisville – School of Public Health and Information Sciences |
| 1997 - 2001 | Bachelor of Science in Nursing (BSN)
Bellarmine University |

HONOR SOCIETIES

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| 2015 | Delta Omega |
| 2015 | Phi Kappa Phi |

HONORS AND AWARDS

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| 2013 | Financial award based on academic performance – University of Louisville School of Public Health |
| 2011 | Production Award – U.S. Department of Veterans Affairs |
| 1997 & 2001 | Academic All-Conference – NCAA, GLVC Conference |
| 1997 | Leadership Scholarship – Bellarmine University |

TEACHING AND RESEARCH INTERESTS

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| Teaching | Fundamentals of Epidemiology; Public Health History; Environmental Epidemiology |
| Research | Environmental lead exposure, specifically topsoil lead contamination in Jefferson County, KY; Etiologies of crime and antisocial behavior; Ischemic heart disease mortality following pneumonia; The early detection of cancer |

ACADEMIC EMPLOYMENT

- 10/2020 - Present **Director - Master of Public Health Program**
University of Louisville – School of Public Health and Information Sciences
- 7/2020 - Present **Assistant Professor**
University of Louisville – School of Public Health and Information Sciences, Department of Epidemiology
- Instructor undergraduate/graduate public health program
- 12/2018 - 6/2020 **Postdoctoral Associate**
University of Louisville – School of Public Health and Information Sciences, Department of Epidemiology
- Faculty Mentor: Dr. Kathy B. Baumgartner
- Instructor undergraduate/graduate public health program
 - Helped manage the E-Detect Pilot Study:
 - Developed REDCap database
 - Screened and enrolled study participants
 - Trained graduate students in data entry
- 01/2017 - 12/2018 **Graduate Teaching Assistant**
University of Louisville – School of Public Health and Information Sciences, Department of Epidemiology
- Faculty Mentor: Dr. Kathy B. Baumgartner
- Created original lecture content for graduate students enrolled in *Introduction to Epidemiology*, and *Epidemiological Methods I*
 - Assisted with design and development of examinations, quizzes, homework, and in-class assignments
 - Assisted with mapping the Council of Education Public Health (CEPH) Competencies to class assessments
 - Responsible for grading examinations, quizzes, homework, and in-class assignments
 - Tutored students one-on-one, as needed
- 2013 - 2017 **Clinical Research Coordinator**
University of Louisville, Division of Infectious Diseases, Clinical Translational Research Support Unit
- Principle Investigator: Dr. Julio Ramirez

- Quality control team member for Pfizer UAD and HAPPI studies
- Provided support and guidance for university faculty in the development of research questionnaires/data collection forms
- Developed REDCap modules for data capture for university faculty
- Created maps as needed using ArcGIS and SaTScan Software

TEACHING EXPERIENCE

2021 - Present	PHUN 101 – Introduction to Public Health
2021 - Present	PHPH 679 – Public Health Practice Experience 3
2021 - Present	PHEP 442 – Disease Detectives
2020 - Fall	PHPH 550 – Disease Detectives
2019 - Present	PHPH 431 – Issues in Public Health
2019 - Present	PHEP 441 – Epidemiology for Public Health
2019 - Present	PHEP 501 – Introduction to Epidemiology

PROFESSIONAL DEVELOPMENT

2021 - Spring	National Leadership Academy for the Public’s Health (NLAPH)
2021 - Spring	Deans’ Forum on Educational Excellence

ACADEMIC COMMITTEES

2020 - Present	Dissertation Committee – Lindsey Wood
2020 – Present	Senior Honors Thesis – Faculty Mentor – Sarah Draud
2018	Decanal Review Committee Student Representative for the School of Public Health and Information Sciences

PROFESSIONAL SERVICE – PEER REVIEWER FOR ACADEMIC JOURNALS

2019 - Present	American Journal of Public Health
2019 - Present	Preventive Medicine
2019 - Present	PeerJ

PUBLICATIONS

9. Wiemken TL, Carrico RM, Furmanek SP, **Guinn BE**, Mattingly WA, Peyrani P, Ramirez JA. The impact of socioeconomic position on the incidence, severity, and clinical outcomes of hospitalized patients with community-acquired pneumonia. *Public Health Reports*. **In Press**
8. Wiemken TL, Furmanek SP, Mattingly WA, Wright MO, Persaud AK, **Guinn BE**, et al. Methods for computational disease surveillance in infection prevention and control: Statistical process control versus Twitter's anomaly and breakout detection algorithms. *American journal of infection control*. **2018**;46(2):124-32
7. El-Kersh K, Jalil B, McClave SA, Cavallazzi R, Guardiola J, Guilkey K, Persaud AK, Furmanek SP, **Guinn BE**, Wiemken TL, Alhariri BC, Kellie SP, Saad M. Enteral nutrition as stress ulcer prophylaxis in critically ill patients: A randomized controlled exploratory study. *Journal of critical care*. **2018**;43:108-13
6. Ramirez JA, Wiemken TL, Peyrani P, Arnold FW, Kelley R, Mattingly WA, Nakamatsu R, Pena S, **Guinn BE**, Furmanek SP, Persaud AK, Raghuram A, Fernandez F, Beavin L, Bosson R, Fernandez-Botran R, Cavallazzi R, Bordon J, Valdivieso C, Schulte J, Carrico RM; University of Louisville Pneumonia Study Group. Adults Hospitalized With Pneumonia in the United States: Incidence, Epidemiology, and Mortality. *Clinical infectious diseases: an official publication of the Infectious Diseases Society of America*. **2017**;65(11):1806-12
5. Wiemken TL, Furmanek SP, Carrico RM, Mattingly WA, Persaud AK, **Guinn BE**, et al. Process control charts in infection prevention: Make it simple to make it happen. *American journal of infection control*. **2017**;45(3):216-21.
4. Faryar KA, Freeman CL, Persaud AK, Furmanek SP, **Guinn BE**, Mattingly WA, et al. The Effects of Kentucky's Comprehensive Opioid Legislation on Patients Presenting with Prescription Opioid or Heroin Abuse to One Urban Emergency Department. *The Journal of emergency medicine*. **2017**;53(6):805-14.
3. Burkes R, Pfister G, **Guinn B**, Cavallazzi R. Opioid overdose leading to intensive care unit admission: Epidemiology and outcomes. *Journal of critical care*. **2017**;37:261.
2. Mattingly WA, Kelley RR, Wiemken TL, Chariker JH, Peyrani P, **Guinn BE**, et al. Real-Time Enrollment Dashboard For Multisite Clinical Trials. *Contemporary clinical trials communications*. **2015**;1:17-21.
1. Wiemken TL, Kelley RR, Carrico RM, Binford LE, **Guinn BE**, Mattingly WA, et al. Efficacy of a novel skin antiseptic against carbapenem-resistant Enterobacteriaceae. *American journal of infection control*. **2015**;43(4):380-2.

POSTER PUBLICATIONS

B Guinn, T Wiemken, R Kelley, L Binford, F Arnold, R Carrico, P Peyrani, K Buckner, C Ackerman, J Ramirez. Levels of Air Pollution in Jefferson County Kentucky are Associated with Increased Risk for Lower Respiratory Tract Infection Hospitalization. Research Louisville. 2013.

R Rivera, **B Guinn**, T Wiemken, R. Kelley, M Ahmed, J Gonzalez, J Lanceta, V Salunkhe, L Binford, J Ramirez. Impact of Economic Factors on the Incidence of Hospitalization for Lower Respiratory Tract Infection in Jefferson County. Research Louisville. 2013.

J Lanceta, **B Guinn**, T Wiemken, R Kelley, V Salunkhe, S Pena, L Rodriguez, L Binford, C Ackerman, J Ramirez. Patients Hospitalized with Lower Respiratory Tract Infections in Jefferson County: The Impact of Census Tract Level Demographic Characteristics. Research Louisville. 2013.

K Buckner, R Kelley, L Binford, **B Guinn**, J. Gonzalez, C Ackerman, P Peyrani, R Carrico, J Ramirez, T Wiemken. The Economic Burden of Hospitalization due to Pneumonia in Acute Care Hospitals in Jefferson County. Research Louisville. 2013.

Pfister GJ, Burkes RM, **Guinn B**, Steele J, Kelley RR, Wiemken TL, Sadd M, Ramirez J, Cavallazzi R. Opioid Overdose Leading to Intensive Care Unit Admission: Epidemiology and outcomes. *Journal of Critical Care*. 2013.

W Mattingly, R Kelley, K Buckner, **B Guinn**, L Binford, J Lanceta, J Ramirez. Development of Applications to Facilitate Clinical Research: The Pneumonia in Jefferson County Research App. Research Louisville. 2013.

PROFESSIONAL PUBLIC HEALTH PRESENTATIONS

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|----------------|---|
| March 14, 2017 | Kentucky Hospital Association – Critically Thinking about Quality Control Measures Utilized by HIIN |
| August 6, 2016 | University of Louisville – Division of Infectious Diseases: Measures of Association |
| May 20, 2016 | Western Kentucky Chapter APIC: An Introduction into Descriptive and Inferential Statistics |

PROFESSIONAL EMPLOYMENT

2008 - 2013

Journey Level Rating Veterans Service Representative (RVSR) - U.S. Department of Veterans Affairs

- Adjudicated claims for disability compensation and/or pension
- Adjudicated Dependency Indemnity Compensation claims
- Specialized team member working with a small group to adjudicate contaminated water claims made by veterans who were stationed at Camp Lejeune
- Cross trained to evaluate claims of military sexual assault, Traumatic Brain Injury, Post-Traumatic Stress Disorder, and Gulf War Illness

2006 - 2008

Registered Nurse

Baptist Hospital East, Cardiac Catheterization Lab

- Assisted cardiologists with diagnostic and urgent cardiac catheterizations, percutaneous coronary interventions, balloon pump and pacemaker/ICD implantations
- Performed Tilt-Table studies, assisted with trans-esophageal echocardiograms, and assisted with electrophysiology studies/ablations
- Responded to cardiopulmonary arrest throughout the hospital as needed
- On call 108 hours a month for after-hour emergencies

2001 - 2006

Registered Nurse

Baptist Hospital East, Transitional Care Unit

- Responsible for maintaining continuous surveillance of patient cardiopulmonary status, administering medications, monitoring pertinent lab findings and informing physicians as needed
- Mentored new nurses during their training period and educated student nurses during their clinical rounds
- Relief charge nurse responsibilities

CERTIFICATION AND LICENSURE

2001 - Present	Registered Nurse, Kentucky
2001 - 2017	Basic Cardiac Life Support
2009-2013	Certified Sensitive 6 Clearance, U.S. Department of Veterans Affairs
2008-2013	Certified Journey Level Rating Specialist, U.S. Department of Veterans Affairs
2006-2008	Certified in Balloon-Pump Management
2006-2008	Certified in Hemodynamic Monitoring
2001-2008	Advanced Cardiac Life Support

OTHER ACTIVITIES

2009	Medical Response Team Leader – U.S. Department of Veterans Affairs Regional Office 327
2006 - 2008	Workplace Safety Team Leader – Cardiac Catheterization Lab – Baptist Hospital East
2001	Southern Middle School - volunteer physical education teacher/mentor
2001	“Kids Café” volunteer mentor – helped grades K – 8 participants with homework during study hour, and organized after school activities