Jacqueline R. Basham, Ed.D., MPH, ASP

EDUCATION

Doctor of Education in Educational Leadership

May 2024

Western Kentucky University, Bowling Green, KY

Dissertation: Female Leaders in Occupational Safety & Health: Perceived Barriers and

Potential Interventions

Master of Public Health (Environmental Health Concentration)

May 2015

Western Kentucky University, Bowling Green, Kentucky

Capstone: A Comparison of Hazardous Materials Commodity Flow Studies in Five Kentucky Counties

Environmental Health & Safety Graduate Certificate

Dec. 2013

Western Kentucky University, Bowling Green, Kentucky

Bachelor of Science in Environmental & Occupational Health Science

May 2012

Western Kentucky University, Bowling Green, Kentucky

Summa cum laude

Honors Thesis: The Evaluation of Water Quality and Weather Patterns as Indicators for Escherichia Coli in Slaters Creek Watershed in Millersville, TN

Occupational Safety & Health Certificate

Dec. 2011

Western Kentucky University, Bowling Green, Kentucky

EMPLOYMENT & PROFESSIONAL EXPERIENCE

Program Director EOHS, Western Kentucky University	Aug. 2021 – Present
Program Director Health Sciences, Western Kentucky University	July 2025 – Present
Instructor, Western Kentucky University	Aug. 2015 – Present

Responsibilities included:

- Instructed Intro to Occupational Safety & Health Course (ENV 120)
 - o Developed class content, activities, and discussion boards
 - o Presented power point lectures online
- Instructed Intro to Environmental Science Class (ENV 280)
 - Led class discussion on various environmental topics
 - o Presented power point lectures both in-class and online
 - Developed class content and activities
- Instructed General Safety Class (SFTY 270)
 - o Developed class content, activities, and discussion boards
 - Presented power point lectures online

• Instructed Fundamentals of Industrial Hygiene Class & Lab (ENV 321 & 323)

- Developed class content and activities
- o Demonstrated proper lab safety and equipment use

• Instructed Principles of Environmental Toxicology (ENV 380)

- Led class discussions on environmental toxicology topics
- o Presented power point lectures both in-class and online
- o Developed class content, activities, quizzes, and tests

• Instructed Environmental Risk Assessment (ENV 474)

- o Developed class content, activities, and discussion boards
- o Presented lectures online via Zoom and Mediasite

• Instructed Hazardous & Solid Waste (ENV 480)

- Developed class content, activities, and discussion boards
- Presented power point lectures online

• Instructed Senior Environmental Health Seminar (ENV 486)

- Organized guest speaker to discuss panel interview strategies with students
- Assisted students with creating effective resumes and cover letters
- Led class discussions on career choices and interview techniques

• Instructed Internship in Environmental Health & Safety Class (ENV 491)

- Assisted students with locating internship sites and preceptors
- Assisted students with completing internship portfolios

Faculty Advisor for Environmental Health Science Student Association

- Worked with students to instruct a water safety informational session to elementary students at Ag Safety Day
- Organized volunteers for various activities including: Household Hazardous Waste Day, Progressive Agriculture Foundation Safety Day, Goodlettsville Stream Clean-Up, Relay for Life, and No Child Hungry Food Drive.
- o Assisted KPHA with "Get Moving" day at Bowling Green Junior High

Teaching Assistant, Western Kentucky University

Jan. 2014 – May 2015 Aug. 2012 – Dec. 2012

Responsibilities included:

• Instructed Intro to Environmental Science Class (ENV 280)

- Led class discussions on various environmental topics
- Presented Power Point lectures and developed class activities
- Proctored exams

• Assisted with Environmental & Occupational Epi Class (EHS 572)

- o Helped students learn SAS commands and functions
- o Graded quizzes and assignments
- Proctored exams

• Assisted with Environmental Health Online Course (PH 385)

- o Posted quizzes, assignments and exams on Blackboard
- o Graded quizzes, assignments, discussion boards and exams

• Instructed Industrial Hygiene Lab (ENV 323)

- o Calibrated air quality equipment and water quality equipment
- Developed laboratory quizzes and administered them to the class
- o Explained and demonstrated proper use of laboratory equipment
- Led class discussion about occupational safety and health issues

• Assisted with Industrial Hygiene Class (ENV 321)

- o Aided students with worksheets for noise and heat exposure, gas laws, etc.
- o Created answer keys for several assignments and exams
- o Demonstrated and explained how to solve gas law equations in-class

• Assisted with Hazardous & Solid Waste Online Course (ENV 480)

- Created Power Point presentations based off the textbook
- o Graded quizzes, assignments, discussion boards and exams

• Assisted with Intro to Water Resources Course (ENV 375)

- o Developed discussion assignments for class
- Graded quizzes and assignments
- o Calibrated and demonstrated water quality equipment

• Assisted with Environmental Measurement Course (ENV 495)

- Assisted in developing research topics and abstracts
- Reviewed final presentations

Graduate Assistant, Western Kentucky University

Aug. 2012 – May 2013 Jan. 2014 – May 2015

- Assisted with writing and presenting information for ergonomics research project
- Developed a literature review and presentation about Gulf War Illness
- Entered and analyzed data for hazardous commodity flow studies
- Created first drafts of hazardous commodity flow study reports
- Assisted with research on estrogen concentrations in local water
- Worked with other students to develop a PSA video for the public health department

Student Worker, USDA Agricultural Research Service

May - Dec. 2013

- Built 4-inch soil columns to use for experiments
- Developed and completed multiple laboratory background trials for soil columns
- Tested various media types and antibiotic concentration
- Determined background concentrations of bacteria in multiple soils
- Tested swine lagoon effluent for bacteria and antibiotic-resistant bacteria

PUBLICATIONS

Sanyang, E., Adams, A., Taylor, R., McDonald, V. Macy, G. & **Basham, J.** (2024). Knowledge of Infection Prevention and Control and Practice Behaviors among Career and Volunteer Firefighters in Rural Communities. *Merits*, 4(2): 146-158. 10.3390/merits4020011.

Macy, G., **Basham**, J., Watkins, C., & Golla, V. (2021). Workplace Health in Kentucky: A Statewide Comparison. *International Journal of Environmental Research and Public Health*, *18*(10), 5473. https://doi.org/10.3390/ijerph18105473

Basham, J., Cangemi, J., & Wafzig, E. (2020). Workforce in the United States: How Do Women Lead? A Brief Overview. *Psychology & Psychological Research International Journal*, *5*(4). https://doi.org/https://medwinpublishers.com/PPRIJ/workforce-in-the-united-states-how-dowomen-lead-a-brief-overview.pdf

Watkins, C. M., Macy, G. M. B., Golla, V., Lartey, G. K., **Basham, J. R.** (2018). "The Total Worker Health Concept: A Case Study in a Rural Workplace." *Journal of Occupational and Environmental Medicine*. 60(5): 387-391. 10.1097/JOM.000000000001273.

Brown, Jacqueline, "The Evaluation of Water Quality and Weather Patterns as Indicators for Escherichia Coli in Slaters Creek Watershed in Millersville, Tennessee" (2012). *Honors College Capstone Experience/Thesis Projects*. Paper 347. http://digitalcommons.wku.edu/stu_hon_theses/347

TECHNICAL REPORTS

Basham, J., Sanyang, E., Macy, G. Taylor, R. "2024 Kentucky Jurisdictional Risk Assessment" (February, 2025).

Macy, G., **Basham, J.**, Burch, K., Golla, V., Taylor, R., Sanyang, E. & Watkins, C. "Assessment of Training Needs Among Occupational Safety and Health Professionals in Kentucky" (August 2023).

Taylor, R. & **Basham**, **J**. "Bioassessment of Streams within the City of Portland, TN" (June 2023).

Taylor, R. & **Basham**, **J**. "Bacteriological Study of Streams within the City of Portland, TN" (June 2023).

Taylor, R., Sanyang, E., **Basham, J.,** & Macy. G. "Northern Kentucky Hazardous Materials Commodity Flow Study" (May 2023).

Taylor, R., **Basham, J.** Lorenzana, A., & Hardin, H. "Watershed Assessment within the City of Goodlettsville, TN" (May 2023).

Basham, J., Macy, G., Taylor, R., Sanyang, E. & Macy, J. "Pulaski County, Kentucky Hazardous Materials Commodity Flow Study" (March 2023).

Taylor, R. & **Basham, J**. "Bacteriological Study of Streams within the City of Goodlettsville, TN MS4" (June 2022).

Macy, G., Watkins, C., Basham, J. & Golla, V. "Workplace Health in Kentucky" (May 2020).

Taylor, Ritchie D.; **Basham, J.R.**; Sanyang, E.; Gilbert, W. "Scott County, Kentucky Hazardous Material Commodity Flow Study: Final Report" (April 2020).

Taylor, R.D., **Basham, J.R.**, Golla, V., Gilbert, W. (student), Joshi, A. (student), Cheek, L. (student) and Davis, S. (student). "Assessment of Diesel Particulate Matter in City of Bowling Green Fire Stations". (2019).

Taylor, Ritchie D.; **Basham, J.R.**; Golla, V, "Pike County, Kentucky Hazardous Material Commodity Flow Study: Final Report" (August 2018).

Taylor, Ritchie D.; **Basham, J.R**.; Golla, V, "Oldham County Hazardous Material Commodity Flow Study: Final Report" (August 2017).

Taylor, Ritchie D.; Golla, Vijay; **Brown, Jacqueline**, "Shelby County Hazardous Material Commodity Flow Study: Final Report" (August 2015).

Golla, Vijay; Taylor, Ritchie D.; **Brown, Jacqueline**; and Danny Blevins, "Rowan County Hazardous Material Commodity Flow Study: Final Report" (August 2014).

Taylor, Ritchie D.; Golla, Vijay; **Brown, Jacqueline**; and Wesley Delk, "Montgomery County Hazardous Material Commodity Flow Study: Final Report" (August 2014).

Golla, Vijay; Taylor, Ritchie D.; **Brown, Jacqueline**; Makinen, Bryan; Richards, Carl; and Makinen, Bryan, "Madison County, Kentucky, Hazardous Materials Commodity Flow Analysis: Final Report" (August 2014).

Taylor, Ritchie; Golla, Vijay; Myatt, Bob; Advani, Shailesh; Gole, Pragati; Nair, Rasmi; **Brown, Jacqueline**; Willis, Nate; and Barringer, Ellen, "Warren County, Kentucky Hazardous Materials Commodity Flow Analysis, Final Report" (2010).

PRESENTATIONS

"Kentucky Jurisdictional Risk Assessment" 2025 Kentucky Department for Integrated Preparedness Planning Workshop, Frankfort, KY, Invited Speaker, April 1, 2025

"Women in Social Science Professions" Western Kentucky University, Bowling Green, KY, Invited Speaker, March 11, 2024

- "Women in Safety Leadership" American Society of Safety Professionals, Women in Safety Excellence Panel Webinar, Invited Panelist, October 24, 2023
- "Female Leaders in Occupational Safety & Health: Perceived Barriers & Potential Interventions," Board of Certified Safety Professionals Foundation's Research & Innovation Summit, Indianapolis, IN, August 8, 2023
- "Pulaski County, Kentucky Hazardous Materials Commodity Flow Study," Pulaski County Local Emergency Planning Commission for Pulaski County Emergency Management, Somerset, KY, March, 27, 2023
- "Workplace Health in Kentucky: Training Needs Related to Occupational Safety and Health," Kentucky Public Health Association, Bowling Green, KY, April 21, 2022
- "Workplace Violence Among Young Black Workers Ages 18-24 in Southcentral Kentucky," PRP Symposium, University of Cincinnati, NIOSH Education and Research Center, Virtual, October, 21-22, 2021
- "Integration of Health Promotion and Health Protection: Total Worker Health for Safety Professionals," Zoom Online Platform, September 8, 2021
- "The Center for Environmental & Workplace Health: Engaging Students and the Community through Focused Research, Training, & Outreach", The CHHS Research Seminar Series, WKU College of Health & Human Services, Bowling Green, KY, February 12, 2021
- "Comparison of Water Quality Results in the Green River Watershed," Green River Watershed Water Annual Conference, Bowling Green, KY, March 16, 2019
- "Assessment of Diesel Particulate Matter in City of Bowling Green Fire Stations," City of Bowling Green Fire Department Personnel, Bowling Green, KY, January 14, 2019
- "Hazardous Material Commodity Transport in Kentucky & Tools for Emergency Management," Kentucky Environmental Health Association Annual Conference, Bowling Green, KY, April 15, 2018
- "Oldham County, Kentucky Hazardous Commodity Flow Study," Oldham County Local Emergency Planning Commission for Oldham County Emergency Management, La Grange, KY, January 4, 2018
- "A Statewide Analyses of Hazardous Materials Incidents in Kentucky," 69th Annual Kentucky Public Health Association Conference, Owensboro, KY, April 11-13, 2017
- "Hazardous Materials Commodity Flow Studies in Kentucky and Future Directions," Kentucky Emergency Response Commission for Kentucky Emergency Management, Versailles, KY, January 28, 2017

"A Comparison of Hazardous Materials Flow in Five Kentucky Counties: Urban vs. Rural Gradient," American Industrial Hygiene Conference & Exposition, Baltimore, MD, May 21-26, 2016

"An Innovative Approach to Service Learning and Watershed Management," Kentucky Public Health Association, Louisville, KY, March 26-28, 2013

"An Innovative Approach to Service Learning and Watershed Management," American Water Resource Association, Jacksonville, FL, November 12-15, 2012

"Water Quality Monitoring as a Tool for Assessing E. Coli Contamination in the Slaters Creek Watershed," Kentucky Public Health Association, Louisville, KY, March 27-30, 2012

GRANT-FUNDED / CONTRACT PROJECTS

Grant, "NIOSH – Occupational Safety & Health Training Project Grant – Year 4", Amount: \$198,583.00. Awarded, Start: July 1, 2025, End: June 30, 2026, Taylor, R. (PI), **Basham, J.** (Co-PI), Burch, K. (Co-PI), Macy, G. (Co-PI), Sanyang, E. (Co-PI).

Grant, "Hazardous Materials Commodity Flow Studies for Christian and Hopkins Counties in Kentucky", Amount: \$156,150.00. Awarded. Start: July 1, 2025, End: June 30, 2026. Taylor, R. (PI), **Basham, J.** (Co-PI), Sanyang, E. (Co-PI), Macy, G. (Co-PI), Burch, K. (Co-PI).

Grant, "Kentucky Statewide Public Health Risk Assessment and Preparedness", Amount: \$129,685.00. Awarded. Start: August 1, 2024, End: December 31, 2024, Taylor, R. (PI), **Basham, J.** (Co-PI), Sanyang, E. (Co-PI), Macy, G. (Co-PI).

Grant, "NIOSH – Occupational Safety & Health Training Project Grant – Year 3", Amount: \$198,583.00. Awarded, Start: July 1, 2024, End: June 30, 2025, Taylor, R. (PI), **Basham, J.** (Co-PI), Burch, K. (Co-PI), Macy, G. (Co-PI), Sanyang, E. (Co-PI).

Grant, "Transdisciplinary Opportunity Program - Developing a Center of Excellence in Total Worker Health: Total Firefighter Health Pilot Program as a Catalyst for Growth". Amount: \$100,000.00. Awarded, Start: July 1, 2024, End: June 30, 2026, Taylor, R. (PI), Burch, K. (Co-PI), Macy, G. (Co-PI), **Basham, J.** (Co-I), Sanyang, E. (Co-I), Haughtigan, K. (Co-I), Link, K. (Co-I).

Grant, "NIOSH – Occupational Safety & Health Training Project Grant – Year 2", Amount: \$198,583.00. Awarded, Start: July 1, 2023, End: June 30, 2024, Taylor, R. (PI), **Basham, J.** (Co-PI), Burch, K. (Co-PI), Macy, G. (Co-PI), Sanyang, E. (Co-PI).

Grant (QTAG), "Understanding Challenges Female Leaders in OSH face and Identifying Potential Interventions", Amount: \$2970.00. Awarded, Start: November 30, 2022, End: April 15, 2023, **Basham, J.** (PI), Taylor, R. (Co-I), Macy, G. (Co-I), Archer, L. (Co-I).

Contact, "Bacteriological Survey in the City of Portland, TN Jurisdiction", Amount: \$12,867.00. Awarded, Start: September 26, 2022, End: June 30, 2023, Taylor R. (PI), **Basham J.** (Co-PI).

Contact, "Macroinvertebrate Survey in the City of Portland, TN Jurisdiction", Amount: \$17,351.00. Awarded, Start: September 26, 2022, End: June 30, 2023, Taylor R. (PI), **Basham J.** (Co-PI).

Contract, "Nonanalytical Monitoring to Include Visual Stream Surveys in Goodlettsville, TN," Amount: \$15,404.00. Awarded, Start September 09, 2022, End: May 31, 2023, Taylor R. (PI), **Basham J.** (Co-PI).

Grant, "Assessment of Training Needs Among Occupational Safety and Health Professionals in South-Central Kentucky," Amount: \$19,633.00. Awarded, Start: July 15, 2022, End: June 30, 2023, Macy, G. (PI); **Basham, J.** (Co-I); Taylor, R. (Co-I); Sanyang, E. (Co-I), Burch, K. (Co-I), Watkins, C. (Co-I), Golla, V. (Co-I).

Grant, "NIOSH – Occupational Safety & Health Training Project Grant – Year 1", Amount: \$184,862.00. Awarded, Start: July 1, 2022, End: June 30, 2023, Taylor, R. (PI), **Basham, J.** (Co-PI), Burch, K. (Co-PI), Macy, G. (Co-PI), Sanyang, E. (Co-PI).

Grant, "Workplace Violence Among Black Workers Ages 18-24 in Southcentral Kentucky," Amount: \$7,993.00, Awarded, Start: October 2021, End: June 30, 2022, Sanyang, E. (PI); Taylor, R. (Co-PI); Macy, G. (Co-I); **Basham, J**. (Co-I).

Grant, "Hazardous Materials Commodity Flow Studies for Pulaski, Laurel & Kenton Counties in Kentucky," Amount: \$103,920.00, Awarded, Start: June 16, 2021, End: September 30, 2022, Taylor, R. (PI); Sanyang. E. (Co-PI); **Basham, J. (Co-I)**; Macy, G. (Co-I).

Contract, "MS4 Analytical and Non-Analytical Monitoring, Greenbrier, TN," Amount: \$23,914.00, Awarded, Start: May 2021, End: November 30, 2021, Taylor, R. (Project Director); **Basham, J.** (Project Environmental Scientist).

Grant, "Hazmat Commodity Flow Study in Scott County, KY," Amount: \$38,500.00, Awarded, Start: February 15, 2020, End: April 15, 2020. Taylor, R. (PI); **Basham, J. (Co-PI)**; Sanyang. E. (Co-PI).

Grant, "Statewide Assessment of Workplace Health Promotion Programs in Kentucky with a Comparison to National Trends" Amount: \$15,000, Awarded, Start: August 15, 2019, End: June 30, 2020. Macy, G. (PI); Watkins, C. (Co-PI); **Basham, J. (Co-I)**; Golla, V. (Co-I).

Grant, "NIOSH Graduate Training Program Grant," Amount: \$450,000.00, Awarded, Start: July 1, 2019, End: September 30, 2022. Taylor, R. (PI); Sanyang, E. (Co-PI); **Basham, J. (Co-I)**; Macy, G. (Co-I); Watkins, C. (Co-I).

Contract, "City of Goodlettsville – Stream Corridor Assessment", Amount: \$9950.00, Awarded, Start: July 1, 2018, End: June 30, 2019. Taylor, R. (PI); **Basham, J. (Co-PI).**

Contract, "City of Goodlettsville – Turbidity Water Quality Study", Amount: \$3819.00, Awarded, Start: June 29, 2018, End: September 30, 2018. Taylor, R. (PI); **Basham, J. (Co-PI)**

Contract, "City of Goodlettsville – Watershed Health Education", Amount: \$9954.00, Awarded, Start: June 1, 2018, End: June 30, 2019. Taylor, R. (PI); **Basham, J. (Co-PI).**

Contract, "Assessment of Diesel Particulate Exposures in the City of Bowling Green Fire Department", Amount: \$2500.00, Awarded, Start: May 15, 2018, End: November 30, 2018. Taylor, R. (PI); Golla, V. (Co-PI); **Basham, J. (Co-I).**

Grant, "NIOSH Undergraduate Training Program Grant," Amount: \$250,000.00, Awarded, Start: October 1, 2017, End: September 30, 2022. Golla, V. (PI); Taylor, R. (Co-PI); **Basham, J. (Co-I)**; Hwang, J. (Co-I).

Grant, "Hazmat Commodity Flow Study in Pike County, KY," Amount: \$34,500.00, Awarded, Start: May 15, 2018, End: August 31, 2018. Taylor, R. (PI); **Basham, J. (Co-PI)**; Golla, V. (Co-I).

Grant, "Hazardous Materials Commodity Flow Analysis in Oldham County, KY," Amount: \$34,364.00, Awarded, Start: May 15, 2017, End: September 30, 2017. Taylor, R. (PI); Golla, V. (Co-PI); **Basham, J. (Co-I).**

Contract, "Watershed Health Assessment, City of Portland, TN," Amount: \$9,994.00, Awarded, Start: August 25, 2016, End: June 30, 2017. Taylor, R. (PI); **Basham, J. (Co-I).**

Grant, "Total Worker Health in Rural Workplaces: Challenges of Implementation and Follow-up," Amount: \$12,000.00, Awarded, Start: August 4, 2016, End: June 30, 2017, Closed: June 30, 2017. Watkins, C. (PI); Golla, V. (Co-PI); Macy, G. (Co-I); Lartey, G. (Co-I); **Basham, J. (Co-I)**.

PROFESSIONAL TRAININGS & CERTIFICATIONS

WKU Center for Innovative Teaching & Learning, "Professional Development Day", January 16, 2025.

WKU Center for Innovative Teaching & Learning, "Alternatives to Online Discussions with Hypothesis", January, 15, 2025.

McGraw Hill, "Increasing Student Engagement in Environmental Science", March 5, 2024.

WKU Center for Innovative Teaching & Learning, "Creating a Balanced Syllabus", January 4, 2024.

Health Links, Colorado School of Pubic Health, "Women's Health and Well-being: Strategies for the Modern Workplace", October 18, 2023.

WKU Center for Innovative Teaching & Learning, "Blackboard Ultra Training Cohort", June 2023.

WKU Center for Innovative Teaching & Learning, "TOP Prep: Faculty & Staff Journey to the TOP", April 2023.

WKU Center for Innovative Teaching & Learning, "Getting Started with Gradescope", April 2023.

WKU, "Catharsis DEI Workshop", March 2023.

WKU, "Not Suitable for Work Pilot Training", April 2022.

WKU Center for Environmental & Workplace Health, "Data Analysis Training Using SAS Studio", April 2022.

WKU Center for Innovative Teaching & Learning, "Advising 101: Strategies for Successful Student Advising", Sept. 2021.

WKU Center for Innovative Teaching & Learning, "Blackboard Ultra", April, 2021.

WKU, "Growing More Diverse Pools & Following Best Practices in Inclusive Hiring", Dec. 2020.

Board of Certified Safety Professionals, Associate Safety Professional (ASP), Jan. 2020.

WKU Center for Innovative Teaching & Learning, "Metacognition Through the Lens of Small Teaching," Professional Learning Community, June 2019.

Southwest Center for Occupational & Environmental Health, "Advancing Worker Well-Being and Productivity through Total Work Health," Webinar, May 2019.

Volunteer State Community College OSHA Training Institute, "OSHA #511 Occupational Safety & Health Standards for General Industry," Gallatin, TN, June 2018.

OSHA 10-Hour General Industry Safety & Health Certification, Bowling Green, KY, Sept. 2017.

Eastern Kentucky University OSHA Training Institute, "OSHA 7500 – Introduction to Occupational Safety & Health," Bowling Green, KY, Aug. 2017.

Kentucky Department for Public Health, "Kentucky Public Health Assistance Support Team Training," Bowling Green, KY, Jan. 2017

STUDENT SUPERVISION & MENTORING

STUDENT RESEARCH PRESENTATIONS (*denotes student author)

Pitchford, C.*, Macy, J.*, Taylor, R., **Basham, J**., Macy, G., and Sanyang, E. "Historical County Level Maps of Natural Disasters and Extreme Weather Events for a Statewide Public Health Jurisdictional Risk Assessment", WKU Student Scholar Showcase, April 2025.

Pitchford, C.*, Taylor, R., **Basham, J**., Macy, G., Sanyang, E., and Macy, J.* "Historical County Level Maps of Natural Disasters and Extreme Weather Events for a Statewide Public Health Jurisdictional Risk Assessment", Posters at the Capitol, March 2025.

Macy, J.*; **Basham, J.**; Macy, G.; Taylor, R.; Sanyang, E.; Wallace, C. "Results of a Hazardous Materials Commodity Flow Study in Pulaski County, Kentucky" Kentucky Public Health Association Annual Conference, April 2023.

Alvarez Lorenza, A.*; Hardin, H.*; Taylor, R; Sanyang, E.; **Basham, J.**; Macy, G. "A Commodity Flow Study to Identify the Hazardous Materials Transported through Northern Kentucky, the Human Health Risks, and Needs for Hazardous Materials Transport Emergency Preparedness in Kentucky", Posters at the Capitol, March 2023.

Hartman, S.*; **Basham, J.**; Taylor, R. "Effects of COVID-19 on Kentucky Air Pollutant Levels", Posters at the Capitol, March 2022.

Hartman, S.*; **Basham, J.**; Taylor, R. "Effects of COVID-19 on Kentucky Air Pollutant Levels", Kentucky Public Health Association Annual Conference, Virtual, April 2021. – Received 2ND Place as an Outstanding Student Epidemiology Poster

Hartman, S.*; **Basham, J.**; Taylor, R. "Effects of COVID-19 on Kentucky Air Pollutant Levels", WKU Virtual Student Research Conference, April 2021. – Presentation Session Winner

Hartman, S.*; **Basham, J.**; Taylor, R. "Atrazine Concentrations in Drinking Water Supplies in Three Kentucky Counties", National Consortium for Specialized STEM Schools Summer Research Conference, Virtual, June 2020.

Pennington, M.*; Macy, G.; Watkins, C.; **Basham, J.**; Golla, V. "A Statewide Assessment of Workplace Health Promotion Programs in Kentucky with a Comparison to National Trends." Kentucky Public Health Association Conference, Virtual, May 2020.

Hartman, S.*; **Basham, J.**; Taylor, R. "Atrazine Concentrations in Drinking Water Supplies in Three Kentucky Counties", Kentucky Public Health Association Annual Conference, Virtual, May 2020.

Hartman, S.*; **Basham, J.**; Taylor, R. "Atrazine Concentrations in Drinking Water Supplies in Three Kentucky Counties", WKU Virtual Student Research Conference, April 2020.

HONORS THESIS COMMITTEE

Mackenzie Pennington, Public Health, "How Policy Affects Workplace Health: A Comparison of Workplace Health Policies Between Kentucky & Colorado," 2018.

HONORS & AWARDS

"IMPACT Belize Leadership Team Member & Participant"	Jan. 2011
College of Health & Human Services, Western Kentucky University	

"Outstanding Environmental Health Science Student" April 2011 College of Health & Human Services, Western Kentucky University

"Award of Excellence Scholarship Recipient"	Aug. 2008 – May 2012
Western Kentucky University	

PROFESSIONAL MEMBERSHIPS

Member, American Society of Safety Professionals	October 2023 - Present
Member, American Industrial Hygiene Association	January 2022 – January 2023
Member, Board of Certified Safety Professionals	January 2020 – Present

SERVICE & VOLUNTEER EXPERIENCE

Program Director, WKU Health Sciences Undergraduate Program	July 2025 - Present
Member, WKU CHHS Recruitment & Retention Workgroup	September 2021 – Present
Program Director, WKU EOHS Undergraduate Program	August 2021 – Present
Faculty Fellow, WKU Center for Environmental & Workplace Health	n August 2017 – Present
Faculty Judge, WKU Student Research Conference	March 2022

Faculty Judge, WKU Student Research Conference	April 2021
Member, Public Health Undergraduate Student Success Summit	August – November 2019
Member, EOHS Comprehensive Academic Program Evaluation	November 2018
Member, Department of Public Health Advising & Retention	March – December 2016