

CIRRUCULUM VITAE

Sylvanna L. Bielko

Assistant Professor of Public Health

Taylor University | Dept. of Environmental Science, Public Health, & Sustainable Development

236 W Reade Ave | Upland, IN 46989

Office: 765-998-4946 | Email: sylvanna_bielko@taylor.edu

EDUCATION

Indiana University, School of Public Health, Bloomington, IN

Doctor of Philosophy. ABD

Major: Environmental Health

Minor: Human Performance

Indiana University, School of Public Health, Bloomington, IN

Master of Science, December 2013

Major: Kinesiology

Hanover College, Hanover, IN

Bachelor of Arts, May 2009

Major: Biochemistry and Exercise Physiology

RESEARCH EXPERIENCE

Doctoral Dissertation, Indiana University

2016-present

Review and evaluation of various formats of educational interventions to increase hearing protection use among farmworkers

- The dissertation includes three projects:
 - 1) Review of literature on the use of various technological approaches (i.e. smartphone apps, internet-based, etc.) that have been utilized in hearing conservation programs
 - 2) Survey of college-aged agriculture students to evaluate the perception, priorities, and rankings of various formats of traditional and technology-based hearing protection educational approaches.
 - 3) Study evaluating the efficacy of educational interventions (classroom training or classroom training plus a noise-measuring smartphone app) on change in attitude, knowledge, and use of hearing protection devices among adolescent farmworkers six months after interventions

Graduate Research Assistant, Indiana University

2016-2017

Chronic exposure to air pollutants and neurobehavioral effects in children from low-income households in Quito, Ecuador

- The study was conducted by Rodrigo Armijos, MD, ScD and Khalid M. Khan, DrPH from the School of Public Health (SPH) at Indiana University.
- The study examined whether chronic exposure to high PM2.5 and ultrafine particles (UFP) fractions is associated with: 1) neurobehavioral health outcomes in children and 2) functional indicators of behavior outcomes in children.
- Contribution to the study included editing/reviewing critical documents, preparation for data collection in Ecuador, data analysis, and writing of manuscripts

Graduate Research Assistant, Indiana University

2016-2017

Agrochemical exposures and associated health effects in adults living in an agricultural community in rural Bangladesh

- The study is a collaboration between researchers in the School of Public Health (SPH) at Indiana University and the International Centre for Diarrhoeal Disease Research (icddr,b) in Bangladesh. Investigators include Khalid M. Khan, DrPh. and David M. Kocejka, Ph.D from Indiana University and Mohammad Zahirul Islam, PhD from the icddr,b.
- The study investigated:
 - 1) How climate change-induced (i.e. agrochemical use and water salinity) public health challenges (diseases associated with these two types of exposures) drive individuals and community groups to switch to an adaptive strategy and how decisions are made at the household and community levels for implementation of this strategy.
 - 2) If agrochemical and salinity exposures are associated with various diseases at the household level.
 - 3) If agrochemical exposure is associated with specific neurological outcomes in a subset of adult participants.
- Contribution to the study includes completion and editing of IRB documents, questionnaire survey development, data analysis, and writing of manuscripts.
- The study is funded through the Indiana University Collaborative Research and Creative Activity (CRCA) grant.

Graduate Research Assistant, Indiana University

2015-2017

Feasibility of a low-cost hearing screening and assessment of hearing health in rural Indiana

- The study was conducted by Khalid M. Khan, DrSc and Priscilla A. Barnes, Ph.D of the School of Public Health at Indiana University
- The study included participants that had occupational and non-occupational exposure to loud noise and examined:
 - The feasibility of a low-cost telephone screening program known as National Hearing Test (NHT)

- The levels of knowledge, attitude, and beliefs about hearing health
- Current hearing health status among the participants.
- Contribution of the study includes data collection, data analysis, and writing of manuscripts and conference presentations.
- The study was funded through an internal grant through Indiana University School of Public Health

Project Director and Graduate Research Assistant, Indiana University

2014-2015

Human hair and nail analyses as non-invasive biomarkers of exposure to brominated and organophosphate flame retardants

- The study was conducted as collaboration between researchers in the School of Public and Environmental Affairs (SPEA) and the School of Public Health (SPH) at Indiana University, Bloomington. Investigators included Ronald Hites, Ph.D., and Amina Salamova, Ph.D. from SPEA and Ka He, MD, ScD, from SPH.
- The study investigated the relationship between the levels brominated and organophosphate flame retardants in blood, head hair, and finger- and toenails in order to develop head hair and nails analyses as human biomarkers to flame retardants exposure.
- Contribution to the study included completion of IRB documents, recruitment and scheduling subjects, data collection including obtaining informed consent, administering a questionnaire, and collecting blood, hair, and nail samples from each subject.
- The study was funded by Indiana University

Graduate Researcher Assistant and Phlebotomist, Indiana University

2012-2013

Prolonged sitting, oxidative stress and vascular function

- The study was part of Saurabh Thosar's doctoral dissertation. The study looked effects of prolonged sitting on oxidative stress measures and vascular function via flow-mediated dilation (FMD). Breaking sitting time and vitamin C supplementation were also used in the design as interventions.
- Contribution to the study included collecting and analyzing blood samples along with contributing to the scientific thought and writing of manuscripts.
- The study was funded through ACSM Foundation Doctoral Student Research grant awarded to Saurabh Thosar.

Master's Thesis, Indiana University

2011-2013

Postprandial lipemia, oxidative stress, and endothelial function: a dose response

- The study looked at the dose response nature of high-fat meals as it relates to changes in blood triglycerides, oxidative stress and endothelial function as measured by plasma triglycerides, nitrotyrosine, and flow-mediated dilation (FMD), respectively

Graduate Researcher and Project Design Assistant, Indiana University 2011-2012

Diabetes treatments targeting postprandial endothelial dysfunction reduce CVD risk with GLP-1 and physical activity

- This research looked at the difference between using a GLP-1 and physical activity as treatments to target postprandial endothelial dysfunction in diabetic patients. An increase in postprandial endothelial dysfunction leads to a higher CVD risk. If this aspect could be controlled, either with GLP-1 or physical activity, the risk for CVD in diabetic patients could be reduced.
- The study was funded through the Indiana Clinical and Translational Sciences Institute (CTSI).
- Study was not completed due to logistical complications

Senior Thesis, Hanover College 2008-2009

Identification of the anaerobic threshold as a percentage of VO₂ max through a variety of physiological indicators.

- This research looked at the anaerobic threshold of individuals to see which physiological indicators can reliably predict the anaerobic threshold.
- Research presented at the Butler Undergraduate Research Conference, Indianapolis, IN, March 2009

TEACHING EXPERIENCE

Assistant Professor, Taylor University

August 2018-present

Undergraduate level course

PBH 100 INTRODUCTION TO PUBLIC HEALTH

- Required course for the Public Health major and can serve as an elective for students wishing only to be introduced to the field. Topics covered in this course include: general overview of the field, historical perspective on the role that public health has played in improving the health status of populations, both in the US and globally, environmental, social, and behavioral determinants of health, health disparities, and explore the core disciplines of public health including epidemiology, biostatistics, environmental health, policy and administration, and the social and behavioral sciences

Courses taught:

- Fall 2018 (2 sections, 36 students)
- J-term 2019 (1 section, 15 students, 5 visiting students from KWCS in Korea)
- Spring 2019 (2 sections, 38 students)
- Fall 2019 (2 sections, 41 students)

PBH 320 EPIDEMIOLOGY

- Required course for the Public Health major. This class will cover the study of the distribution and determinants of disease occurrence, including core concepts such as incidence, prevalence, risk, risk factors, relative risk, attributable risk, sensitivity, specificity, and different types of epidemiologic study designs. Students will use data from epidemiologic case studies to calculate

odds ratios, relative risk and confidence intervals as well as calculate sensitivity and specificity of screening tests.

Course taught:

- Spring 2019 (18 students)

PBH 335 ENVIRONMENTAL HEALTH

- Required course for the Public Health major. This course explores how both the natural and built environment affect human health by looking at the impact of physical, chemical, biological, and socioeconomic factors external to humans. Environmental health is an interdisciplinary field that focuses on the theory and practice of recognizing, assessing, controlling, and preventing environmental and occupational hazards that may adversely affect the health of the present and future generations.

Course taught:

- Fall 2019 (6 students)

Guest lectures at Taylor University

SUS 201/221 SUSTAINABLE DEVELOPMENT

- Topic: Environmental Health and Environmental Justice
- Fall 2018

EXS 346 COMMUNITY HEALTH EDUCATION

- Topic: Hearing conservation education for high school agriculture workers
- Spring 2019

Associate Instructor, Indiana University

August 2010-May 2018

- Taught the courses listed below as a teaching assistant or as the instructor of record (*)

Graduate level courses

SPH V541 ENVIRONMENTAL HEALTH

- Required core course for the Master's in Public Health (MPH) degree. Topics covered in this course included: environmental epidemiology, toxicology, risk assessment, management and communication, environmental GIS, food safety and sanitation, food borne diseases, zoonotic and vector-borne diseases, occupation health and safety, regulation/law and environmental justice, indoor/outdoor air pollution, water quality and waste management

Course taught:

- Fall 2014 (1 section, 58 students)

Undergraduate level courses

SPH V351 FOUNDATIONS OF ENVIRONMENTAL HEALTH

- Course was designed to introduce the student to the many varied areas of Environmental Health and demonstrate the important role this field plays in Public Health. Topics covered in this course

included: defining environmental health, influence of the environment, toxicology, exposure assessment, epidemiology, indoor/outdoor air pollution, environmental regulations, global environmental health, food safety, drinking water, vectors, radiation, liquid wastes and solid waste.

Course taught:

- Fall 2015 (1 section, 36 students)

SPH K409 BASIC PHYSIOLOGY OF EXERCISE*

- Provided the student with an opportunity to obtain “hands on” practice and skills in the methodologies and techniques used in Exercise Physiology. Topics covered in this course included: muscular strength (isokinetic), anaerobic power and capacity, predicted maximal oxygen uptake, exercise ventilation and lactate measurement, maximal oxygen consumption, blood pressure (resting and exercise), resting and residual lung volumes, hydrostatic weighing, and anthropometrics (skinfold, BMI, and BIA).

Lab sections taught:

- Fall 2013 (1 section, 12 students)
- Spring 2014 (1 section, 12 students)

SPH I119 PERSONAL FITNESS (previously HPER E119)*

- Offers evidence-based instruction on the health-related fitness components: muscular strength and endurance, flexibility, cardiorespiratory endurance, and neuromuscular movement. The course has two components: 1) a weekly discussion on fitness concepts and 2) regular lab/movement sessions where these concepts are applied and implemented. Topics covered in this course include: understating fitness and wellness, general principles of exercise for health and fitness, cardiorespiratory endurance, improving muscular strength and endurance, improving flexibility, creating your total fitness and wellness plan, nutrition, health and fitness, and body composition.

Lecture sections taught:

- Fall 2011 (1 section, 64 students)
- Fall 2017 (1 section, 134 students)
- Spring 2018 (1 section, 117 students)

Lab sections taught:

- Fall 2010 (2 sections, 78 students)
- Spring 2011 (2 sections, 80 students)
- Fall 2011 (1 section, 40 students)
- Spring 2012 (1 section, 38 students)
- Fall 2016 (2 section, 52 students)
- Spring 2017 (2 sections, 51 students)
- Fall 2017 (1 section, 36 students)
- Spring 2018 (2 section, 59 students)

SPH I159 RACQUETBALL (previously HPER E159)*

- Instruction in basic skills for beginning racquetball players including the proper use of equipment, basic shots, rules and etiquette, service and returns, and game strategies. Topics covered in this

course include: basic rules of racquetball, racket grip, basic forehand and backhand stroke, serves (lob and drive), offensive and defensive shots (including side/ceiling/back wall shots), and game strategies

Courses taught:

- Fall 2010 (2 sections, 44 students)
- Spring 2011 (2 sections, 40 students)
- Fall 2011 (3 sections, 52 students)
- Spring 2012 (3 sections, 47 students)
- Fall 2012 (3 sections, 45 students)
- Spring 2013 (4 sections, 71 students)
- Fall 2013 (2 sections, 36 students)
- Spring 2014 (2 sections, 34 students)
- Spring 2017 (3 sections, 33 students)
- Fall 2017 (2 sections, 20 students)
- Spring 2018 (1 section, 16 students)

Guest Lectures at Indiana University, School of Public Health

2017-2018

I 119 PERSONAL FITNESS

- Topics: nutrition, health, and fitness
- Fall 2017-Spring 2018
- 2 sections in fall: 280 students; 2 sections in spring: 221 students

FULBRIGHT FACULTY SCHOLARS PROGRAM

- Topic: Development of a Student Association with Fulbright Visiting Scholars from Egypt as part of a collaborative effects between the faculty at Indiana University and the faculty members from Egypt
- August 2017
- 8 Fulbright Faculty Scholars

Mentoring of Undergraduate Sustainability Scholar

February 2016-May 2017

- Mentored two undergraduate students from the 2020 Sustainability Scholar program through the School of Public and Environmental Affairs (SPEA) under the supervision of Dr. Khalid Khan.
- Taught data analysis techniques (mean, standard deviation, t-test, χ^2 test, etc.) on SPSS, research techniques (i.e. how to find scholarly articles, proper citation, etc.) and assisted on development of a poster from research project. The Sustainability Scholar for the 2016-2017 school year is also assisting with research related to my dissertation

PROFESSIONAL SERVICE

School of Public Health Student Government, Bloomington, IN

President

May 2016-May 2018

- Responsibilities include: 1) schedule and preside over all general and Council meetings, 2) serve as a liaison to the SPH-B SG faculty advisors and staff, including attending faculty meetings and

any other relevant meetings as appropriate, 3) supervise SPH-B SG leader positions and coordinate activities in conjunction with the executive officers, 4) assure leader positions are filled, 5) meet regularly with the Faculty Advisors, 6) coordinate budget with the Treasurer, 7) attend SPH-B SG-wide meetings, and 8) coordinate with the Faculty Advisors, Dean, and relevant contacts to ensure compliance with the SPH-B SG policies at all times.

- Organized and hosted the New Graduate Student Orientation and Fair during Welcome Week in conjunction with the Dean's office (August 2016 and 2017).
- Created and established a Student Government Conference Recognition Award (2017-2018) to provide recognition and funding for student traveling to national/international conferences to present their research or for professional development.

Treasurer

May 2015-May 2016

- Responsibilities included: 1) representing the Student Government all finance committees, 2) maintained an accurate accounting system of all revenues and expenditures, including coordinating reimbursement activities, maintaining monthly financial statements, and maintaining a positive working relationship with the Dean's office to conduct monetary correspondences, 3) aid in developing a budget for the following year in conjunction with the President, 4) review any monetary requests by student organizations and report them to the President for review and approval by SPH-B SG and the Faculty Advisor, 5) report to the SPH-B SG the budget balances on a regular basis, 6) assist committee members with paperwork to procure funds and 7) supervise and conduct merchandise sales and ordering as needed.

Student Representative on the Academic Council Standing Committees, Bloomington, IN

Graduate Studies Committee

August 2016-May 2018

- Charge of this committee include: responsible for review of all matters pertinent to graduate education and recommends new policies as well as significant changes to existing policies to the Academic Council for action including matters as: 1) new curricula and degrees as well as changes to existing curricula and degrees, 2) interdisciplinary curricula and interdepartmental course, 3) standards and procedures for admission into each of the various majors in the school, and 4) other graduate and curriculum and academic policy matters. As a core function, the committee contributes to the evaluation and planning activities of the school on matter related to graduate studies
- Advised the committee in giving a student prospective relating to various matters pertaining to graduate curricula and students and relay information between the committee, Student Government, and the student body of the school.

Committee on Research and Creative Activities

August 2015-May 2016

- Charge of this committee included: providing leadership to the school on matters related to the school's research and creative activity portfolio, and the policies and procedures related to the conduct and dissemination of research and creative activity by faculty, staff, and students. This committee also leads the school's internal mechanisms to make investments in research and creative activity efforts by faculty, staff, and students. As a core function, this committee contributes to the evaluation and planning activities of the school to ensure attainment of the

school's goals and objectives related to research and creative activity and assisting faculty in the process of evaluation, and principally the process of tenure and promotion.

- Aided the committee by providing a student prospective towards research related matters and relayed information between the committee, Student Government, and the student body of the school.

Committee on Budget and Planning

August 2015-May 2016

- Charge of this committee included: providing consultative leadership to the school's Presiding Officer (Dean of the School) and chairs of department in order to help ensure that the school monitors and plans for the assurance of the financial resources necessary to fulfill the school's mission, goals, and objectives. This committee contributes to the evaluation and planning activities of the school, specifically regarding the adequacy of the school's fiscal resources and the school's performance against the schools fiscal objectives.
- Served as a voting member of the committee and relayed information between the committee, Student Government, and the student body of the school
- Advocated for increased graduate student funding, specifically graduate assistantships along with research and travel grants to become comparable to other programs within the University.

Indiana University Graduate and Professional Student Government, Bloomington, IN

Student Representative for the School of Public Health

October 2016-May 2018

- Operates as the official university-sponsored student government for all graduate and professional students across all Indiana University-Bloomington schools and departments. GPSG serves over 10,000 graduate and professional students by providing advocacy, academic support, community building and access to resources.
- Addresses matters pertaining to the general academic, professional, and social climate of IUB and the City of Bloomington as they affect the life and well-being of the graduate and professional student population.
- Serves as a voting member of GPSG and relays information between GPSG, SPH Student Government, and the student body of the school.

Society of Toxicology (SOT) Paper of the Year

Reviewer July 2017-January 2018

- Reviewed manuscripts for the Occupational and Public Health Specialty Section (OPHSS) of SOT to determine the paper of the year award for 2018. The award will be presented to the winner at the SOT annual meeting in March 2018.

PEER-REVIEWED PUBLICATIONS

1. Thosar, SS, **Bielko, SL**, Wiggins, CC, & Wallace, JP. (2014). Differences in brachial and femoral artery responses to prolonged sitting. *Cardiovascular Ultrasound*, 12(1), 50.

2. Thosar, SS, **Bielko, SL**, Mather, KJ, Johnston, JD, & Wallace, JP. (2014). Effect of Prolonged Sitting and Breaks in Sitting Time on Endothelial Function. *Medicine and Science in Sports and Exercise*, 47(4), 843-849.
3. Thosar, SS, **Bielko, SL**, Wiggins, CC, Klaunig, JE, Mather, KJ, & Wallace, JP. (2015). Antioxidant Vitamin C Prevents Decline in Endothelial Function during Sitting. *Medical Science Monitor*, 21, 1015-1021.
4. Khan, KK, Evans, SS, **Bielko, SL**, & Rohlman, DS, (2017). Efficacy of technology-based interventions to increase the use of hearing protections among adolescent farmworkers. *International Journal of Audiology*, 1-11.
5. Khan, KK, **Bielko, SL**, Barnes, PA, Evans, SS, & Main, ALK, (2017) Feasibility of a low-cost hearing screening in rural Indiana. *BMC Public Health*, 17(1), 715.
6. Khan, KK, **Bielko, SL**, & McCullagh, MC, (2018). Efficacy of hearing conservation education programs for youth and young adults: a systematic review. *BMC Public Health*, 18(1), 1286.

PUBLICATIONS IN REVIEW OR PREPARATION

1. **Bielko, SL**, Thosar, SS, Wiggins, CC, and Wallace, JP. *Isocaloric high-fat meals over 25% impair endothelial function in inactive men*. Preparing for submission to *Applied Physiology, Nutrition and Metabolism*,
2. **Bielko, SL**, Khan, KM, and Weigel, MM. *Perception, attitude, and knowledge on hearing health and conservation among youth from Indiana*. Preparing for submission to *Journal of Agricultural Safety and Health*.
3. **Bielko, SL**, Khan, KM, and Weigel, MM. *Hearing conservation using noise-measuring smartphone app to improve the use of hearing protection among high school farmworkers*. Preparing for submission to the *International Journal of Audiology*.

CONFERENCE PRESENTATIONS

1. **Bielko, SL**. (2008). *Internship Experience at Matthew 25 Health and Dental Clinic*. Presentation was given to faculty and students on my internship at Matthew 25.

2. **Bielko, SL.** (2009, March). *Identification of the anaerobic threshold as a percentage of VO₂ max through a variety of physiological indicators.* Poster presentation presented at the Butler Conference for Undergraduate Research, Indianapolis, IN.

3. Thosar, SS., **Bielko, SL.**, and Johnston, JD. (2013, May). *Multifaceted pedometer program results in favorable changes in sitting time, physical activity, and weight.* Poster presentation presented at the American College of Sports Medicine (ACSM) annual conference, Indianapolis, IN.

4. Thosar, SS., **Bielko, SL.**, Wiggins, CC., Mather, KJ., and Wallace, JP. (2014, April). *Oral vitamin C prevents the attenuation in flow mediated dilation during prolonged sitting.* Abstract published by the Federation of American Societies for Experimental Biology (FASEB) and poster presented at the American Association of Anatomists (AAA) annual conference, San Diego, CA.

5. Wiggins, CC., Thosar, SS., Gorczyca, AM., **Bielko, S.L.**, and Wallace, JP. (2014, May). *Can exercise attenuate endothelial dysfunction for two consecutive high-fat meals?* Abstract published and poster presented at the American College of Sport Medicine (ACSM) annual conference, Orlando, FL.

6. Thosar, SS., **Bielko, SL.**, Wiggins, CC., Mather, KJ., and Wallace, JP. (2014, May). *Can breaking up sitting time alter femoral artery endothelial function?* Abstract published and thematic poster presented at the American College of Sport Medicine (ACSM) annual conference, Orlando, FL.

7. Wallace, JP., **Bielko, SL.**, Wiggins, CH., Mather, KJ., and Thosar, SS. (2014, May). *Does brachial artery endothelial function represent the endothelial function during prolonged sitting?* Abstract published and thematic poster presented at the American College of Sports Medicine (ACSM) annual conference, Orlando, FL.

8. **Bielko, SL.**, Thosar, SS., Wiggins, CC., Gorczyca, AM., and Wallace, JP. (2014, May). *Choosing the lipid dose for postprandial endothelial function and exercise.* Abstract published and poster presented at the American College of Sport Medicine (ACSM) annual conference, Orlando, FL.

9. Salmova, A., Liu, LY., **Bielko, SL.**, He, K., and Hites, R. (2014, November). *Organophosphate and brominated flame retardants in human hair and nails.* Presentation presented at the Society of Environmental Toxicology and Chemistry (SETAC) North American Annual Meeting, Vancouver, BC, Canada.

10. **Bielko, SL.**, Strader, SM., Aryal, A., Barnes, PA., and Khan, KM. (2016, September). *Feasibility of a low-cost hearing screening and assessment of hearing in rural Indiana*. Abstract published and poster presented at the Indiana Clinical and Translational Sciences Institute (CTSI) Annual Meeting, Indianapolis, IN.

11. Well, PB., **Bielko, SL.**, and Khan, KK. (2017, May). *Sustainable Hearing Prevention for College Students in Indiana*. Poster presented at the Indiana University School of Public and Environmental Affairs (SPEA) Sustainability Scholars symposium.

12. Khan, KK, McCullagh, MC, and **Bielko, SL.** (2018, February). *Hearing health education programs for rural youth: lessons learned from recent studies*. Abstract published and poster presented at the National Hearing Conservation Association (NHCA) Annual Meeting, Orlando, FL.

13. **Bielko, SL** and Khan, KK. (2018, February). *Perception, attitude, and knowledge of hearing health among two groups of young farmworkers from rural Indiana*. Abstract published and poster presented at the National Hearing Conservation Association (NHCA) Annual Meeting, Orlando, FL.

14. Khan, KK, **Bielko, SL**, and McCullagh MC. (2019, February). *Use of Technology in Hearing Protection Educational Interventions among Youth: Lessons Learned from Recent Studies*. Abstract published and speaking presentation at the National Hearing Conference Association (NHCA) Annual Meeting, Grapevine, TX.

GRANTS

University Graduate School Grant-in-Aid for Doctoral Research Fall 2016

- Received \$1000 Grant-in-Aid towards the cost of my Dissertation

School of HPER Student Research Grant, Indiana University Spring 2012

- Received \$1000 Research Grant towards the cost of my Master's Thesis

School of HPER Fellowship Grant, Indiana University Spring 2010

- A personal grant awarded to me from the Department of Kinesiology in the School of HPER at Indiana University

Intensive Inquiry, Hanover College Fall 2007

- Wrote proposal for funding to visit St. Jude Children’s Research Hospital in Memphis, TN.
- Met with Dr. Suzanne Gronemeyer and discussed her personal research in pediatric oncology at St. Jude.
- Toured the research facilities and learned about St. Jude’s various research and clinic trials.

Intensive Inquiry, Hanover College Spring 2007

- Wrote proposal for funding to visit the “Body World” exhibit at the Museum of Science and Industry in Chicago, IL.
- Researched and learned about the plastination process of preserving the detail of the body.
- Viewed the exhibit and discussed the detail of the cadavers.

PROFESSIONAL AFFILIATIONS

- American Public Health Association (APHA) 2015-present
- National Hearing Conservation Association (NHCA) 2017-present
- Indiana Public Health Association (IPHA) 2017-present
- American College of Sports Medicine (ACSM) 2012-2018
- Society of Toxicology (SOT) 2015-2018