

Mark Wilson, DC, PhD

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EDUCATION

University of Illinois at Chicago, Chicago, IL

School of Public Health

Doctor of Philosophy, Environmental and Occupational Health

May 2019

National University of Health Sciences, Lombard, IL

Doctor of Chiropractic

December 2011

Purdue University, West Lafayette, IN

School of Technology

Associate of Science Degree in Organizational Leadership and Supervision

May 2001

School of Health Sciences

Bachelor of Science, Emphasis in Industrial Hygiene

December 2002

Master of Science, Occupational and Environmental Health

August 2006

PROFESSIONAL EXPERIENCE

Purdue University

2015 – Present

Clinical Assistant Professor, School of Health Sciences August 2021 - Present

- Occupational and Environmental Health Sciences
- Biomedical Health Sciences

Limited-term Lecturer, School of Health Sciences

August 2015 – August 2021

Limited-term Lecturer, Biological Sciences Department, Northwest Campus

August 2018 – May 2020

- Instructor for an online course, HST 305 – Occupational Safety and Health
- Developed course objectives, lecture material, and assignments from a catalog description provided by the Department.

Ivy Tech Community College of Indiana

2013 – Present

Adjunct Faculty August

August 2013 – Present

- Courses instructed: Human Anatomy & Physiology I, Human Anatomy & Physiology II, Introduction to Biology
- Continually modify course structure to help improve student learning.
- Deliver lectures, supervise laboratory sessions, and develop assessment materials
- Served as intercession advisor

University of Saint Francis / St. Elizabeth School of Nursing

2018

Adjunct Faculty

January 2018 – May 2018

- Instructor for Human Anatomy & Physiology II
- Deliver lectures and conducted laboratory sessions.
- Develop assessment materials.

Morton College 2013

Adjunct Faculty August 2013 – December 2013

- Instructor for Human Anatomy & Physiology
- Developed lecture material, class notes, assignments, and exams.

National University of Health Sciences

2009-2011

Research Assistant – Research Department August 2009 – December 2011

- Analyzed traumatic injury data used for presentation at a national conference

Tutor – Office of Student Services August 2009 – December 2011

- Tutored individuals and/or small groups over lectures and laboratory material for Cardio-Respiratory & Renal Physiology, Cell Physiology, and Physical Diagnosis.

Indiana Department of Transportation

2006 – 2008

Employee Safety Specialist

June 2006 – August 2007

- Served as assistant to the Agency-wide Safety Director.
- Generated periodic statistical reports to illustrate safety performance.
- Performed data analysis identifying injury & accident trends and risk factors.
- Evaluated injury causation factors and recommended mitigation strategies.
- Conducted Hazard Assessments for Industrial Hygiene and Safety related issues.
- Acted upon health and safety complaints and presented findings and recommendations for abatement.
- Provided direction and expertise on the Department's accident reporting system and ensured the reports are updated and accurate. Spearheaded improvements to the system and coordinated with information technology staff to implement the changes.
- Developed safety education courses and assessment methods for an Agency-wide employee training academy.
- Served as safety manager for the Agency Central Office.

Interim Assistant Deputy Commissioner for Safety

August 2007 – January 2008

- Agency-wide Health and Safety Director.
- Developed Safety policies, procedures, programs, and provided leadership to the organization's statewide safety program.
- Directed monthly meetings of the district safety directors to formulate the agency's overall health and safety policies.
- Served as the chief advisor and primary representative on safety matters that impacted the organization's interest and operations.
- Developed and introduced strategies designed to prevent accidents and injuries.
- Provided leadership, direction and technical advice to the District Safety Directors to ensure a coordinated statewide safety effort.
- Monitored and tracked the agency's overall safety performance utilizing trend analysis and other metrics to identify and correct adverse safety conditions.
- Led monthly safety meetings involving upper management in which injuries and corresponding corrective action for each month were discussed.

Purdue University

Aug. 2003 – May 2006

Graduate Teaching Assistant – Department of Biological Sciences

- Led and supervised laboratory sections.
- Lecture to the class about the weekly material and lab process.
- Assist students with questions/problems about the lab.
- Conduct open labs to assist students with homework/study questions
- Instructor for Nursing NEXUS Learning Community.

HONORS/AWARDS

- Purdue University – Dean's List, Semester Honors
- National Institute for Occupational Safety and Health – Education and Research Center Trainee Fellowship in Industrial Hygiene, January 2012.

ACTIVITIES

- City of Lafayette, Indiana – Bike/Pedestrian Advisory Committee member, June 2018 – present.
- Physiotherapy Evidence Database – Volunteer publications rater, August 2011 – December 2012.
- Journal of Occupational and Environmental Medicine – Invited reviewer, July 2015.
- National University of Health Sciences – Mentored Research Program, fall 2009.
- Purdue Health Center Advisory Board – Past President, 2004.
- Purdue Graduate Student Government – Senator for the School of Health Sciences, 2005.

LICENSES/CERTIFICATIONS

- Licensed Chiropractor – State of Indiana, February 2012
- Advanced Safety Certificate – National Safety Council , 2007
- OSHA 10-hour General Industry, 2006
- OSHA 10-hour Construction, 2006

PROFESSIONAL MEMBERSHIPS

- American Society of Safety Professionals
- American Industrial Hygiene Association
 - Museum and Cultural Heritage Industry working group member

PUBLICATIONS

- **Wilson MD**, Conroy LM, Dorevitch S. Occupational stress and subclinical atherosclerosis: a systematic review. Int J Occup Environ Health 2014 Oct;20(4):271-280.
- **Wilson M**, Conroy L. The effects of acute and chronic stress on cardiac function. Occup Environ Med. 2014 Jun;71 Suppl 1:A76.
- Charles LE, Andrew ME, Sarkisian K, Shenggio L, Mnatsakanova A, Violanti JM, **Wilson M**, Gu J,K, Miller DB, Burchfiel CM. Associations between insulin and heart rate variability in police officers. Am J Hum Biol, 2014 Jan-Feb, 26(1): 56-63.

- **Wilson, Mark D.**, McGlothlin, James D., Rosenthal, Frank S., Black David R., Zimmerman, Neil J., Bridges C. David. 'Ergonomics', The effect of Occupational Exposure to Environmental Tobacco Smoke on the Heart Rate Variability of Bar and Restaurant Workers. *Journal of Occupational and Environmental Hygiene*, 7:7, D44-49, July 2010.
- **Wilson, Mark D.**, Prasad, Kaushal A., Kim, Jong S., Park, Jae H. (2019). Characteristics of metallic nanoparticles emitted from heated Kanthal e-cigarette coils. *Journal of Nanoparticle Research*, 21:156. DOI : 10.1007/s11051-019-4598-y.

PRESENTATIONS

- **Wilson, M.D.**, Prasad, K.A., Park, J.H., Characteristics of nanoparticles emitted from metallic coils used in electronic cigarettes, The HSPH/NIEHS Center for Environmental Health Metals Core Symposium at Harvard T.H. Chan School of Public Health, 2018, 06.14-06.15, Boston, MA.
- **Wilson, Mark**, Conroy, Lorraine. Cardiovascular Effects of Work-Related Stress in Working Women. Presented at The American Industrial Hygiene Association Conference and Exposition, May 30-June 4, 2014, San Antonio, TX.
- **Wilson, Mark**, Conroy, Lorraine. The Effect of Mental Stress on Cardiac Function. Presented at The American Industrial Hygiene Association Conference and Exposition, May 31-June 5, 2014, San Antonio, TX.
- **Wilson, Mark**, Forst, Linda. Characterization of Traumatic Injuries due to Falls in Younger and Older Populations. Presented at Safety 2011 ASSE Professional Development Conference and Exposition, June 12-15, 2011, Chicago, IL.